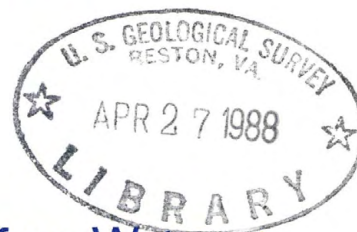


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# Water Resources Data Florida Water Year 1986



Volume 2A. South Florida Surface Water



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT FL-86-2A  
Prepared in cooperation with the State of Florida  
and with other agencies



October 1, 1978

## FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

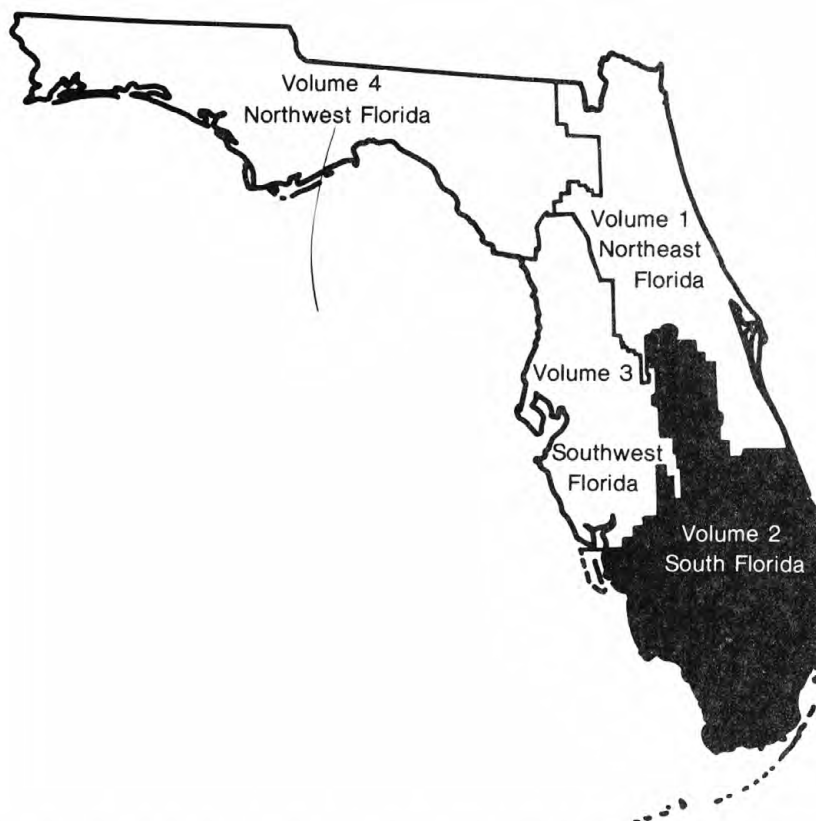
| Multiply inch-pound units                  | By                     | To obtain SI units                               |
|--------------------------------------------|------------------------|--------------------------------------------------|
| <i>Length</i>                              |                        |                                                  |
| inches (in)                                | $2.54 \times 10^1$     | millimeters (mm)                                 |
|                                            | $2.54 \times 10^{-2}$  | meters (m)                                       |
| feet (ft)                                  | $3.048 \times 10^{-1}$ | meters (m)                                       |
| miles (mi)                                 | $1.609 \times 10^0$    | kilometers (km)                                  |
| <i>Area</i>                                |                        |                                                  |
| acres                                      | $4.047 \times 10^3$    | square meters (m <sup>2</sup> )                  |
|                                            | $4.047 \times 10^{-1}$ | square hectometers (hm <sup>2</sup> )            |
|                                            | $4.047 \times 10^{-3}$ | square kilometers (km <sup>2</sup> )             |
| square miles (mi <sup>2</sup> )            | $2.590 \times 10^0$    | square kilometers (km <sup>2</sup> )             |
| <i>Volume</i>                              |                        |                                                  |
| gallons (gal)                              | $3.785 \times 10^0$    | liters (L)                                       |
|                                            | $3.785 \times 10^0$    | cubic decimeters (dm <sup>3</sup> )              |
|                                            | $3.785 \times 10^{-3}$ | cubic meters (m <sup>3</sup> )                   |
| million gallons                            | $3.785 \times 10^3$    | cubic meters (m <sup>3</sup> )                   |
|                                            | $3.785 \times 10^{-3}$ | cubic hectometers (hm <sup>3</sup> )             |
| cubic feet (ft <sup>3</sup> )              | $2.832 \times 10^1$    | cubic decimeters (dm <sup>3</sup> )              |
|                                            | $2.832 \times 10^{-2}$ | cubic meters (m <sup>3</sup> )                   |
| cfs-days                                   | $2.447 \times 10^3$    | cubic meters (m <sup>3</sup> )                   |
|                                            | $2.447 \times 10^{-3}$ | cubic hectometers (hm <sup>3</sup> )             |
| acre-feet (acre-ft)                        | $1.233 \times 10^3$    | cubic meters (m <sup>3</sup> )                   |
|                                            | $1.233 \times 10^{-3}$ | cubic hectometers (hm <sup>3</sup> )             |
|                                            | $1.233 \times 10^{-6}$ | cubic kilometers (km <sup>3</sup> )              |
| <i>Flow</i>                                |                        |                                                  |
| cubic feet per second (ft <sup>3</sup> /s) | $2.832 \times 10^1$    | liters per second (L/s)                          |
|                                            | $2.832 \times 10^1$    | cubic decimeters per second (dm <sup>3</sup> /s) |
|                                            | $2.832 \times 10^{-2}$ | cubic meters per second (m <sup>3</sup> /s)      |
| gallons per minute (gal/min)               | $6.309 \times 10^{-2}$ | liters per second (L/s)                          |
|                                            | $6.309 \times 10^{-2}$ | cubic decimeters per second (dm <sup>3</sup> /s) |
|                                            | $6.309 \times 10^{-5}$ | cubic meters per second (m <sup>3</sup> /s)      |
| million gallons per day                    | $4.381 \times 10^1$    | cubic decimeters per second (dm <sup>3</sup> /s) |
|                                            | $4.381 \times 10^{-2}$ | cubic meters per second (m <sup>3</sup> /s)      |
| <i>Mass</i>                                |                        |                                                  |
| tons (short)                               | $9.072 \times 10^{-1}$ | megagrams (Mg) or metric tons                    |





# Water Resources Data Florida Water Year 1986

Volume 2A. South Florida Surface Water  
by W.J. Haire, C. Price, R.E. Curtis and C. Lietz



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT FL-86-2A  
Prepared in cooperation with the State of Florida  
and with other agencies



UNITED STATES DEPARTMENT OF THE INTERIOR

DONALD PAUL HODEL, Secretary

GEOLOGICAL SURVEY

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Prepared in cooperation with the  
State of Florida  
and with other agencies as listed  
under cooperation

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PREFACE

This volume of the annual hydrologic data report of Florida is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for Florida are contained in four volumes.

Volume 1. Northeast Florida  
Volume 2. South Florida  
Volume 3. Southwest Florida  
Volume 4. Northwest Florida

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data. This report was prepared for publication by E. C. Price and N. D. Verjano under the supervision of W. J. Haire. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data.

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This report was prepared in cooperation with the State of Florida and with other agencies under the general supervision of I. H. Kantrowitz, District Chief, Florida.

Hydrologic data for south Florida are contained in two volumes:

Volume 2A: Surface Water  
Volume 2B: Ground Water



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                            |                                                         |                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------|
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| <b>16. Abstract (Limit: 200 words)</b><br><p>Water resources data for the 1986 water year in Florida consists of continuous or daily discharge for 277 streams, periodic discharge for 38 streams, miscellaneous discharge for 34 streams, continuous or daily stage for 77 streams, periodic stage for 20 streams, peak discharge for 88 streams and peak stage for 69 streams; continuous or daily elevations for 69 lakes, periodic elevations for 72 lakes; continuous ground-water levels for 476 wells, periodic ground-water levels for 1,226 wells, and miscellaneous water level measurements for 1,570 wells; quality of water data for 188 surface-water sites and 878 wells.</p> <p>The data for south Florida include continuous or daily discharge for 71 streams, periodic discharge for 5 streams, peak discharge for 2 streams, continuous or daily stage for 23 streams, periodic stage for 2 stream, peak discharge for 6 streams, and peak stage for 2 streams; continuous elevations for 14 lakes, and periodic elevations for 5 lakes; continuous ground-water levels for 198 wells, periodic ground-water levels for 806 wells, and miscellaneous water-level measurements for 259 wells; quality-of-water for 38 surface-water sites and 511 wells.</p> <p>These data represent the National Water Data System records collected by the U.S. Geological Survey and cooperating local, state and federal agencies in Florida.</p> |                                            |                                                         |                                                                                                   |
| <b>17. Document Analysis a. Descriptors</b><br><p>*Florida, *Hydrologic data, *Surface Water, *Ground Water, *Water Quality, Flow rate, Gaging Stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water levels, Water analyses, Elevations, Water wells</p> <p><b>b. Identifiers/Open-Ended Terms</b></p> <p><b>c. COSATI Field/Group</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                            |                                                         |                                                                                                   |
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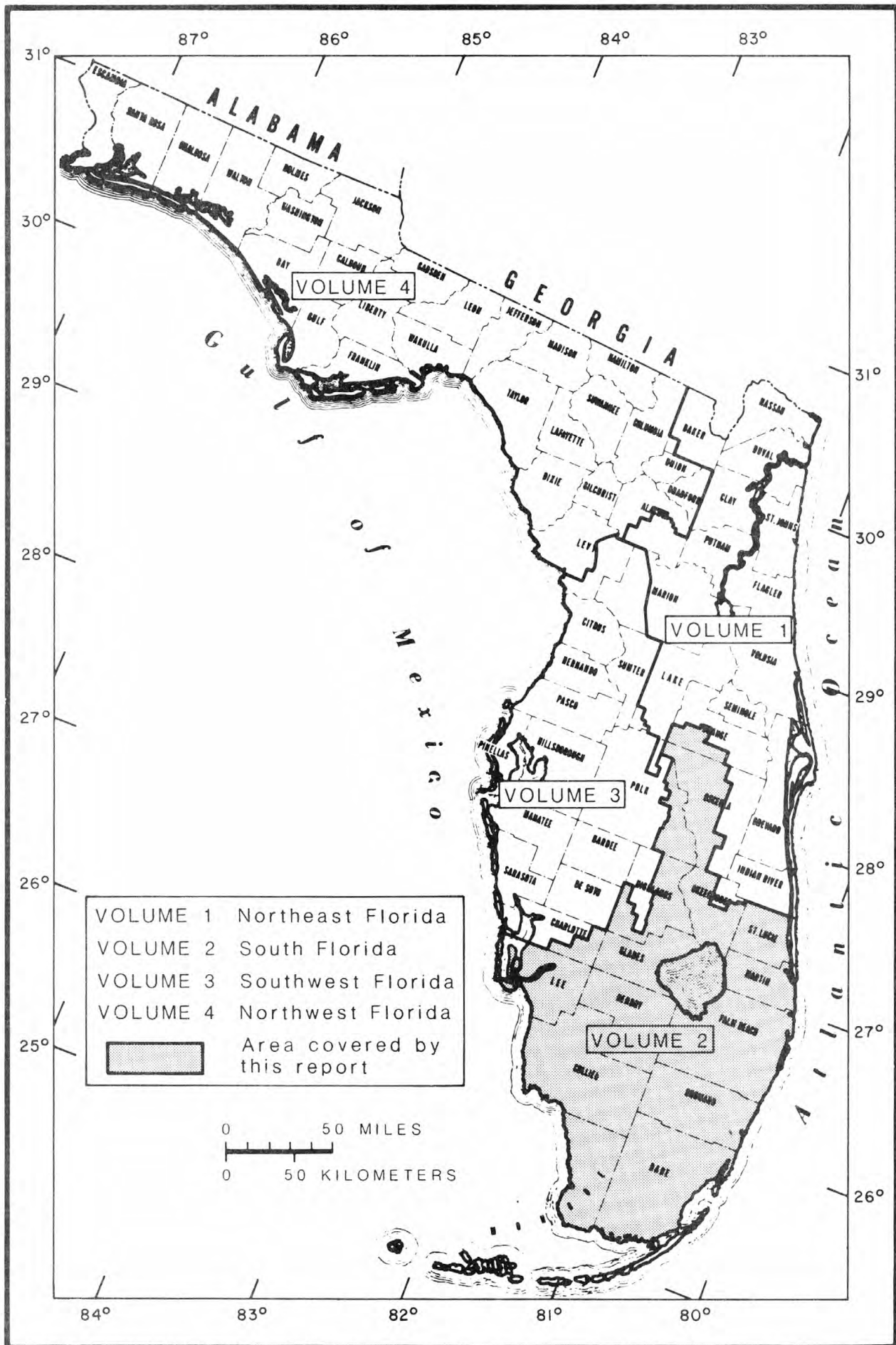


Figure 1. Geographic area covered by this report





WATER RESOURCES DATA FOR FLORIDA, 1986  
Volume 2A: South Florida

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IX

SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED  
[Letters after station names designate type of data: (d) discharge,  
(g) gage height, (b) biological, (q) quality, (e) elevation]

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**INTRODUCTION**

The Water Resources Division of the U.S. Geological Survey, in cooperation with State, County, and other Federal agencies, obtains a large amount of data pertaining to the water resources of Florida each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State.

The data for south Florida include continuous or daily discharge for 71 streams, periodic discharge for 5 streams, continuous or daily stage for 23 streams, periodic stage for 2 streams, peak discharge for 6 streams, and peak stage for 2 streams; continuous elevations for 14 lakes, periodic elevations for 5 lakes; continuous ground-water levels for 198 wells, periodic ground-water levels for 806 wells, and miscellaneous water-level measurements for 259 wells; quality-of-water data for 38 surface-water sites and 511 wells.

This series of annual reports for Florida began with the 1961 water year with a report that contained only data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that contained only data relating to water quality. Beginning with the 1975 water year, the report format was changed to present, in one volume, data on quantities of surface water, quality of surface and ground water, and ground-water levels.

Prior to introduction of this series and for several water years concurrent with it, water-resources data for Florida were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-Water Supply of the United States." For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States," and water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States." The above mentioned Water-Supply Papers may be consulted in the libraries of the principal cities of the United States and may be purchased from Distribution Branch, Text Products Section, U.S. Geological Survey, Books and Open-File Reports, Federal Center, Building 41, Box 25425, Denver, CO 80225.

Publications similar to this report are published annually by the Geological Survey for all States. These official Survey reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report FL-86-2A." For archiving and general distribution, the reports for 1971-74 water years also are identified as water-data reports. These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the Office Chief at the address given on the back of the title page or by telephone (305) 648-6191.

**COOPERATION**

The U.S. Geological Survey and agencies of the State of Florida have had cooperative agreements for the collection of water-resource records since 1930. Organizations that assisted in collecting the data in this report through cooperative agreement with the Survey are:

|                                                    |                                                        |
|----------------------------------------------------|--------------------------------------------------------|
| Big Cypress Basin Board                            | County of Palm Beach                                   |
| Broward County Environmental Quality Control Board | Florida Department of Environmental Regulation         |
| Broward County Utilities Division                  | Florida Department of Transportation                   |
| City of Boca Raton                                 | Florida Division of Parks and Recreation               |
| City of Cape Coral                                 | Florida Keys Aquaduct Authority                        |
| City of Fort Lauderdale                            | Miami-Dade Water and Sewer Authority                   |
| City of Hallandale                                 | National Aeronautics and Space Administration          |
| City of Hollywood                                  | National Park Service, U.S. Department of the Interior |
| City of Pompano Beach                              | Old Plantation Water Control District                  |
| City of Stuart                                     | Palm Beach County Solid Waste Authority                |
| Corps of Engineers, U.S. Army                      | Reedy Creek Improvement District                       |
| County of Brevard                                  | South Dade Soil and Waste Conservation District        |
| County of Broward                                  | South Florida Water Management District                |
| County of Dade                                     | Southwest Florida Water Management District            |
| County of Lake                                     | Town of Highland Beach                                 |
| County of Lee                                      | U.S. Air Force                                         |
| County of Orange                                   | U.S. Environmental Protection Agency                   |

Assistance with funds or services was given by the U.S. Army Corps of Engineers, Jacksonville District, in collecting records at hydrologic stations throughout the Subdistrict.

Organizations that provided data are acknowledged in station descriptions.

## SUMMARY OF HYDROLOGIC CONDITIONS

The 1986 water year started with three dry-season months, November to January with above normal rainfall. February was the first dry-season month with below normal rainfall. Three significant events occurred during March. Early in the month, rising salinity levels in the Caloosahatchee River necessitated releases from Lake Okeechobee. Second, a storm in the second week caused minor flooding in the Everglades Agricultural area, necessitating back pumping into Lake Okeechobee. Finally a strong rain system moved into the southeast coastal areas on the 26th and 27th of the month, causing extensive flooding of urban and agricultural lands throughout eastern Broward and southern Dade county areas. April and May were very dry months. Lake Okeechobee and the three water conservation areas declined markedly in May. June started the wet season with more than substantial amounts of rainfall. Rainfall during July was about half that during June. Lake Okeechobee rose three quarters of a foot during July. Rainfall was close to normal in August. Lake Okeechobee rose about six inches. Rainfall for September was about half of normal due to major changes in atmospheric pressures. Rainfall was below normal at five representative rainfall stations in the St. Johns River basin. These stations are at Melbourne in the upper St. Johns River basin, Orlando in the middle basin, Clermont in the Oklawaha basin, and Crescent City and Jacksonville in the lower St. Johns River basin.

## SPECIAL NETWORKS AND PROGRAMS

Hydrologic Bench-Mark Network is a network of 57 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by the activities of man.

National Stream Quality Accounting Network (NASQAN) is a nationwide data-collection network designed by the U.S. Geological Survey to meet many of the information needs of government agencies and other groups involved in natural or regional water-quality planning and management. The 500 or so sites in NASQAN are generally located at the downstream ends of hydrologic accounting units designated by the U.S. Geological Survey Office of Water Data Coordination in consultation with the Water Resources Council.

The objectives of NASQAN are (1) to obtain information on the quality and quantity of water moving within and from the United States through a systematic and uniform process of data collection, summarization, analysis, and reporting such that the data may be used for, (2) description of the areal variability of water quality in the Nation's rivers through analysis of data from this and other programs, (3) detection of changes or trends with time in the pattern of occurrence of water-quality characteristics, and (4) providing a nationally consistent data base useful for water-quality assessment and hydrologic research. The NASQAN stations in Florida are shown in figure 6.

Tritium Network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.



Figure 2. NASQAN stations in the State of Florida.

### EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 1986 water year that began October 1, 1985, and ended September 30, 1986. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, water-quality data for surface and ground water, and ground-water-level data. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

### Station Identification Numbers

Each data station, whether streamsite or well, in this report is assigned a unique identification number. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for wells and for surface-water stations where only miscellaneous observations are made.

### Downstream Order System

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indentation in the "List of Stations" in the front of this report. Each indentation represents one rank. This downstream order and system of indentation shows which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight-digit number for each station, such as 02228500, which appears just to the left of the station name, includes the 2-digit part number "02" plus the 6- to 12-digit downstream-order number "228500." The part number designates the major river basin; for example, part "02" is the South Atlantic Slope and eastern Gulf of Mexico basins.

### Latitude-Longitude System

The identification numbers for wells and miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description. (See figure below.)

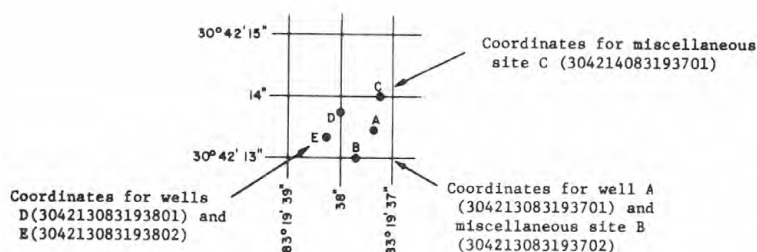


Figure 3. System for numbering wells and miscellaneous sites.  
(latitude and longitude)

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Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake elevation, similarly, are those for which stage may be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a stage-recording device or daily or weekly observations, but need not be. Because daily mean discharges and lake elevations commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records," or "Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report.

Location of all complete-record and partial-record stations for which data are given in this report are shown in figures preceding each sub-basin.

Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consist of a record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relationships between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily mean discharges.

Records of stage are obtained with analog recorders that trace continuous graphs of stage or with digital recorders that punch stage values on paper tapes at selected time intervals. Measurements of discharge are made with current meters using methods adopted by the Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations, Book 3, Chapter A6.

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using: (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow over dams or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

At some stream-gaging stations, the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

In computing records of lake or reservoir contents, it is necessary to have available from surveys, curves or tables defining the relationship of stage and content. The application of stage to the stage-content curves or tables gives the contents from which daily, monthly, or yearly changes then are determined. If the stage-content relationship changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relationship. Even when this is done, the contents computed may become increasingly in error as the lapsed time since the last survey increases. Discharges over lake or reservoir spillways are computed from stage-discharge relationships much as other stream discharges are computed.

For some gaging stations, there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Data Presentation

The records published for each gaging station consist of two parts, the manuscript or station description and the data table for the current water year. The manuscript provides, under various headings, descriptive information, such as station location, period of record, average discharge, historical extremes, record accuracy, and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the various headings of the station description.



LOCATION.--Information on locations is obtained from the most accurate base maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given.

DRAINAGE AREA.--Drainage areas are delineated and measured using the most accurate topographic maps available, and are updated as necessary.

PERIOD OF RECORD.--This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not, and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.--Published records, because of new information, occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to National Geodetic Vertical Datum of 1929 (see DEFINITION OF TERMS), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a remarks statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

AVERAGE DISCHARGE.--The discharge value given is the arithmetic mean of the water-year mean discharges. It is computed only for stations having at least 5 water years of complete record, and only water years of complete record are included in the computation. It is not computed for stations where diversions, storage, or other water-use practices cause the value to be meaningless. If water developments significantly altering flow at a station are put into use after the station has been in operation for a period of years, a new average is computed as soon as 5 water years of record have accumulated following the development. The median of yearly mean discharges also is given under this heading for stations having 10 or more water years of record, if the median differs from the average given by more than 10 percent.

EXTREMES FOR PERIOD OF RECORD.--Extremes may include maximum and minimum stages and maximum and minimum discharges or content. Unless otherwise qualified, the maximum discharge or content is the instantaneous maximum corresponding to the highest stage that occurred. The highest stage may have been obtained from a graphic or digital recorder, a crest-stage gage, or by direct observation of a nonrecording gage. If the maximum stage did not occur on the same day as the maximum discharge or content, it is given separately. Similarly, the minimum is the instantaneous minimum discharge, unless otherwise qualified, and was determined and is reported in the same manner as the maximum.

EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the U.S. Geological Survey.

EXTREMES FOR CURRENT YEAR.--Extremes given here are similar to those for the period of record, except the peak discharge listing may include secondary peaks. For stations meeting certain criteria, all peak discharges and stages occurring during the water year and greater than a selected base discharge are presented under this heading. The peaks greater than the base discharge, excluding the highest one, are referred to as secondary peaks. Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial control by man. The time of occurrence for peaks is expressed in 24-hour local standard time. For example, 12:30 a.m. is 0030, and 1:30 p.m. is 1330. The minimum for the current water year appears below the table of peak data.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published to document the revision in a "Revised Records" entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the offices whose addresses are given on the back of the title page of this report to determine if the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check because any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the "Remarks" and in the inclusion of a skeleton stage-capacity table when daily contents are given.

The daily table for stream-gaging stations gives mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also is usually expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN."), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. In the yearly summary below the monthly summary, the figures shown are the appropriate

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discharges for the calendar and water years. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversions or reservoir contents are given. These figures are identified by a symbol and corresponding footnote.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

#### Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter symbol "e" and printing a table footnote, "e Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

#### Accuracy of the Records

The accuracy of streamflow records depends primarily on: (1) The stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements; and (2) the accuracy of measurements of stage, measurements of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of their true values; "good," within 10 percent; and "fair," within 15 percent. Records that do not meet the criteria mentioned are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for values less than 1 ft<sup>3</sup>/s; to the nearest tenth between 1.0 and 10 ft<sup>3</sup>/s; to whole numbers between 10 and 1,000 ft<sup>3</sup>/s; and to 3 significant figures for more than 1,000 ft<sup>3</sup>/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff, in inches, are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

#### Other Records Available

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables is on file in the Miami Subdistrict Office of the Florida District. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the offices whose addresses are given on the back of the title page of this report.

#### Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequencies.

#### Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where water-quality data are collected systematically over a period of years, usually less frequently than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between "continuing records," as used in this report, and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently.

#### Arrangement of Records

Water-quality records collected at a surface-water daily record station or a periodic observation station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water

quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

### Onsite Measurements and Sample Collection

In obtaining water-quality data, a major concern is assuring that the data obtained represent the quality of the water in its natural state. To assure this, certain measurements, such as water temperature, pH, alkalinity, specific conductance, and dissolved oxygen, need to be made onsite when the samples are taken. To assure that measurements made in the laboratory also represent the natural water, carefully prescribed procedures need to be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations," Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4. All of these references are listed under "PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS" which appears at the end of the introductory text. Also, detailed information on collecting, treating, and shipping samples may be obtained from the Geological Survey office.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals depends on flow conditions and other factors which must be evaluated by the collector.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For stations equipped with water-quality monitors, the records consist of daily mean values for each constituent measured and are based upon unit values (hourly or 15-minute recordings). These unit values may be obtained from the Orlando Subdistrict Office, 80 North Hughey Avenue, Suite 216, Orlando, Florida 32801

### Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

### Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily discharges of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of suspended-sediment discharge, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

### Laboratory Measurements

Sediment samples, samples for biochemical-oxygen demand (BOD), samples for indicator bacteria, and daily samples for specific conductance are analyzed locally. All other samples are analyzed in the Geological Survey laboratory in Arvada, Colorado. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1. Methods used by the Geological Survey laboratory are given in TWRI, Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A1, A3, and A4.

### Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and



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extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge"; same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge"; same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.--Information on instrumentation is given only if a recording or sampling device, which may be time- or event-activated, is in operation at a station.

REMARKS.--Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the U.S. Geological Survey's computerized data system, WATSTORE, and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to ensure the most recent updates.

#### Remark Codes

The following remark codes may appear with the water-quality data in this report:

| Printed output | Remark                                                                                         |
|----------------|------------------------------------------------------------------------------------------------|
| E              | Estimated value                                                                                |
| >              | Actual value is known to be greater than the value shown                                       |
| <              | Actual value is known to be less than the value shown                                          |
| K              | Results based on colony count outside the acceptance range (non-ideal colony count)            |
| L              | Biological organism count less than 0.5 percent (organism may be observed rather than counted) |
| D              | Biological organism count equal to or greater than 15 percent (dominant)                       |
| &              | Biological organism estimated as dominant                                                      |

#### Records of Ground-Water Levels

Ground-water level data from a statewide network of observation wells are published herein. The records include data from wells equipped with water-level recorders and data from wells where water levels are measured periodically.

#### Data Collection and Computation

Measurements of water levels are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well ensure that measurements at each well are of consistent accuracy and reliability.

Tables of water-level data are presented by counties arranged in alphabetical order. The prime identification number for a given well is the 15-digit number that appears in the upper left corner of the table.

Water-level records are obtained from direct measurements with a steel tape, pressure gage, manometer, or from the graph or punched tape of a water-level recorder. The measurements in this report are given in feet above National Geodetic Vertical Datum of 1929 or in some tables as feet below land-surface datum. Land-surface datum is a datum plane that is approximately at land surface at each well. The elevation of the land-surface datum is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description.



Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error of determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given to a tenth of a foot or a larger unit.

#### Data Presentation

Each well record consists of two parts, the station description and the data table of water levels observed during the water year. The description of the well is presented first through use of descriptive headings preceding the tabular data. The comments to follow clarify information presented under the various headings.

**LOCATION.**--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds); a landline location designation; the hydrologic-unit number; the distance and direction from a geographic point of reference; and the owner's name.

**AQUIFER.**--This entry designates by name (if a name exists) and geologic age the aquifer(s) open to the well.

**WELL CHARACTERISTICS.**--This entry describes the well in terms of depth, diameter, casing depth and/or screened interval, method of construction, use, and additional information such as casing breaks, collapsed screen, and other changes since construction.

**INSTRUMENTATION.**--This paragraph provides information on both the frequency of measurement and the collection method used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on hourly, daily, weekly, monthly, or some other frequency of measurement.

**DATUM.**--This entry describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base and so on), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above (or below) National Geodetic Vertical Datum of 1929 (NGVD of 1929); it is reported with a precision depending on the method of determination.

**REMARKS.**--This entry describes factors that may influence the water level in a well or the measurement of the water level.

**PERIOD OF RECORD.**--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water-level records by the U.S. Geological Survey and the words "to current year" if the records are to be continued into the following year. Periods for which water-level records are available, but are not published by the Geological Survey, may be noted.

**EXTREMES FOR PERIOD OF RECORD.**--This entry contains the highest and lowest water levels of the period of record, with reference to National Geodetic Vertical Datum of 1929, and the dates of their occurrence.

A table of water levels follows the station description for each well. For wells equipped with recorders, only abbreviated tables are published; generally, daily maximums are listed for every fifth day and at the end of the month (eom). The highest and lowest water levels of the water year and their dates of occurrence are shown on a line below the abbreviated table. Because all values are not published for wells with recorders, the extremes may be values that are not listed in the table. Missing records are indicated by dashes in place of the water level.

#### Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that, for most sampling sites, they consist of only one set of measurements for the water year. The quality of ground water ordinarily changes slowly; therefore, for most general purposes, one annual sampling, or only a few samples taken at infrequent intervals during the year, is sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such as monitoring for trends in nitrate concentration. In the special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes.

#### Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some counties but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality in the report area. Such a view can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the "U.S. Geological Survey Techniques of Water-Resources Investigations" manuals listed at the end of the introductory text. The values reported in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. The wells sampled were pumped long enough to assure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

#### Data Presentation

The records of ground-water quality are published immediately following the ground-water-level records of each county. Data for quality of ground water are identified by well number. The prime identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. The Remark Codes listed for surface-water-quality records are also applicable to ground-water-quality records.

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**ACCESS TO WATSTORE DATA**

The National Water Data Storage and Retrieval System (WATSTORE) was established for handling water data collected through the activities of the U.S. Geological Survey and to provide for more effective and efficient means of releasing the data to the public. The system is operated and maintained on the central computer facilities of the Survey at its National Center in Reston, Virginia.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from the offices whose addresses are given on the back of the title page.

General inquiries about WATSTORE may be directed to:

Chief Hydrologist  
U.S. Geological Survey  
437 National Center  
Reston, Virginia 22092

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### DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System (SI) Units on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, while others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C plus or minus 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5°C plus or minus 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as Gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C plus or minus 1.0°C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by micro-organisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m<sup>3</sup>), and periphyton and benthic organisms in grams per square mile (g/m<sup>2</sup>).

Dry mass refers to the mass of residue present after drying in an oven at 105°C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day (cubic feet per second per day) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons, or 2,447 cubic meters.

CFSM (cubic foot per second per square mile) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

Color unit is produced by one milligram per liter of platinum in the form of the chloro-platinate ion. Color is expressed in units of the platinum-cobalt scale.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic foot per second ( $\text{ft}^3/\text{s}$  or cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Cubic foot per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment) that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved refers to that material in a representative water sample which passes through a 0.45  $\mu\text{m}$  membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations and is expressed as the equivalent concentration of calcium carbonate ( $\text{CaCO}_3$ ).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an eight-digit number.

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Measuring point (MP) is an arbitrary permanent reference point from which the distance to the water surface in a well is measured to obtain the water level.

Micrograms per gram ( $\mu\text{g/g}$ ) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per liter ( $\mu\text{g/L}$ ,  $\mu\text{g/L}$ ) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter ( $\text{mg/L}$ ,  $\text{mg/L}$ ) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in  $\text{mg/L}$  and is based on the mass of dry sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.



Organism is any living entity.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter ( $m^2$ ), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Parameter code is a 5-digit number used in the U.S. Geological Survey computerized data system, WATSTORE, to uniquely identify a specific constituent. The codes used in WATSTORE are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The Environmental Protection Agency assigns and approves all requests for new codes.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of a particle determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particulate-size classification used in this report agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

| Classification | Size (mm)       | Method of analysis     |
|----------------|-----------------|------------------------|
| Clay.....      | 0.00024 - 0.004 | Sedimentation          |
| Silt.....      | .004 - .062     | Sedimentation          |
| Sand.....      | .062 - 2.0      | Sedimentation or sieve |
| Gravel.....    | 2.0 - 64.0      | Sieve                  |

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic matter is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, mass, or volume.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

Picocurie (PC, pCi) is one millionth of the amount of radioactivity represented by a micro-curie, which is the quantity of radiation represented by one millionth of a gram of radium-226. A picocurie of radium results in 2.22 disintegrations per minute.

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Return period is the average time interval between occurrences of a hydrological event of a given or greater magnitude, usually expressed in years. May also be called recurrence interval.

Runoff in inches (IN., in.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along the bed and very close to it. In this report, bed load is considered to consist of particles in transit within 0.25 ft of the streambed.

Bed load discharge (tons per day) is the quantity of bed load measured by dry weight that moves past a section as bed load in a given time.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

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Suspended-sediment discharge (tons/day) is the rate at which dry mass of sediment passes a section of a stream or is the quantity of sediment, as measured by dry mass or volume, that passes a section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft<sup>3</sup>/s) x 0.0027.

Suspended-sediment load is a general term that refers to material in suspension. It is not synonymous with either discharge or concentration.

Total-sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry mass or volume, that passes a section during a given time.

Total-sediment load or total load is a term which refers to the total sediment (bed load plus suspended-sediment load) that is in transport. It is not synonymous with total-sediment discharge.

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water, per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Surface area of a lake is that area outlined on the latest USGS topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is the part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is associated with the material retained on a 0.45  $\mu$ m filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45  $\mu$ m membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45  $\mu$ m membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, Hexagenia limbata, is the following:

|              |                          |
|--------------|--------------------------|
| Kingdom..... | Animal                   |
| Phylum.....  | Arthropoda               |
| Class.....   | Insecta                  |
| Order.....   | Ephemeroptera            |
| Family.....  | Ephemeridae              |
| Genus.....   | <u>Hexagenia</u>         |
| Species..... | <u>Hexagenia limbata</u> |

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY) is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determined all of the constituent in the sample.)

Total discharge is the total quantity of any individual constituent, as measured by dry mass or volume, that passes through a stream cross section per unit of time. This term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Water year in Geological Survey reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1986, is called the "1986 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976).

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

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**PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS**

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publications, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Books and Open-File Reports Section, Federal Center, Box 25425, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

- 1-D1. WATER TEMPERATURE-INFLUENTIAL FACTORS, FIELD MEASUREMENT, AND DATA PRESENTATION, by H.H. Stevens, Jr., J.F. Ficke, and G.F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
- 1-D2. GUIDELINES FOR COLLECTION AND FIELD ANALYSIS OF GROUND-WATER SAMPLES FOR SELECTED UNSTABLE CONSTITUENTS, W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
- 2-D1. APPLICATION OF SURFACE GEOPHYSICS TO GROUND-WATER INVESTIGATIONS, by A.A.R. Zohdy, G.P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
- 2-E1. APPLICATION OF BOREHOLE GEOPHYSICS TO WATER-RESOURCES INVESTIGATIONS, by W.S. Keys and L.M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 3-A1. GENERAL FIELD AND OFFICE PROCEDURES FOR INDIRECT DISCHARGE MEASUREMENTS, by M.A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. MEASUREMENT OF PEAK DISCHARGE BY THE SLOPE-AREA METHOD, by Tate Dalrymple and M.A. Benson, USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. MEASUREMENT OF PEAK DISCHARGE AT CULVERTS BY INDIRECT METHODS, by G.L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. MEASUREMENT OF PEAK DISCHARGE AT WIDTH CONTRACTIONS BY INDIRECT METHODS, by H.F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. MEASUREMENT OF PEAK DISCHARGE AT DAMS BY INDIRECT METHODS, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. GENERAL PROCEDURE FOR GAGING STREAMS, by R.W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. STAGE MEASUREMENTS AT GAGING STATIONS, by T.J. Buchanan and W.P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. DISCHARGE MEASUREMENTS AT GAGING STATIONS, by T.J. Buchanan and W.P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A9. MEASUREMENT OF TIME OF TRAVEL AND DISPERSION IN STREAMS BY DYE TRACING, by E.F. Hubbard, F.A. Kilpatrick, L.A. Martens, and J.F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1982. 44 pages.
- 3-A10. DISCHARGE RATINGS AT GAGING STATIONS, by E.J. Kennedy: USGS--TWRI Book 3, Chapter A10. 1984. 59 pages.
- 3-A11. MEASUREMENT OF DISCHARGE BY MOVING-BOAT METHOD, by G.F. Smoot and C.E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
- 3-A13. COMPUTATION OF CONTINUOUS RECORDS OF STREAMFLOW, by E.J. Kennedy: USGS--TWRI Book 3, Chapter A13. 1983. 53 pages.
- 3-A14. USE OF FLUMES IN MEASURING DISCHARGE, by F.A. Kilpatrick and V.R. Schneider: USGS--TWRI Book 3, Chapter A14. 1983. 46 pages.
- 3-A15. COMPUTATION OF WATER-SURFACE PROFILES IN OPEN CHANNELS, by Jacob Davidian: USGS--TWRI Book 3, Chapter A15. 1984. 48 pages.
- 3-B1. AQUIFER-TEST DESIGN, OBSERVATION, AND DATA ANALYSIS, by R.W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. INTRODUCTION TO GROUND-WATER HYDRAULICS, A PROGRAMED TEXT FOR SELF-INSTRUCTION, by G.D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-B3. TIP CURVES FOR SELECTED PROBLEMS OF FLOW TO WELLS IN CONFINED AQUIFERS, by J.E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.
- 3-C1. FLUVIAL SEDIMENT CONCEPTS, by H.P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. FIELD METHODS FOR MEASUREMENT OF FLUVIAL SEDIMENT, by H.P. Guy and V.W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
- 3-C3. COMPUTATION OF FLUVIAL-SEDIMENT DISCHARGE, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.



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PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS--Continued

- 4-A1. SOME STATISTICAL TOOLS IN HYDROLOGY, by H.C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. FREQUENCY CURVES, by H.C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
- 4-B1. LOW-FLOW INVESTIGATIONS, by H.C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. STORAGE ANALYSES FOR WATER SUPPLY, by H.C. Riggs and C.H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. REGIONAL ANALYSES OF STREAMFLOW CHARACTERISTICS, by H.C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. COMPUTATION OF RATE AND VOLUME OF STREAM DEPLETION BY WELLS, by C.T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 5-A1. METHODS FOR DETERMINATION OF INORGANIC SUBSTANCES IN WATER AND FLUVIAL SEDIMENTS, by M.W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.
- 5-A2. DETERMINATION OF MINOR ELEMENTS IN WATER BY EMISSION SPECTROSCOPY, by P.R. Barnett and E.C. Mallor, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. METHODS FOR ANALYSIS OF ORGANIC SUBSTANCES IN WATER, by D.F. Goerlitz and Eugene Brown: USGS--TWRI 5, Chapter A3. 1972. 40 pages.
- 5-A4. METHODS FOR COLLECTION AND ANALYSIS OF AQUATIC BIOLOGICAL AND MICROBIOLOGICAL SAMPLES, edited by P.E. Greeson, T.A. Ehlke, G.A. Irwin, B.W. Lium, and K.V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.
- 5-A5. METHODS FOR DETERMINATION OF RADIOACTIVE SUBSTANCES IN WATER AND FLUVIAL SEDIMENTS, by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-A6. QUALITY ASSURANCE PRACTICES FOR THE CHEMICAL AND BIOLOGICAL ANALYSES OF WATER AND FLUVIAL SEDIMENTS, by L.C. Friedman and D.E. Erdmann: USGS--TWRI Book 5, Chapter A6. 1982. 181 pages.
- 5-C1. LABORATORY THEORY AND METHODS FOR SEDIMENT ANALYSIS, by H.P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 7-C1. FINITE DIFFERENCES MODEL FOR AQUIFER SIMULATION IN TWO DIMENSIONS WITH RESULTS OF NUMERICAL EXPERIMENTS, by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 7-C2. COMPUTER MODEL OF TWO-DIMENSIONAL SOLUTE TRANSPORT AND DISPERSION IN GROUND WATER, by L.F. Konikow and J.D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 7-C3. A MODEL FOR SIMULATION OF FLOW IN SINGULAR AND INTERCONNECTED CHANNELS, by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.
- 8-A1. METHODS OF MEASURING WATER LEVELS IN DEEP WELLS, by M.S. Garber and F.C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
- 8-A2. INSTALLATION AND SERVICE MANUAL FOR U.S. GEOLOGICAL SURVEY MANOMETERS, by J.D. Craig: USGS--TWRI Book 8, Chapter A2. 1983. 57 pages.
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STAGE, DISCHARGE, AND WATER QUALITY OF STREAMS

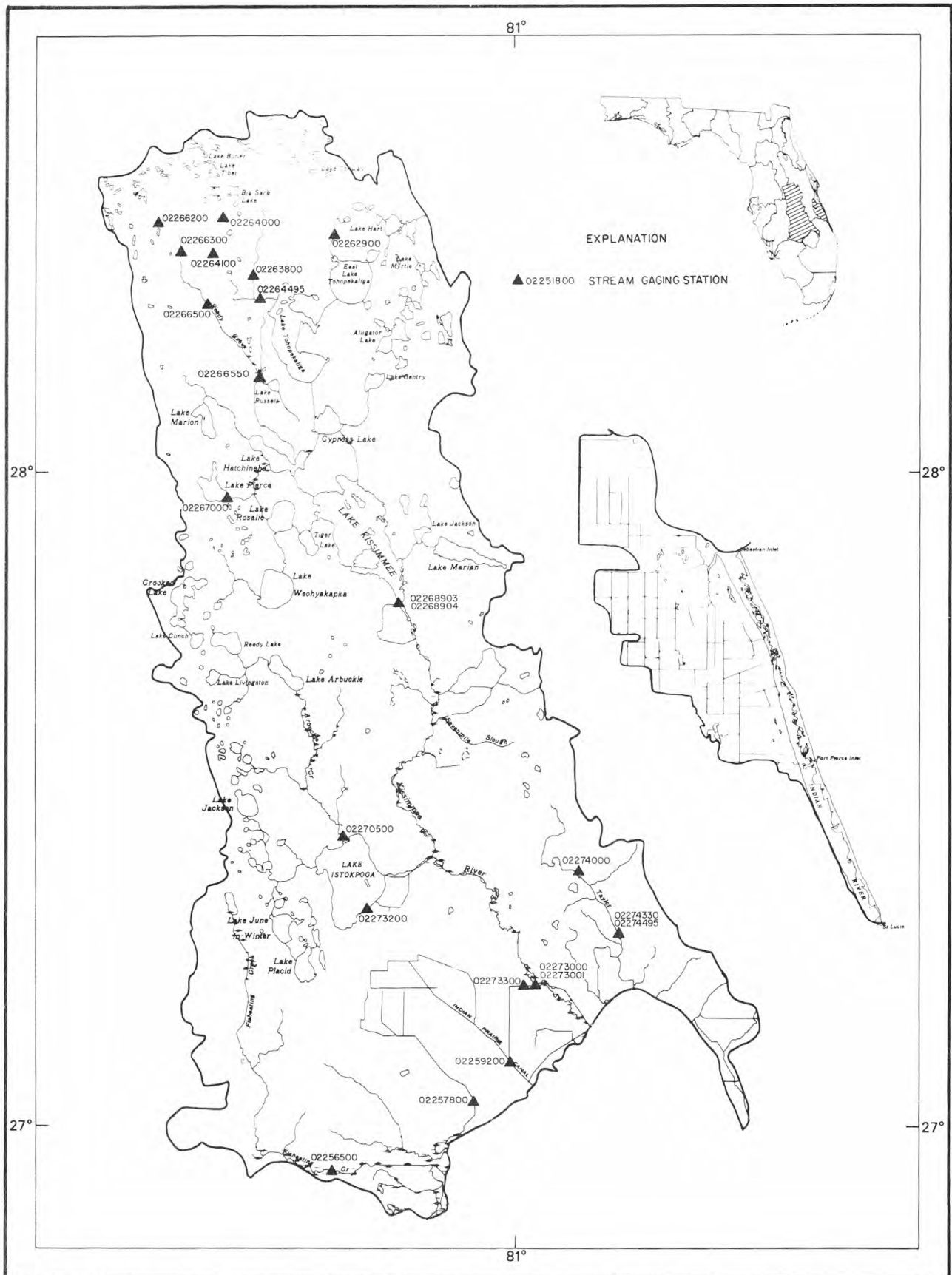


Figure 4. Location of gaging stations in the coastal area between Sebastian Inlet to the St. Lucie River, the Kissimmee River basin; the Taylor Creek basin and inflow to Lake Okechobee from the north; and Fisheating Creek basin and inflow to Lake Okechobee from the northwest



## FISHEATING CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTHWEST

02256500 FISHEATING CREEK AT PALMDALE, FL  
(National stream-quality accounting network station)

LOCATION.--Lat 26°55'56", long 81°18'54" in SW¼ sec.3, T.41 S., R.30 E., Glades County, Hydrologic Unit 03090103, near right bank on downstream side of southbound bridge on U.S. Highway 27, 1.0 mi south of Palmdale, and 16 mi upstream from Lake Okeechobee.

DRAINAGE AREA.--311 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is 27.19 ft above National Geodetic Vertical Datum of 1929. Prior to Mar. 16, 1949, nonrecording gage and Mar. 16, 1949, to Jan. 23, 1956, water-stage recorder, at site 450 ft upstream at same datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--55 years, 257 ft<sup>3</sup>/s, 11.22 in/yr, 186,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,400 ft<sup>3</sup>/s, Oct. 3, 1951, gage height, 12.44 ft, from rating curve extended above 21,000 ft<sup>3</sup>/s; no flow at times in most years; minimum gage height observed, -0.61 ft, June 13, 1950.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date     | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|--------|------|-----------------------------------|---------------------|----------|------|-----------------------------------|---------------------|
| July 2 | 1600 | 1,870                             | 6.14                | Sept. 12 | 1400 | *3,680                            | *6.84               |

No flow Apr. 30 to June 10; minimum gage height, -0.01 ft, June 7,8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT   | NOV      | DEC  | JAN   | FEB   | MAR    | APR    | MAY | JUN      | JUL   | AUG   | SEP   |       |        |
|-------------|-------|----------|------|-------|-------|--------|--------|-----|----------|-------|-------|-------|-------|--------|
| 1           | 335   | 40       | 30   | 15    | 9.2   | 6.5    | 59     | .00 | .00      | 1430  | 103   | 565   |       |        |
| 2           | 287   | 37       | 30   | 14    | 8.2   | 6.3    | 52     | .00 | .00      | 1800  | 96    | 471   |       |        |
| 3           | 249   | 36       | 33   | 14    | 7.6   | 5.4    | 43     | .00 | .00      | 1720  | 82    | 384   |       |        |
| 4           | 247   | 40       | 43   | 13    | 7.2   | 4.6    | 35     | .00 | .00      | 1360  | 67    | 331   |       |        |
| 5           | 266   | 47       | 53   | 13    | 6.9   | 4.0    | 28     | .00 | .00      | 1030  | 58    | 294   |       |        |
| 6           | 262   | 51       | 60   | 13    | 6.5   | 3.4    | 23     | .00 | .00      | 802   | 52    | 265   |       |        |
| 7           | 251   | 52       | 64   | 13    | 6.1   | 3.0    | 20     | .00 | .00      | 703   | 49    | 255   |       |        |
| 8           | 373   | 56       | 67   | 13    | 5.7   | 2.7    | 16     | .00 | .00      | 745   | 49    | 268   |       |        |
| 9           | 566   | 65       | 67   | 14    | 5.5   | 2.4    | 14     | .00 | .00      | 1000  | 49    | 272   |       |        |
| 10          | 590   | 72       | 62   | 20    | 5.4   | 13     | 11     | .00 | .00      | 1080  | 52    | 487   |       |        |
| 11          | 527   | 73       | 57   | 26    | 5.2   | 69     | 8.4    | .00 | .04      | 936   | 59    | 1980  |       |        |
| 12          | 448   | 69       | 51   | 28    | 5.0   | 80     | 6.7    | .00 | 1.6      | 771   | 69    | 3550  |       |        |
| 13          | 377   | 63       | 45   | 27    | 4.6   | 82     | 5.9    | .00 | 3.0      | 649   | 79    | 3190  |       |        |
| 14          | 318   | 56       | 41   | 24    | 4.4   | 88     | 5.3    | .00 | 5.5      | 514   | 94    | 2390  |       |        |
| 15          | 272   | 50       | 41   | 23    | 4.2   | 118    | 4.8    | .00 | 11       | 418   | 111   | 1810  |       |        |
| 16          | 237   | 43       | 39   | 22    | 3.9   | 157    | 4.0    | .00 | 21       | 354   | 143   | 1430  |       |        |
| 17          | 207   | 39       | 36   | 22    | 3.6   | 177    | 3.3    | .00 | 43       | 299   | 176   | 1170  |       |        |
| 18          | 184   | 36       | 33   | 22    | 4.2   | 184    | 2.8    | .00 | 74       | 249   | 208   | 941   |       |        |
| 19          | 176   | 34       | 30   | 22    | 5.4   | 197    | 2.4    | .00 | 118      | 206   | 263   | 792   |       |        |
| 20          | 177   | 36       | 28   | 20    | 5.9   | 233    | 2.0    | .00 | 285      | 168   | 338   | 689   |       |        |
| 21          | 177   | 36       | 26   | 18    | 5.5   | 321    | 1.7    | .00 | 688      | 140   | 462   | 681   |       |        |
| 22          | 167   | 35       | 24   | 17    | 5.0   | 365    | 1.5    | .00 | 928      | 124   | 784   | 692   |       |        |
| 23          | 149   | 35       | 22   | 16    | 5.0   | 323    | 1.2    | .00 | 931      | 119   | 1030  | 675   |       |        |
| 24          | 125   | 34       | 22   | 15    | 6.9   | 264    | .92    | .00 | 862      | 137   | 1120  | 653   |       |        |
| 25          | 100   | 32       | 21   | 14    | 7.5   | 206    | .69    | .00 | 865      | 147   | 1250  | 594   |       |        |
| 26          | 83    | 30       | 20   | 13    | 6.2   | 155    | .52    | .00 | 774      | 107   | 1350  | 523   |       |        |
| 27          | 71    | 28       | 18   | 13    | 5.1   | 116    | .33    | .00 | 847      | 103   | 1150  | 442   |       |        |
| 28          | 64    | 26       | 17   | 12    | 5.0   | 87     | .17    | .00 | 1680     | 150   | 902   | 367   |       |        |
| 29          | 57    | 24       | 17   | 11    | ---   | 70     | .01    | .00 | 1580     | 159   | 695   | 303   |       |        |
| 30          | 51    | 23       | 16   | 9.8   | ---   | 63     | .00    | .00 | 1500     | 136   | 560   | 254   |       |        |
| 31          | 45    | ---      | 15   | 9.6   | ---   | 62     | ---    | .00 | ---      | 117   | 542   | ---   |       |        |
| TOTAL       | 7438  | 1298     | 1128 | 526.4 | 160.9 | 3468.3 | 353.64 | .00 | 11217.14 | 17673 | 12042 | 26718 |       |        |
| MEAN        | 240   | 43.3     | 36.4 | 17.0  | 5.75  | 112    | 11.8   | .00 | 374      | 570   | 388   | 891   |       |        |
| MAX         | 590   | 73       | 67   | 28    | 9.2   | 365    | 59     | .00 | 1680     | 1800  | 1350  | 3550  |       |        |
| MIN         | 45    | 23       | 15   | 9.6   | 3.6   | 2.4    | .00    | .00 | .00      | 103   | 49    | 254   |       |        |
| CFSM        | .77   | .14      | .12  | .05   | .02   | .36    | .04    | .00 | 1.20     | 1.83  | 1.25  | 2.86  |       |        |
| IN.         | .89   | .16      | .13  | .06   | .02   | .41    | .04    | .00 | 1.34     | 2.11  | 1.44  | 3.20  |       |        |
| AC-FT       | 14750 | 2570     | 2240 | 1040  | 319   | 6880   | 701    | .00 | 22250    | 35050 | 23890 | 53000 |       |        |
| CAL YR 1985 | TOTAL | 46427.98 | MEAN | 127   | MAX   | 1320   | MIN    | .00 | CFSM     | .41   | IN.   | 5.55  | AC-FT | 92090  |
| WTR YR 1986 | TOTAL | 82023.38 | MEAN | 225   | MAX   | 3550   | MIN    | .00 | CFSM     | .72   | IN.   | 9.81  | AC-FT | 162700 |

## SOUTH FLORIDA

## FISHEATING CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTHWEST

02256500 FISHEATING CREEK AT PALMDALE, FL--Continued  
(National stream-quality accounting network station)

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1964 to September 1975, January 1978 to current year.  
WATER TEMPERATURE: July 1964 to September 1975, January 1978 to current year.

INSTRUMENTATION.--Water-quality monitor since October 1980.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum observed (more than 20 percent missing record), 1,590 microsiemens June 5, 1975; minimum observed, 38 microsiemens Mar. 21, 1970.  
WATER TEMPERATURE: Maximum observed, 33.0°C June 21, 1973; minimum observed, 8.0°C Jan. 8, 1970.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily mean, 371 microsiemens, Mar. 16; minimum daily mean, 60 microsiemens, Sept. 13.  
WATER TEMPERATURE: Maximum daily mean, 30.5°C Aug. 4, 10; minimum daily mean, 11.0°C, Dec. 27, 28, Jan. 27.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1    | 101 | 145 | 189 | 235 | 323 | 302 | 266 |     | --- | 109 | 119 | 110 |
| 2    | 93  | 148 | 189 | 235 | 324 | 302 | 275 |     | --- | 111 | 121 | 115 |
| 3    | 94  | 150 | 187 | 236 | 326 | 303 | 283 |     | --- | 110 | 119 | 115 |
| 4    | 96  | 151 | 193 | 238 | 327 | 302 | 291 |     | --- | 109 | 124 | 114 |
| 5    | 95  | 152 | 204 | 239 | 329 | 301 | 298 |     | --- | 111 | 126 | 115 |
| 6    | 94  | 154 | 213 | 240 | 333 | 298 | 304 |     | --- | 113 | 131 | 117 |
| 7    | 96  | 157 | 215 | 241 | 335 | 302 | 307 |     | --- | 117 | 135 | 122 |
| 8    | 100 | 160 | 223 | 241 | 333 | 309 | 311 |     | --- | 122 | 138 | 122 |
| 9    | --- | 169 | 227 | 241 | 345 | 316 | 312 |     | --- | 126 | 155 | 124 |
| 10   | --- | 189 | 227 | 239 | 335 | 299 | --- |     | --- | 123 | 175 | 104 |
| 11   | --- | 197 | 226 | 234 | 333 | 224 | --- |     | --- | 124 | 189 | 77  |
| 12   | --- | 198 | 225 | 233 | 332 | 232 | --- |     | --- | 124 | 209 | 68  |
| 13   | --- | 196 | 224 | 234 | 328 | 281 | --- |     | --- | 126 | 225 | 60  |
| 14   | --- | 193 | 223 | 241 | 331 | 288 | --- |     | --- | 117 | 210 | 64  |
| 15   | --- | 191 | 222 | 248 | 331 | 342 | --- |     | --- | 118 | 183 | 68  |
| 16   | --- | 190 | 220 | 251 | 329 | 371 | --- |     | --- | 118 | 177 | 71  |
| 17   | --- | 189 | 220 | 254 | 330 | 355 | --- |     | --- | 119 | 174 | 74  |
| 18   | --- | 188 | 222 | 259 | 324 | 331 | --- |     | --- | 120 | 177 | 76  |
| 19   | --- | 187 | 224 | 266 | 325 | 309 | --- |     | --- | 120 | 162 | 79  |
| 20   | --- | 186 | 224 | 275 | 323 | 288 | --- |     | --- | 121 | 142 | 82  |
| 21   | --- | 185 | 225 | 283 | 318 | 275 | --- |     | --- | 121 | 126 | 83  |
| 22   | --- | 184 | 227 | 291 | 316 | 256 | --- |     | --- | 119 | 109 | 82  |
| 23   | --- | 184 | 229 | 298 | 311 | 238 | --- |     | --- | 119 | 94  | 83  |
| 24   | --- | 183 | 229 | 304 | 309 | 230 | --- |     | 152 | 116 | 103 | 85  |
| 25   | --- | 183 | 229 | 308 | 309 | 229 | --- |     | 143 | 111 | 108 | 92  |
| 26   | --- | 184 | 232 | 311 | 310 | 233 | --- |     | 141 | 120 | 93  | 101 |
| 27   | --- | 185 | 252 | 313 | 308 | 237 | --- |     | 154 | 125 | 91  | 104 |
| 28   | --- | 187 | 245 | 316 | 300 | 241 | --- |     | 142 | 115 | 97  | 105 |
| 29   | --- | 189 | 233 | 318 | --- | 247 | --- |     | 122 | 112 | 103 | 105 |
| 30   | 143 | 191 | 237 | 318 | --- | 253 | --- |     | 109 | 115 | 105 | 106 |
| 31   | 143 | --- | 235 | 320 | --- | 260 | --- |     | --- | 118 | 107 | --- |
| MEAN | --- | 178 | 222 | 266 | 324 | 282 | --- |     | --- | 118 | 140 | 94  |
| MAX  | --- | 198 | 252 | 320 | 345 | 371 | --- |     | --- | 126 | 225 | 124 |
| MIN  | --- | 145 | 187 | 233 | 300 | 224 | --- |     | --- | 109 | 91  | 60  |

## SOUTH FLORIDA

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## FISHEATING CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTHWEST

02256500 FISHEATING CREEK AT PALMDALE, FL--Continued  
(National stream-quality accounting network station)

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 1    | 28.5 | 26.5 | 26.0 | 18.5 | 20.5 | 18.0 | 25.0 |     | ---  | 27.5 | 29.0 | 28.5 |
| 2    | 28.5 | 26.0 | 25.5 | 19.5 | 19.5 | ---  | 24.5 |     | ---  | 28.0 | 29.5 | 28.5 |
| 3    | 28.5 | 26.0 | 25.5 | 20.5 | 20.0 | ---  | 23.0 |     | ---  | 28.0 | 30.0 | 29.0 |
| 4    | 29.5 | 26.5 | 24.0 | 21.0 | 20.5 | 20.0 | 23.5 |     | ---  | 27.5 | 30.5 | 28.5 |
| 5    | 29.0 | 25.5 | 23.5 | 22.5 | 19.5 | 19.5 | 24.0 |     | ---  | 27.0 | 29.5 | 28.5 |
| 6    | 29.0 | 23.5 | 24.0 | 13.0 | 19.5 | 18.5 | 24.5 |     | ---  | 26.5 | 29.5 | 28.5 |
| 7    | 28.5 | 23.0 | 22.0 | 20.5 | 20.0 | 23.5 | 24.5 |     | ---  | 27.0 | 29.5 | 28.5 |
| 8    | 27.5 | 22.0 | 20.5 | 21.0 | 20.5 | 19.0 | 25.0 |     | ---  | 28.0 | 30.0 | 28.0 |
| 9    | ---  | 22.5 | 21.0 | 21.0 | 20.5 | 20.5 | 24.5 |     | ---  | 28.0 | 30.0 | 28.5 |
| 10   | ---  | 23.0 | 21.5 | 21.5 | 21.0 | 20.5 | ---  |     | ---  | 28.5 | 30.5 | 27.0 |
| 11   | ---  | 24.0 | 22.0 | 22.0 | 21.5 | 20.5 | ---  |     | ---  | 28.5 | 30.0 | 27.5 |
| 12   | ---  | 25.0 | 22.5 | 21.0 | 21.5 | 22.5 | ---  |     | ---  | 28.0 | 29.0 | 27.5 |
| 13   | ---  | 25.0 | 23.0 | 23.0 | ---  | 24.0 | ---  |     | ---  | 27.5 | 28.0 | 28.0 |
| 14   | ---  | 25.0 | 21.0 | 12.0 | ---  | 24.5 | ---  |     | ---  | 27.5 | 28.5 | 28.5 |
| 15   | ---  | 25.5 | 12.0 | 12.0 | 18.0 | 24.0 | ---  |     | ---  | 29.0 | 29.0 | 28.5 |
| 16   | ---  | 25.0 | 20.5 | 23.0 | 20.5 | 23.5 | ---  |     | ---  | 29.5 | 28.5 | 28.5 |
| 17   | ---  | 25.0 | 24.0 | 18.0 | 19.0 | 23.5 | ---  |     | ---  | 29.5 | 28.5 | 28.5 |
| 18   | ---  | 25.0 | 19.0 | 18.0 | 19.0 | 24.5 | ---  |     | ---  | 29.5 | 28.5 | 28.0 |
| 19   | ---  | 25.0 | 19.5 | 19.0 | 19.5 | 25.0 | ---  |     | ---  | 29.5 | 27.5 | 28.0 |
| 20   | ---  | 25.5 | 18.5 | 20.5 | 21.0 | 25.0 | ---  |     | ---  | 29.0 | 26.0 | 27.5 |
| 21   | ---  | 26.0 | 19.5 | 15.0 | 21.5 | 24.0 | ---  |     | ---  | 29.5 | 26.0 | 27.0 |
| 22   | ---  | 26.5 | 10.5 | 20.5 | 22.5 | 19.0 | ---  |     | ---  | 29.5 | 26.5 | 27.0 |
| 23   | ---  | 26.5 | 12.0 | 19.5 | 22.5 | 13.0 | ---  |     | ---  | 28.5 | 28.0 | 27.5 |
| 24   | ---  | 26.0 | 17.5 | 20.0 | 22.0 | 19.5 | ---  |     | 27.0 | 27.5 | 28.5 | 27.5 |
| 25   | ---  | 26.0 | 16.5 | 22.0 | 21.5 | 20.5 | ---  |     | 26.5 | 28.0 | 28.5 | 28.0 |
| 26   | ---  | 25.0 | ---  | 22.0 | 12.5 | 21.5 | ---  |     | 27.0 | 28.5 | 28.5 | 28.5 |
| 27   | ---  | 25.0 | 11.0 | 11.0 | 19.0 | 23.0 | ---  |     | 27.5 | 28.5 | 28.5 | 28.0 |
| 28   | ---  | 25.0 | 11.0 | ---  | 20.0 | 24.0 | ---  |     | 27.5 | 27.5 | 28.0 | 28.0 |
| 29   | ---  | 25.5 | 17.5 | ---  | ---  | 24.5 | ---  |     | 27.5 | 27.0 | 28.0 | 28.0 |
| 30   | 27.0 | 26.0 | 18.0 | 12.0 | ---  | 24.5 | ---  |     | 27.0 | 27.5 | 28.5 | 28.0 |
| 31   | 27.0 | ---  | 10.5 | 18.5 | ---  | 25.0 | ---  |     | ---  | 28.5 | 28.5 | ---  |
| MEAN | ---  | 25.0 | ---  | ---  | ---  | ---  | ---  |     | ---  | 28.0 | 28.5 | 28.0 |
| MAX  | ---  | 26.5 | ---  | ---  | ---  | ---  | ---  |     | ---  | 29.5 | 30.5 | 29.0 |
| MIN  | ---  | 22.0 | ---  | ---  | ---  | ---  | ---  |     | ---  | 26.5 | 26.0 | 27.0 |

## FISHEATING CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTHWEST

02256500 FISHEATING CREEK AT PALMDALE, FL--Continued  
(National stream-quality accounting network station)

| DATE  | TIME | GAGE    | STREAM- | SPE-    | PH      | TEMPER- | TUR-    | OXYGEN, | HARD-   | HARD-   | CALCIUM | MAGNE-  |
|-------|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|       |      | HEIGHT  | FLOW,   | CIFIC   |         |         |         |         |         | NESS    |         |         |
|       |      | (FEET   | INSTAN- | CON-    | (STAND- | ATURE   | BID-    | DIS-    | NESS    | WH WAT  | DIS-    | SIMUM,  |
|       |      | ABOVE   | TANEUS  | DUCT-   | ARD     | WATER   | ITY     | SOLVED  | (MG/L   | TOT FLD | SOLVED  | DIS-    |
|       |      | DATUM)  | (CFS)   | ANCE    | UNITS)  | (DEG C) | (NTU)   | (MG/L)  | AS      | MG/L AS | (MG/L   | (MG/L   |
|       |      | (00065) | (00061) | (00095) | (00400) | (00010) | (00076) | (00300) | CACO3)  | CACO3   | AS CA)  | AS MG)  |
|       |      |         |         |         |         |         |         |         | (00900) | (00902) | (00915) | (00925) |
| OCT   |      |         |         |         |         |         |         |         |         |         |         |         |
| 30... | 1358 | 2.51    | 50      | 138     | 6.80    | 27.0    | 1.1     | 4.3     | 41      | 24      | 9.5     | 4.1     |
| FEB   |      |         |         |         |         |         |         |         |         |         |         |         |
| 05... | 0749 | 1.11    | 4.2     | 310     | --      | 20.0    | 1.6     | 6.2     | 68      | 49      | 14      | 8.1     |
| APR   |      |         |         |         |         |         |         |         |         |         |         |         |
| 02... | 0800 | 2.62    | 55      | 280     | 6.80    | 21.5    | 1.0     | 9.3     | 68      | 9       | 15      | 7.2     |
| JUL   |      |         |         |         |         |         |         |         |         |         |         |         |
| 21... | 1058 | 3.95    | 139     | 123     | 6.10    | 29.0    | --      | 3.4     | --      | --      | --      | --      |
| 29... | 1034 | 4.10    | 160     | 110     | 6.20    | 26.0    | 1.2     | 4.4     | 29      | 1       | 6.7     | 2.9     |
| AUG   |      |         |         |         |         |         |         |         |         |         |         |         |
| 18... | 1727 | 4.46    | 237     | 168     | --      | 28.5    | 1.4     | 5.7     | 45      | 28      | 10      | 4.6     |

| DATE         | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930) | PERCENT<br>SODIUM<br>(00932) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO<br>(00931) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935) | ALKA-<br>LINITY<br>WH WAT<br>TOTAL<br>FIELD<br>MG/L AS<br>CACO3<br>(00410) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F)<br>(00950) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SIO2)<br>(00955) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L)<br>(70301) | NITRO-<br>GEN,<br>NITRATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00618) |
|--------------|---------------------------------------------------------|------------------------------|----------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| OCT<br>30... | 12                                                      | 37                           | 0.8                                                | 2.3                                                            | 17                                                                         | 15                                                       | 26                                                             | <0.10                                                         | 3.0                                                          | 147                                                                           | 84                                                                             | 0.100                                                                    |
| FEB<br>05... | 32                                                      | 48                           | 2                                                  | 5.7                                                            | --                                                                         | 26                                                       | 72                                                             | 0.20                                                          | 2.1                                                          | 211                                                                           | 170                                                                            | --                                                                       |
| APR<br>02... | 26                                                      | 43                           | 1                                                  | 6.2                                                            | 59                                                                         | 50                                                       | 56                                                             | 0.10                                                          | 2.8                                                          | 223                                                                           | 200                                                                            | --                                                                       |
| JUL<br>21... | --                                                      | --                           | --                                                 | --                                                             | 17                                                                         | --                                                       | --                                                             | --                                                            | --                                                           | --                                                                            | --                                                                             | 0.240                                                                    |
| 29...        | 9.7                                                     | 41                           | 0.8                                                | 1.8                                                            | 28                                                                         | 21                                                       | 18                                                             | <0.10                                                         | 4.4                                                          | 110                                                                           | 82                                                                             | 0.090                                                                    |
| AUG<br>18... | 17                                                      | 44                           | 1                                                  | 2.6                                                            | 17                                                                         | 23                                                       | 34                                                             | <0.10                                                         | 4.0                                                          | 144                                                                           | 110                                                                            | --                                                                       |

| DATE         | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS NH4)<br>(71846) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00605) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00666) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS PO4)<br>(71886) | PHOS-<br>PHORUS,<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) |
|--------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------------|
| OCT<br>30... | 0.010                                                                    | 0.110                                                                    | 0.080                                                           | 0.080                                                                    | 0.10                                                                       | 1.6                                                             | 1.7                                                                           | 0.280                                                  | 0.260                                                           | 0.86                                                    | 0.200                                                                     |
| FEB<br>05... | <0.010                                                                   | <0.100                                                                   | 0.030                                                           | 0.040                                                                    | 0.05                                                                       | 1.1                                                             | 1.1                                                                           | 0.120                                                  | 0.110                                                           | 0.37                                                    | 0.090                                                                     |
| APR<br>02... | 0.010                                                                    | <0.100                                                                   | 0.040                                                           | 0.040                                                                    | 0.05                                                                       | 1.8                                                             | 1.8                                                                           | 0.210                                                  | 0.200                                                           | 0.64                                                    | 0.150                                                                     |
| JUL<br>21... | 0.020                                                                    | 0.260                                                                    | 0.100                                                           | 0.110                                                                    | 0.14                                                                       | 1.9                                                             | 2.0                                                                           | 0.380                                                  | 0.360                                                           | 1.2                                                     | 0.280                                                                     |
| 29...        | 0.020                                                                    | 0.110                                                                    | 0.030                                                           | 0.030                                                                    | 0.04                                                                       | 1.3                                                             | 1.3                                                                           | 0.320                                                  | 0.190                                                           | 0.98                                                    | 0.210                                                                     |
| AUG<br>18... | <0.010                                                                   | <0.100                                                                   | 0.030                                                           | 0.010                                                                    | 0.01                                                                       | 1.5                                                             | 1.5                                                                           | 0.170                                                  | 0.120                                                           | 0.52                                                    | 0.090                                                                     |

| DATE         | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL)<br>(01106) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS)<br>(01000) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA)<br>(01005) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE)<br>(01010) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD)<br>(01025) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR)<br>(01030) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO)<br>(01035) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU)<br>(01040) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE)<br>(01046) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB)<br>(01049) | LITHIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS LI)<br>(01130) |
|--------------|----------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|
| OCT<br>30... | 90                                                             | <1                                                      | 25                                                      | <0.5                                                            | <1                                                      | <1                                                             | <3                                                      | 2                                                       | 390                                                   | 2                                                     | <4                                                      |
| APR<br>02... | 130                                                            | <1                                                      | 33                                                      | <0.5                                                            | 1                                                       | <1                                                             | <3                                                      | 1                                                       | 500                                                   | 1                                                     | <4                                                      |
| AUG<br>18... | 120                                                            | <1                                                      | 18                                                      | <0.5                                                            | <1                                                      | <1                                                             | <3                                                      | 1                                                       | 420                                                   | <5                                                    | <4                                                      |



## FISHEATING CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTHWEST

02256500 FISHEATING CREEK AT PALMDALE, FL--Continued  
(National stream-quality accounting network station)

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN)<br>(01056) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG)<br>(71890) | MOLYB-<br>DENUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MO)<br>(01060) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI)<br>(01065) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE)<br>(01145) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG)<br>(01075) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR)<br>(01080) | VANA-<br>DIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS V)<br>(01085) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN)<br>(01090) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM<br>(70331) |
|--------------|-----------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------|
| OCT<br>30... | 12                                                              | <0.1                                                    | <10                                                              | 6                                                       | <1                                                             | <1                                                      | 490                                                             | <6                                                            | 8                                                     | 5                                                    | 40                                                                       |
| FEB<br>05... | --                                                              | --                                                      | --                                                               | --                                                      | --                                                             | --                                                      | --                                                              | --                                                            | --                                                    | 10                                                   | 10                                                                       |
| APR<br>02... | 9                                                               | <0.1                                                    | <10                                                              | 3                                                       | <1                                                             | <1                                                      | 880                                                             | 880                                                           | 8                                                     | 23                                                   | 4                                                                        |
| 29...        | --                                                              | --                                                      | --                                                               | --                                                      | --                                                             | --                                                      | --                                                              | --                                                            | --                                                    | 4                                                    | 75                                                                       |
| AUG<br>18... | 7                                                               | 0.1                                                     | <10                                                              | 2                                                       | <1                                                             | <1                                                      | 590                                                             | <6                                                            | 11                                                    | 5                                                    | 40                                                                       |

## SOUTH FLORIDA

## FISHEATING CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTHWEST

02257800 HARNEY POND CANAL AT S-71, NEAR LAKEPORT, FL

LOCATION.--27°02'00", long 81°44'15", in NE¼ sec.1, T.40 S., R.32 E., Glades County, Hydrologic Unit 03090103, near left bank 220 ft upstream from control structure 71, 0.1 mi west of State Highway 721, 2.3 mi upstream from bridge on State Highway 78, and 5.2 mi northeast of Lakeport.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage and deflection-meter recorders. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark).

REMARKS.--Estimated daily discharges: Jan. 28 to Feb. 3. Records fair. Flow may be diverted to Indian Prairie Canal by the combined operation of structures 70 and 75 upstream.

COOPERATION.--Gate-operation record provided by South Florida Water Management District.

AVERAGE DISCHARGE.--24 years, 206 ft<sup>3</sup>/s, 149,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,670 ft<sup>3</sup>/s, Mar. 27, 1970; maximum gage height, 25.90 ft, June 8, 1968; no flow for many days each year; minimum gage height, 12.97 ft, Feb. 9, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,710 ft<sup>3</sup>/s, Aug. 22; maximum gage height, 21.42 ft, Sept. 23; no flow for many days; minimum gage height, 17.00 ft, June 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT     | NOV      | DEC     | JAN     | FEB    | MAR      | APR     | MAY   | JUN     | JUL     | AUG      | SEP      |
|-------------|---------|----------|---------|---------|--------|----------|---------|-------|---------|---------|----------|----------|
| 1           | .00     | 72       | 99      | 86      | .00    | .00      | 172     | .00   | .00     | 117     | 201      | 69       |
| 2           | 277     | 194      | .00     | .00     | 194    | .00      | .00     | .00   | .00     | 124     | 413      | 168      |
| 3           | 281     | 200      | 93      | .00     | .00    | .00      | 79      | .00   | .00     | 115     | 125      | 119      |
| 4           | 252     | 254      | .00     | 81      | .00    | .00      | .00     | .00   | .00     | 517     | 237      | 117      |
| 5           | 586     | 314      | .00     | .00     | .00    | .00      | .00     | .00   | .00     | 243     | 110      | 313      |
| 6           | 398     | 159      | 206     | .00     | .00    | .00      | .00     | .00   | .00     | 580     | 392      | 897      |
| 7           | 969     | 211      | 79      | 97      | .00    | .00      | .00     | 89    | .00     | 913     | .00      | 701      |
| 8           | 1200    | .00      | 92      | .00     | .00    | .00      | .00     | .00   | .00     | 459     | 169      | 405      |
| 9           | 946     | .00      | 93      | .00     | 101    | .00      | .00     | .00   | .00     | 577     | .00      | 685      |
| 10          | 589     | 86       | .00     | 181     | .00    | 599      | 113     | .00   | .00     | 294     | 103      | 1300     |
| 11          | .00     | .00      | .00     | 106     | .00    | 984      | 92      | .00   | .00     | 176     | .00      | 762      |
| 12          | .00     | 101      | .00     | 101     | 123    | 653      | 97      | .00   | .00     | 98      | 205      | 722      |
| 13          | 203     | 86       | .00     | .00     | .00    | 516      | 93      | .00   | .00     | 234     | 305      | 469      |
| 14          | .00     | .00      | .00     | 182     | .00    | 592      | 97      | .00   | 104     | 183     | 404      | 497      |
| 15          | 207     | 108      | .00     | .00     | .00    | 978      | 189     | .00   | 297     | 148     | 237      | 282      |
| 16          | .00     | 93       | 79      | .00     | 86     | 775      | .00     | .00   | 89      | 160     | 1490     | 398      |
| 17          | 97      | 178      | .00     | 79      | .00    | 1120     | .00     | .00   | 209     | 60      | 638      | 480      |
| 18          | 101     | .00      | .00     | .00     | .00    | 1110     | .00     | .00   | 212     | 100     | 898      | 405      |
| 19          | .00     | 184      | 92      | 185     | .00    | 1040     | 76      | .00   | 160     | .00     | 652      | 299      |
| 20          | .00     | .00      | .00     | .00     | 76     | 861      | .00     | .00   | .00     | .00     | 607      | 210      |
| 21          | 99      | 183      | 92      | 100     | .00    | 890      | .00     | .00   | .00     | .00     | 964      | 417      |
| 22          | .00     | .00      | 90      | .00     | .00    | 819      | 72      | .00   | 93      | .00     | 1710     | 263      |
| 23          | .00     | .00      | .00     | 66      | 108    | 867      | .00     | .00   | 804     | .00     | 1140     | 276      |
| 24          | .00     | .00      | 94      | .00     | .00    | 646      | .00     | .00   | 981     | 50      | 790      | .00      |
| 25          | 92      | 110      | .00     | .00     | .00    | 285      | .00     | .00   | 343     | 54      | 706      | 266      |
| 26          | 107     | .00      | .00     | .00     | .00    | .00      | .00     | .00   | 87      | 167     | 538      | .00      |
| 27          | 108     | .00      | .00     | .00     | .00    | 159      | .00     | .00   | 278     | 206     | 529      | .00      |
| 28          | 107     | .00      | .00     | .00     | .00    | .00      | .00     | .00   | 67      | 214     | 223      | 230      |
| 29          | 91      | .00      | .00     | .00     | ---    | 139      | .00     | .00   | 106     | 172     | 338      | .00      |
| 30          | 191     | .00      | 92      | 124     | ---    | .00      | .00     | .00   | 545     | 262     | 79       | 151      |
| 31          | 85      | ---      | 66      | 695     | ---    | .00      | ---     | .00   | ---     | 257     | 208      | ---      |
| TOTAL       | 6986.00 | 2533.00  | 1267.00 | 2083.00 | 688.00 | 13033.00 | 1080.00 | 89.00 | 4375.00 | 6480.00 | 14411.00 | 10901.00 |
| MEAN        | 225     | 84.4     | 40.9    | 67.2    | 24.6   | 420      | 36.0    | 2.87  | 146     | 209     | 465      | 363      |
| MAX         | 1200    | 314      | 206     | 695     | 194    | 1120     | 189     | 89    | 981     | 913     | 1710     | 1300     |
| MIN         | .00     | .00      | .00     | .00     | .00    | .00      | .00     | .00   | .00     | .00     | .00      | .00      |
| AC-FT       | 13860   | 5020     | 2510    | 4130    | 1360   | 25850    | 2140    | 177   | 8680    | 12850   | 28580    | 21620    |
| CAL YR 1985 | TOTAL   | 30355.00 |         | MEAN    | 83.2   | MAX      | 1310    | MIN   | .00     | AC-FT   | 60210    |          |
| WTR YR 1986 | TOTAL   | 63926.00 |         | MEAN    | 175    | MAX      | 1710    | MIN   | .00     | AC-FT   | 126800   |          |

## FISHEATING CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTHWEST

02257800 HARNEY POND CANAL AT S-71, NEAR LAKEPORT, FL

GAGE HEIGHT, IN FEET ABOVE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 19.32 | 19.46 | 19.58 | 19.45 | 18.75 | 18.99 | 19.33 | 18.65 | 17.25 | 19.74 | 19.84 | 19.78 |
| 2           | 19.58 | 19.56 | 19.18 | 19.48 | 18.97 | 18.88 | 18.86 | 18.88 | 17.19 | 19.71 | 19.82 | 19.78 |
| 3           | 19.63 | 19.51 | 19.32 | 19.30 | 19.16 | 18.88 | 19.23 | 18.67 | 17.39 | 19.56 | 19.65 | 19.82 |
| 4           | 19.38 | 19.40 | 19.12 | 19.49 | 18.71 | 19.10 | 19.00 | 18.42 | 18.34 | 19.66 | 19.90 | 19.83 |
| 5           | 19.69 | 19.67 | 19.14 | 19.35 | 18.26 | 19.07 | 18.76 | 18.68 | 17.98 | 19.81 | 19.99 | 19.77 |
| 6           | 19.58 | 19.76 | 19.75 | 19.19 | 19.12 | 18.91 | 18.61 | 18.88 | 18.89 | 19.80 | 19.67 | 19.79 |
| 7           | 19.74 | 19.61 | 19.57 | 19.50 | 19.36 | 18.77 | 18.40 | 19.31 | 18.90 | 19.67 | 19.56 | 19.80 |
| 8           | 19.68 | 19.25 | 19.43 | 19.25 | 19.12 | 18.65 | 18.21 | 19.93 | 18.57 | 19.78 | 19.54 | 19.84 |
| 9           | 19.66 | 19.10 | 19.58 | 19.15 | 19.64 | 18.66 | 18.14 | 18.55 | 18.29 | 19.75 | 19.27 | 19.78 |
| 10          | 19.61 | 19.72 | 19.46 | 19.46 | 19.33 | 19.58 | 19.29 | 18.37 | 18.00 | 19.80 | 19.50 | 19.74 |
| 11          | 19.48 | 19.61 | 19.18 | 19.45 | 19.05 | 19.63 | 19.29 | 18.16 | 17.80 | 19.83 | 19.48 | 19.67 |
| 12          | 19.52 | 19.59 | 19.06 | 19.70 | 19.33 | 19.61 | 19.61 | 17.94 | 17.73 | 19.54 | 19.60 | 19.72 |
| 13          | 19.63 | 19.27 | 18.99 | 19.71 | 19.21 | 19.57 | 19.51 | 17.73 | 18.06 | 19.74 | 19.72 | 19.69 |
| 14          | 19.51 | 19.21 | 18.93 | 19.42 | 18.91 | 19.69 | 19.66 | 17.53 | 19.08 | 19.65 | 19.79 | 19.78 |
| 15          | 19.62 | 19.64 | 18.82 | 19.30 | 18.79 | 19.65 | 19.64 | 17.42 | 19.65 | 19.69 | 19.70 | 19.75 |
| 16          | 19.24 | 19.55 | 19.18 | 19.20 | 19.31 | 19.60 | 19.27 | 17.80 | 19.30 | 19.37 | 19.66 | 19.80 |
| 17          | 19.25 | 19.78 | 19.33 | 19.65 | 19.15 | 19.63 | 18.98 | 18.21 | 19.75 | 19.39 | 19.72 | 19.75 |
| 18          | 19.26 | 19.48 | 19.19 | 19.67 | 18.98 | 19.65 | 18.73 | 18.57 | 18.45 | 19.12 | 19.81 | 19.81 |
| 19          | 19.13 | 19.54 | 19.74 | 19.63 | 18.85 | 19.64 | 19.08 | 18.78 | 17.59 | 19.00 | 19.73 | 19.83 |
| 20          | 19.23 | 19.33 | 19.57 | 19.48 | 19.36 | 19.64 | 19.06 | 18.87 | 17.73 | 18.85 | 19.79 | 19.57 |
| 21          | 19.62 | 19.62 | 19.55 | 19.31 | 19.01 | 19.62 | 19.00 | 18.45 | 19.52 | 18.76 | 19.80 | 19.85 |
| 22          | 19.30 | 19.18 | 19.65 | 19.00 | 18.82 | 19.66 | 19.25 | 18.07 | 19.86 | 18.64 | 19.80 | 20.10 |
| 23          | 19.07 | 18.95 | 19.59 | 19.42 | 19.40 | 19.67 | 18.78 | 17.81 | 19.82 | 18.91 | 19.78 | 20.13 |
| 24          | 19.12 | 18.95 | 19.64 | 19.44 | 19.08 | 19.64 | 18.44 | 18.78 | 19.88 | 19.37 | 19.83 | 19.48 |
| 25          | 19.66 | 19.32 | 19.43 | 19.39 | 18.81 | 19.53 | 18.25 | 18.95 | 19.81 | 19.81 | 19.78 | 19.74 |
| 26          | 19.54 | 18.94 | 19.32 | 19.35 | 19.45 | 19.09 | 18.12 | 18.60 | 19.71 | 19.82 | 19.79 | 19.62 |
| 27          | 19.50 | 18.58 | 19.36 | 19.19 | 19.38 | 19.44 | 18.03 | 18.27 | 19.87 | 19.74 | 19.77 | 19.77 |
| 28          | 19.50 | 18.33 | 19.21 | 18.80 | 19.08 | 19.59 | 17.89 | 17.94 | 19.49 | 19.76 | 19.66 | 19.71 |
| 29          | 19.43 | 19.33 | 19.21 | 18.63 | ---   | 19.50 | 17.83 | 17.70 | 19.66 | 19.81 | 19.75 | 19.57 |
| 30          | 19.54 | 19.24 | 19.60 | 19.10 | ---   | 19.70 | 18.27 | 17.52 | 19.77 | 19.84 | 19.83 | 19.64 |
| 31          | 19.32 | ---   | 19.42 | 19.18 | ---   | 19.45 | ---   | 17.37 | ---   | 19.85 | 19.82 | ---   |
| MEAN        | 19.46 | 19.35 | 19.36 | 19.34 | 19.09 | 19.38 | 18.82 | 18.35 | 18.78 | 19.54 | 19.72 | 19.76 |
| MAX         | 19.74 | 19.78 | 19.75 | 19.71 | 19.64 | 19.70 | 19.66 | 19.93 | 19.88 | 19.85 | 19.99 | 20.13 |
| MIN         | 19.07 | 18.33 | 18.82 | 18.63 | 18.26 | 18.65 | 17.83 | 17.37 | 17.19 | 18.64 | 19.27 | 19.48 |
| CAL YR 1985 | MEAN  | 18.55 | MAX   | 20.06 | MIN   | 13.68 |       |       |       |       |       |       |
| WTR YR 1986 | MEAN  | 19.25 | MAX   | 20.13 | MIN   | 17.19 |       |       |       |       |       |       |

## FISHEATING CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTHWEST

02259200 INDIAN PRAIRIE CANAL AT S-72, NEAR OKEECHOBEE, FL

LOCATION.--Lat 27°05'35", long 81°00'25", in SE¼ sec.10, T.39 S., R.33 E., Glades County, Hydrologic Unit 03090103, near left bank 230 ft upstream from control structure 72, 2.6 mi upstream from bridge on State Highway 78, and 15 mi southwest of Okeechobee.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage and deflection-meter recorders. Datum of gage is 9.0 ft above National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark).

REMARKS.--Estimated daily discharges: June 22-25. Records fair. Flow regulated by operation of structure 72, by storage releases upstream at structures 68, 75, and 82, and several small diversions for irrigation. Flow may be diverted to Harney Pond Canal by the combined operation of structures 70 and 75.

COOPERATION.--Gate-operation record provided by South Florida Water Management District.

AVERAGE DISCHARGE.--24 years, 43.2 ft<sup>3</sup>/s, 31,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,130 ft<sup>3</sup>/s, Oct. 3, 1969; maximum gage height, 14.21 ft, June 19, 1972; no flow for many days each year; minimum gage height, 6.55 ft, Oct. 11, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 636 ft<sup>3</sup>/s, Aug. 20,21; maximum gage height, 12.17 ft, July 13,24, Aug. 28; no flow for many days; minimum gage height, 9.10 ft, Oct. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY               | OCT     | NOV | DEC | JAN  | FEB  | MAR    | APR | MAY | JUN    | JUL     | AUG     | SEP    |
|-------------------|---------|-----|-----|------|------|--------|-----|-----|--------|---------|---------|--------|
| 1                 | .00     | .00 | .00 | .00  | .00  | .00    | .00 | .00 | .00    | .00     | .00     | 83     |
| 2                 | .00     | .00 | .00 | .00  | .00  | .00    | .00 | .00 | .00    | 149     | .00     | 79     |
| 3                 | .00     | .00 | .00 | .00  | .00  | .00    | .00 | .00 | .00    | 69      | .00     | 82     |
| 4                 | .00     | .00 | .00 | .00  | .00  | .00    | .00 | .00 | .00    | 80      | .00     | 82     |
| 5                 | .00     | .00 | .00 | .00  | .00  | .00    | .00 | .00 | .00    | 149     | .00     | .00    |
| 6                 | .00     | .00 | .00 | .00  | .00  | .00    | .00 | .00 | .00    | 127     | .00     | .00    |
| 7                 | .00     | .00 | .00 | .00  | .00  | .00    | .00 | .00 | .00    | 127     | .00     | .00    |
| 8                 | .00     | .00 | .00 | .00  | .00  | .00    | .00 | .00 | .00    | 98      | .00     | .00    |
| 9                 | .00     | .00 | .00 | .00  | .00  | .00    | .00 | .00 | .00    | 97      | .00     | .00    |
| 10                | .00     | .00 | .00 | .00  | .00  | 57     | .00 | .00 | .00    | 91      | .00     | .00    |
| 11                | .00     | .00 | .00 | .00  | .00  | 55     | .00 | .00 | .00    | .00     | .00     | .00    |
| 12                | .00     | .00 | .00 | .00  | .00  | .00    | .00 | .00 | .00    | 74      | .00     | .00    |
| 13                | .00     | .00 | .00 | .00  | .00  | .00    | .00 | .00 | .00    | 60      | .00     | .00    |
| 14                | .00     | .00 | .00 | .00  | .00  | 46     | .00 | .00 | .00    | .00     | .00     | .00    |
| 15                | .00     | .00 | .00 | .00  | .00  | .00    | .00 | .00 | .00    | 55      | .00     | .00    |
| 16                | .00     | .00 | .00 | .00  | .00  | .00    | .00 | .00 | .00    | .00     | 294     | .00    |
| 17                | .00     | .00 | .00 | .00  | .00  | .00    | .00 | .00 | .00    | .00     | 216     | .00    |
| 18                | .00     | .00 | .00 | .00  | .00  | .00    | .00 | .00 | .00    | .00     | 384     | .00    |
| 19                | .00     | .00 | .00 | .00  | .00  | .00    | .00 | .00 | .00    | .00     | 388     | .00    |
| 20                | .00     | .00 | .00 | .00  | .00  | .00    | .00 | .00 | .00    | .00     | 520     | .00    |
| 21                | .00     | .00 | .00 | .00  | .00  | .00    | .00 | .00 | .00    | .00     | 636     | .00    |
| 22                | .00     | .00 | .00 | .00  | .00  | .00    | .00 | .00 | 50     | .00     | 636     | .00    |
| 23                | .00     | .00 | .00 | .00  | .00  | .00    | .00 | .00 | 160    | .00     | 530     | .00    |
| 24                | .00     | .00 | .00 | .00  | .00  | .00    | .00 | .00 | 160    | 60      | 476     | .00    |
| 25                | .00     | .00 | .00 | .00  | .00  | .00    | .00 | .00 | 50     | .00     | 312     | .00    |
| 26                | .00     | .00 | .00 | .00  | .00  | .00    | .00 | .00 | .00    | .00     | 225     | .00    |
| 27                | .00     | .00 | .00 | .00  | .00  | .00    | .00 | .00 | .00    | .00     | 126     | .00    |
| 28                | .00     | .00 | .00 | .00  | .00  | .00    | .00 | .00 | .00    | .00     | 90      | .00    |
| 29                | .00     | .00 | .00 | .00  | ---  | .00    | .00 | .00 | .00    | .00     | 285     | .00    |
| 30                | .00     | .00 | .00 | .00  | ---  | .00    | .00 | .00 | .00    | .00     | 109     | .00    |
| 31                | .00     | --- | .00 | .00  | ---  | .00    | --- | .00 | ---    | .00     | 170     | ---    |
| TOTAL             | .00     | .00 | .00 | .00  | .00  | 158.00 | .00 | .00 | 420.00 | 1236.00 | 5397.00 | 326.00 |
| MEAN              | .00     | .00 | .00 | .00  | .00  | 5.10   | .00 | .00 | 14.0   | 39.9    | 174     | 10.9   |
| MAX               | .00     | .00 | .00 | .00  | .00  | 57     | .00 | .00 | 160    | 149     | 636     | 83     |
| MIN               | .00     | .00 | .00 | .00  | .00  | .00    | .00 | .00 | .00    | .00     | .00     | .00    |
| AC-FT             | .00     | .00 | .00 | .00  | .00  | 313    | .00 | .00 | 833    | 2450    | 10700   | 647    |
| CAL YR 1985 TOTAL | 74.00   |     |     | MEAN | .20  | MAX    | 74  | MIN | .00    | AC-FT   | 147     |        |
| WTR YR 1986 TOTAL | 7537.00 |     |     | MEAN | 20.6 | MAX    | 636 | MIN | .00    | AC-FT   | 14950   |        |



## FISHEATING CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTHWEST

02259200 INDIAN PRAIRIE CANAL AT S-72, NEAR OKEECHOBEE, FL

GAGE HEIGHT, IN FEET ABOVE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 11.68 | 10.34 | 10.88 | 10.85 | 11.57 | 10.89 | 11.33 | 10.70 | 10.64 | 11.86 | 11.92 | 11.74 |
| 2           | 11.62 | 10.56 | 11.12 | 10.77 | 11.61 | 10.84 | 11.73 | 10.78 | 10.73 | 11.80 | 11.85 | 11.77 |
| 3           | 11.49 | 10.67 | 11.14 | 10.70 | 11.54 | 10.75 | 11.74 | 10.85 | 10.77 | 11.73 | 11.70 | 11.80 |
| 4           | 11.42 | 10.97 | 11.12 | 10.73 | 11.37 | 10.67 | 11.14 | 11.06 | 10.76 | 11.77 | 11.62 | 11.86 |
| 5           | 11.50 | 11.63 | 11.27 | 10.82 | 11.40 | 10.76 | 10.45 | 11.15 | 10.87 | 11.72 | 11.64 | 11.72 |
| 6           | 11.52 | 11.63 | 11.50 | 10.95 | 11.41 | 11.05 | 9.94  | 11.08 | 11.04 | 11.80 | 11.62 | 11.69 |
| 7           | 11.48 | 10.93 | 11.52 | 10.97 | 11.36 | 11.18 | 9.62  | 10.97 | 11.12 | 11.69 | 11.54 | 11.62 |
| 8           | 11.38 | 10.30 | 11.61 | 10.99 | 11.29 | 11.27 | 9.50  | 10.92 | 11.17 | 11.77 | 11.50 | 11.60 |
| 9           | 11.23 | 9.96  | 11.53 | 10.96 | 11.26 | 11.36 | 10.26 | 10.84 | 11.13 | 11.76 | 11.44 | 11.57 |
| 10          | 11.06 | 9.75  | 10.97 | 11.11 | 11.18 | 11.67 | 10.66 | 10.90 | 10.67 | 11.73 | 11.34 | 11.71 |
| 11          | 10.98 | 9.64  | 10.56 | 11.39 | 11.04 | 11.71 | 10.80 | 10.97 | 10.34 | 11.98 | 11.22 | 11.75 |
| 12          | 10.91 | 9.58  | 10.26 | 11.45 | 11.04 | 11.91 | 10.86 | 10.97 | 10.04 | 11.70 | 11.15 | 11.67 |
| 13          | 10.81 | 9.94  | 10.06 | 11.42 | 10.96 | 12.01 | 10.95 | 10.85 | 9.72  | 11.90 | 11.16 | 11.57 |
| 14          | 10.72 | 10.63 | 9.86  | 11.26 | 10.98 | 11.74 | 11.03 | 10.77 | 9.51  | 11.90 | 11.30 | 11.61 |
| 15          | 10.57 | 10.86 | 9.69  | 11.33 | 11.03 | 11.80 | 11.01 | 10.73 | 9.50  | 11.82 | 11.58 | 11.62 |
| 16          | 10.38 | 10.67 | 9.73  | 11.30 | 10.87 | 11.88 | 10.99 | 10.71 | 9.46  | 11.88 | 11.71 | 11.60 |
| 17          | 10.26 | 10.57 | 10.36 | 11.16 | 10.81 | 11.88 | 10.95 | 10.75 | 9.63  | 11.97 | 11.69 | 11.56 |
| 18          | 10.14 | 10.40 | 10.69 | 11.27 | 10.78 | 11.85 | 10.93 | 10.85 | 10.53 | 11.93 | 11.70 | 11.46 |
| 19          | 9.90  | 10.10 | 10.89 | 11.61 | 10.81 | 11.84 | 10.92 | 10.81 | 11.02 | 11.90 | 11.67 | 11.41 |
| 20          | 9.65  | 10.49 | 11.06 | 11.59 | 10.74 | 11.76 | 10.86 | 10.64 | 11.32 | 11.86 | 11.66 | 11.34 |
| 21          | 9.27  | 10.79 | 11.17 | 11.43 | 10.63 | 11.74 | 10.88 | 10.07 | 11.54 | 11.80 | 11.63 | 11.28 |
| 22          | 9.32  | 10.66 | 11.22 | 11.55 | 10.79 | 11.74 | 10.84 | 9.96  | 11.80 | 11.68 | 11.68 | 11.22 |
| 23          | 10.21 | 10.21 | 11.19 | 11.62 | 10.88 | 11.72 | 10.85 | 10.60 | 11.72 | 11.49 | 11.65 | 11.16 |
| 24          | 10.74 | 9.94  | 11.07 | 11.69 | 10.95 | 11.76 | 10.90 | 10.92 | 11.70 | 11.34 | 11.61 | 11.09 |
| 25          | 10.93 | 9.65  | 10.53 | 11.74 | 11.01 | 11.79 | 10.90 | 11.03 | 11.73 | 11.15 | 11.61 | 11.02 |
| 26          | 10.82 | 9.24  | 10.32 | 11.81 | 11.00 | 11.45 | 10.91 | 11.07 | 11.97 | 11.31 | 11.63 | 10.94 |
| 27          | 10.77 | 9.20  | 10.69 | 11.76 | 10.94 | 11.24 | 11.02 | 10.91 | 12.04 | 11.50 | 11.55 | 10.88 |
| 28          | 10.73 | 9.95  | 10.88 | 11.47 | 10.86 | 11.04 | 11.02 | 10.72 | 12.00 | 11.57 | 11.63 | 10.82 |
| 29          | 10.68 | 10.47 | 10.96 | 11.38 | ---   | 10.75 | 10.85 | 10.65 | 11.96 | 11.61 | 11.53 | 10.71 |
| 30          | 10.73 | 10.72 | 10.99 | 11.48 | ---   | 10.51 | 10.75 | 10.58 | 11.85 | 11.63 | 11.53 | 10.62 |
| 31          | 10.64 | ---   | 10.96 | 11.50 | ---   | 10.58 | ---   | 10.61 | ---   | 11.75 | 11.62 | ---   |
| MEAN        | 10.76 | 10.35 | 10.83 | 11.29 | 11.08 | 11.39 | 10.82 | 10.79 | 10.94 | 11.72 | 11.57 | 11.41 |
| MAX         | 11.68 | 11.63 | 11.61 | 11.81 | 11.61 | 12.01 | 11.74 | 11.15 | 12.04 | 11.98 | 11.92 | 11.86 |
| MIN         | 9.27  | 9.20  | 9.69  | 10.70 | 10.63 | 10.51 | 9.50  | 9.96  | 9.46  | 11.15 | 11.15 | 10.62 |
| CAL YR 1985 | MEAN  | 9.65  | MAX   | 12.04 | MIN   | 7.03  |       |       |       |       |       |       |
| WTR YR 1986 | MEAN  | 11.08 | MAX   | 12.04 | MIN   | 9.20  |       |       |       |       |       |       |

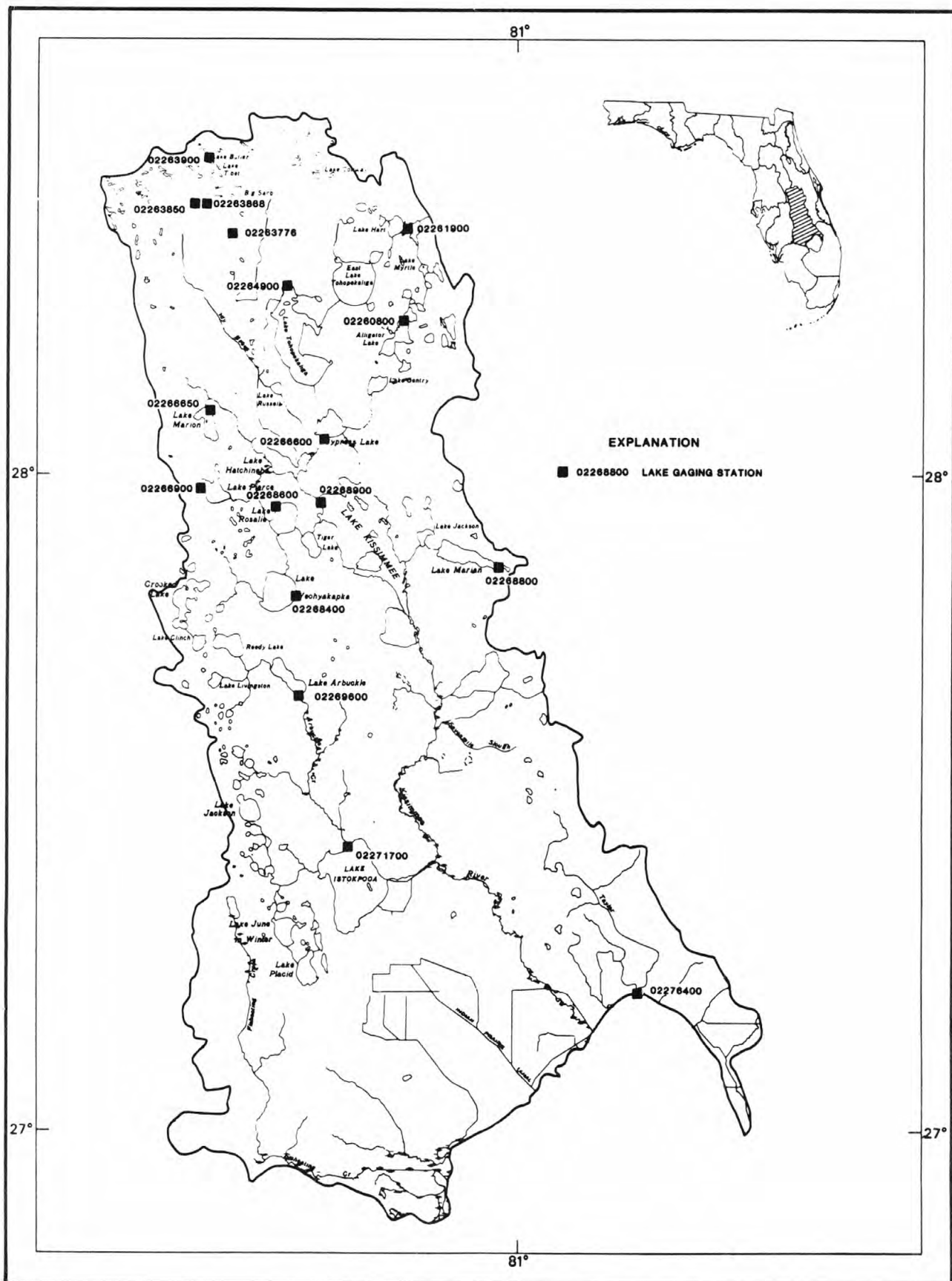


Figure 5. Location of lake gaging stations in the Kissimmee River basin; the Taylor Creek basin and inflow to Lake Okeechobee from the north; and Fisheating Creek basin and inflow to Lake Okeechobee from the northwest.

## SOUTH FLORIDA

31

## KISSIMMEE RIVER BASIN

## 02260800 ALLIGATOR LAKE NEAR ASHTON, FL

LOCATION.--Lat 28°13'53", long 81°11'20", in NW¼ sec.14, T.26 S., R.31 E., Osceola County, Hydrologic Unit 03090101, at northeast end of lake, on private pier about 1,200 ft southeast of canal connecting Alligator Lake and Lake Lizzie, and 3.5 mi east of Ashton.

SURFACE AREA.--3,401 acres (5.31 mi<sup>2</sup>).

DRAINAGE AREA.--26.6 mi<sup>2</sup>.

PERIOD OF RECORD.--November 1941 to current year. Records of elevations prior to October 1960 are unpublished and available in files of the Orlando Subdistrict Office.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Prior to May 31, 1967, at several sites within about 700 ft of present site at datum 60.74 ft higher and May 31, 1967 to Feb. 19, 1975, at several sites at same datum. Feb. 19, 1975 to Apr. 8, 1981, at site 350 ft north at present datum.

REMARKS.--Lake is one of the Kissimmee River headwaters chain of lakes. Subsequent to 1962, the improvement of canals and natural drains between these lakes and the construction of dams with gated controls has resulted in the partial regulation of lake elevations.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 66.81 ft, Sept. 25, 1960; minimum observed, 59.52 ft, June 10, 11, 1962.

EXTREMES OUTSIDE PERIOD OF RECORD.--An elevation of 67.7 ft was reached in June 1934, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 64.16 ft, Jan. 10; minimum observed, 61.98 ft, June 11.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
INSTANT VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 63.32 | 63.80 | 63.90 | 64.00 | 64.04 | 63.96 | 63.66 | 62.98 | 62.02 | 62.36 | 63.38 | 63.46 |
| 2           | 63.32 | 63.81 | 63.90 | 64.09 | 64.04 | 63.98 | 63.63 | 62.96 | 62.02 | 62.37 | 63.38 | 63.44 |
| 3           | 63.38 | 63.81 | 63.90 | 64.08 | 64.04 | 63.98 | 63.61 | 62.96 | 62.03 | 62.37 | 63.45 | 63.43 |
| 4           | 63.42 | 63.83 | 63.88 | 64.08 | 64.04 | 63.96 | 63.59 | 62.95 | 62.06 | 62.46 | 63.46 | 63.40 |
| 5           | 63.56 | 63.83 | 63.87 | 64.08 | 64.04 | 63.98 | 63.58 | 62.94 | 62.04 | 62.48 | 63.44 | 63.40 |
| 6           | 63.58 | 63.84 | 64.03 | 64.08 | 64.04 | 63.96 | 63.53 | 62.80 | 62.02 | 62.46 | 63.42 | 63.38 |
| 7           | 63.60 | 63.85 | 64.03 | 64.08 | 64.04 | 63.96 | 63.50 | 62.87 | 62.02 | 62.60 | 63.39 | 63.38 |
| 8           | 63.63 | 63.85 | 64.04 | 64.08 | 64.04 | 63.94 | 63.46 | 62.85 | 62.03 | 62.63 | 63.38 | 63.39 |
| 9           | 63.65 | 63.86 | 64.04 | 64.08 | 64.04 | 63.93 | 63.43 | 62.79 | 62.00 | 62.63 | 63.37 | 63.41 |
| 10          | 63.68 | 63.88 | 64.04 | 64.16 | 64.05 | 63.92 | 63.40 | 62.82 | 62.00 | 62.63 | 63.33 | 63.50 |
| 11          | 63.70 | 63.88 | 64.04 | 64.12 | 64.00 | 63.92 | 63.37 | 62.81 | 61.98 | 62.62 | 63.30 | 63.50 |
| 12          | 63.69 | 63.88 | 64.05 | 64.04 | 63.97 | 63.92 | 63.35 | 62.78 | 62.00 | 62.70 | 63.28 | 63.50 |
| 13          | 63.70 | 63.88 | 64.05 | 63.94 | 63.95 | 63.92 | 63.32 | 62.74 | 62.00 | 62.90 | 63.46 | 63.46 |
| 14          | 63.70 | 63.90 | 64.09 | 63.84 | 63.92 | 63.93 | 63.29 | 62.70 | 62.02 | 62.90 | 63.50 | 63.45 |
| 15          | 63.71 | 63.90 | 64.06 | 63.86 | 63.90 | 63.96 | 63.27 | 62.64 | 62.10 | 62.90 | 63.52 | 63.39 |
| 16          | 63.71 | 63.90 | 64.06 | 63.89 | 63.90 | 64.02 | 63.26 | 62.62 | 62.08 | 62.96 | 63.51 | 63.36 |
| 17          | 63.72 | 63.90 | 64.02 | 63.91 | 63.90 | 63.99 | 63.25 | 62.58 | 62.06 | 63.00 | 63.58 | 63.32 |
| 18          | 63.72 | 63.90 | 63.99 | 63.94 | 63.94 | 63.93 | 63.23 | 62.56 | 62.06 | 62.98 | 63.60 | 63.34 |
| 19          | 63.72 | 63.90 | 63.95 | 63.96 | 63.96 | 63.89 | 63.21 | 62.50 | 62.10 | 63.02 | 63.58 | 63.39 |
| 20          | 63.73 | 63.90 | 63.94 | 63.98 | 63.97 | 63.85 | 63.18 | 62.48 | 62.16 | 63.01 | 63.58 | 63.40 |
| 21          | 63.73 | 63.90 | 63.92 | 63.99 | 63.98 | 63.81 | 63.18 | 62.44 | 62.16 | 63.01 | 63.56 | 63.40 |
| 22          | 63.73 | 63.90 | 63.92 | 64.00 | 63.98 | 63.77 | 63.16 | 62.42 | 62.20 | 63.08 | 63.53 | 63.42 |
| 23          | 63.72 | 63.90 | 63.90 | 64.00 | 63.98 | 63.70 | 63.12 | 62.38 | 62.18 | 63.09 | 63.50 | 63.48 |
| 24          | 63.72 | 63.90 | 63.90 | 64.00 | 63.98 | 63.70 | 63.08 | 62.36 | 62.20 | 63.14 | 63.44 | 63.50 |
| 25          | 63.72 | 63.90 | 63.90 | 64.02 | 63.97 | 63.68 | 63.08 | 62.32 | 62.24 | 63.20 | 63.42 | 63.54 |
| 26          | 63.71 | 63.90 | 63.90 | 64.02 | 63.97 | 63.68 | 63.06 | 62.28 | 62.26 | 63.30 | 63.37 | 63.54 |
| 27          | 63.72 | 63.89 | 63.90 | 64.04 | 63.96 | 63.68 | 63.04 | 62.24 | 62.22 | 63.30 | 63.34 | 63.53 |
| 28          | 63.72 | 63.89 | 63.90 | 64.04 | 63.96 | 63.67 | 63.02 | 62.20 | 62.20 | 63.38 | 63.32 | 63.54 |
| 29          | 63.72 | 63.90 | 63.90 | 64.04 | ---   | 63.67 | 63.01 | 62.14 | 62.24 | 63.38 | 63.46 | 63.53 |
| 30          | 63.72 | 63.90 | 63.90 | 64.04 | ---   | 63.66 | 62.98 | 62.10 | 62.33 | 63.40 | 63.43 | 63.53 |
| 31          | 63.74 | ---   | 63.90 | 64.04 | ---   | 63.66 | ---   | 62.06 | ---   | 63.37 | 63.44 | ---   |
| MEAN        | 63.65 | 63.88 | 63.96 | 64.02 | 63.99 | 63.86 | 63.29 | 62.59 | 62.10 | 62.89 | 63.44 | 63.44 |
| MAX         | 63.74 | 63.90 | 64.09 | 64.16 | 64.05 | 64.02 | 63.66 | 62.98 | 62.33 | 63.40 | 63.60 | 63.54 |
| MIN         | 63.32 | 63.80 | 63.87 | 63.84 | 63.90 | 63.66 | 62.98 | 62.06 | 61.98 | 62.36 | 63.28 | 63.32 |
| CAL YR 1985 | MEAN  | 62.69 | MAX   | 64.09 | MIN   | 61.34 |       |       |       |       |       |       |
| WTR YR 1986 | MEAN  | 63.42 | MAX   | 64.16 | MIN   | 61.98 |       |       |       |       |       |       |

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

## 02261900 LAKE MARY JANE NEAR NARCOOSSEE, FL

LOCATION.--Lat 28°22'46", long 81°11'15", in SW¼ sec.23, T.24 S., R.31 E., Orange County, Hydrologic Unit 03090101, on west shore of lake, at public park about 1,000 ft south of Mary Jane-Hart Canal, 6.5 mi northeast of Narcoossee, and 11 mi northeast of St. Cloud.

SURFACE AREA.--1,161 acres (1.81 mi<sup>2</sup>).

DRAINAGE AREA.--124 mi<sup>2</sup>.

PERIOD OF RECORD.--November 1949 to current year. Records of elevations prior to October 1960 are unpublished and available in files of the Orlando Subdistrict Office.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Prior to Nov. 26, 1973, water-stage recorder at datum 56.66 ft higher.

REMARKS.--Lake is one of the Kissimmee River headwaters chain of lakes. Subsequent to 1962, the improvement of canals and natural drains between these lakes and the construction of dams with gated controls has resulted in the partial regulation of lake stages.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 64.81 ft, Mar. 20, 1960; minimum daily, 56.89 ft, May 31, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation recorded, 61.20 ft, Jan. 11, but may have been higher during period of no gage-height record Jan. 14 to Feb. 18; minimum daily, 59.16 ft, June 10.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 60.13 | 60.63 | 60.65 | 60.93 | ---   | 60.83 | 60.53 | 60.10 | 59.26 | 59.44 | 59.89 | 59.97 |
| 2           | 60.18 | 60.65 | 60.64 | 61.07 | ---   | 60.82 | 60.53 | 60.08 | 59.25 | 59.44 | 59.84 | 59.99 |
| 3           | 60.21 | 60.70 | 60.62 | 61.11 | ---   | 60.83 | 60.52 | 60.06 | 59.24 | 59.44 | 59.80 | 59.98 |
| 4           | 60.25 | 60.80 | 60.60 | 61.13 | ---   | 60.85 | 60.51 | 60.04 | 59.23 | 59.48 | 59.76 | 59.93 |
| 5           | 60.28 | 60.81 | 60.67 | 61.15 | ---   | 60.87 | 60.50 | 60.01 | 59.21 | 59.49 | 59.74 | 59.86 |
| 6           | 60.30 | 60.82 | 60.76 | 61.16 | ---   | 60.88 | 60.48 | 60.00 | 59.20 | 59.50 | 59.72 | 59.86 |
| 7           | 60.30 | 60.84 | 60.78 | 61.12 | ---   | 60.88 | 60.48 | 59.99 | 59.20 | 59.55 | 59.71 | 59.88 |
| 8           | 60.30 | 60.86 | 60.80 | 61.06 | ---   | 60.88 | 60.47 | 59.97 | 59.18 | 59.55 | 59.70 | 59.88 |
| 9           | 60.33 | 60.88 | 60.84 | 60.97 | ---   | 60.89 | 60.45 | 59.97 | 59.17 | 59.54 | 59.69 | 59.87 |
| 10          | 60.37 | 60.91 | 60.90 | 61.07 | ---   | 60.90 | 60.43 | 59.99 | 59.16 | 59.52 | 59.67 | 59.88 |
| 11          | 60.39 | 60.96 | 60.95 | 61.20 | ---   | 60.92 | 60.42 | 59.97 | 59.19 | 59.57 | 59.65 | 59.86 |
| 12          | 60.42 | 61.01 | 60.98 | 61.17 | ---   | 60.92 | 60.40 | 59.95 | 59.23 | 59.72 | 59.70 | 59.82 |
| 13          | 60.44 | 61.04 | 61.01 | 61.11 | ---   | 60.93 | 60.41 | 59.88 | 59.29 | 59.83 | 59.79 | 59.78 |
| 14          | 60.46 | 61.06 | 61.05 | ---   | ---   | 60.97 | 60.39 | 59.81 | 59.31 | 59.86 | 59.85 | 59.76 |
| 15          | 60.48 | 61.08 | 61.02 | ---   | ---   | 60.96 | 60.39 | 59.75 | 59.37 | 59.87 | 59.88 | 59.77 |
| 16          | 60.50 | 61.06 | 61.00 | ---   | ---   | 60.93 | 60.38 | 59.67 | 59.37 | 59.88 | 59.91 | 59.74 |
| 17          | 60.52 | 61.03 | 60.97 | ---   | ---   | 60.83 | 60.34 | 59.60 | 59.38 | 59.89 | 59.94 | 59.74 |
| 18          | 60.52 | 61.00 | 60.94 | ---   | ---   | 60.80 | 60.32 | 59.53 | 59.39 | 59.91 | 59.96 | 59.76 |
| 19          | 60.52 | 60.93 | 60.92 | ---   | 60.78 | 60.77 | 60.30 | 59.47 | 59.43 | 60.01 | 59.97 | 59.78 |
| 20          | 60.51 | 60.89 | 60.89 | ---   | 60.77 | 60.74 | 60.29 | 59.46 | 59.45 | 60.02 | 60.01 | 59.78 |
| 21          | 60.51 | 60.86 | 60.86 | ---   | 60.77 | 60.68 | 60.29 | 59.46 | 59.46 | 60.02 | 60.07 | 59.79 |
| 22          | 60.50 | 60.84 | 60.83 | ---   | 60.77 | 60.61 | 60.26 | 59.46 | 59.52 | 60.01 | 60.15 | 59.78 |
| 23          | 60.49 | 60.82 | 60.80 | ---   | 60.76 | 60.53 | 60.23 | 59.44 | 59.51 | 60.01 | 60.09 | 59.82 |
| 24          | 60.48 | 60.81 | 60.79 | ---   | 60.75 | 60.48 | 60.21 | 59.42 | 59.50 | 60.01 | 60.02 | 59.86 |
| 25          | 60.47 | 60.79 | 60.81 | ---   | 60.73 | 60.49 | 60.19 | 59.40 | 59.49 | 60.01 | 59.94 | 59.89 |
| 26          | 60.46 | 60.77 | 60.79 | ---   | 60.74 | 60.52 | 60.18 | 59.38 | 59.49 | 60.03 | 59.90 | 59.90 |
| 27          | 60.46 | 60.74 | 60.79 | ---   | 60.77 | 60.53 | 60.17 | 59.36 | 59.48 | 60.04 | 59.86 | 59.90 |
| 28          | 60.49 | 60.71 | 60.78 | ---   | 60.81 | 60.54 | 60.15 | 59.34 | 59.46 | 60.06 | 59.86 | 59.90 |
| 29          | 60.51 | 60.69 | 60.79 | ---   | ---   | 60.54 | 60.14 | 59.32 | 59.45 | 60.02 | 59.89 | 59.89 |
| 30          | 60.55 | 60.66 | 60.79 | ---   | ---   | 60.54 | 60.12 | 59.30 | 59.45 | 59.98 | 59.89 | 59.89 |
| 31          | 60.59 | ---   | 60.79 | ---   | ---   | 60.54 | ---   | 59.28 | ---   | 59.93 | 59.93 | ---   |
| MEAN        | 60.42 | 60.85 | 60.83 | ---   | ---   | 60.75 | 60.35 | 59.69 | 59.34 | 59.79 | 59.86 | 59.85 |
| MAX         | 60.59 | 61.08 | 61.05 | ---   | ---   | 60.97 | 60.53 | 60.10 | 59.52 | 60.06 | 60.15 | 59.99 |
| MIN         | 60.13 | 60.63 | 60.60 | ---   | ---   | 60.48 | 60.12 | 59.28 | 59.16 | 59.44 | 59.65 | 59.74 |
| CAL YR 1985 | MEAN  | 59.98 | MAX   | 61.08 | MIN   | 59.10 |       |       |       |       |       |       |



## 33

LOCATION.--Lat 28°22'16", long 81°18'39", in NE¼ sec.28, T.24 S., R.30 E., Orange County, Hydrologic Unit 03090101, on left bank 450 ft downstream from Boggy Creek Swamp, 2.0 mi upstream from bridge on State Highway 530, 3.5 mi upstream from mouth, and 5.5 mi southeast of Taft.

GAGE.--Water-stage recorder. Datum of gage is 56.08 ft above National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Auxiliary water-stage recorder on the south side of East Lake Tohopekaliga since Oct. 1, 1973, and prior to July 19, 1968. From July 19, 1968, to Sept. 30, 1973, auxiliary water-stage recorder at St. Cloud Canal above S-59.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 445 ft<sup>3</sup>/s, Jan. 12, gage height, 8.27 ft; minimum discharge 0.10 ft<sup>3</sup>/s, June 1, 2, gage height, 1.81 ft

| DAY         | OCT   | NOV      | DEC  | JAN  | FEB  | MAR  | APR   | MAY    | JUN    | JUL  | AUG  | SEP  |      |       |       |
|-------------|-------|----------|------|------|------|------|-------|--------|--------|------|------|------|------|-------|-------|
| 1           | 79    | 21       | 11   | 80   | 48   | 31   | 21    | 3.1    | .27    | 19   | 30   | 32   |      |       |       |
| 2           | 73    | 20       | 11   | 115  | 46   | 29   | 19    | 2.9    | .19    | 20   | 24   | 35   |      |       |       |
| 3           | 68    | 20       | 11   | 102  | 42   | 26   | 17    | 2.7    | .38    | 23   | 23   | 30   |      |       |       |
| 4           | 74    | 21       | 11   | 83   | 39   | 26   | 16    | 2.7    | 1.3    | 27   | 20   | 27   |      |       |       |
| 5           | 95    | 18       | 33   | 78   | 39   | 27   | 14    | 2.8    | 2.2    | 27   | 17   | 23   |      |       |       |
| 6           | 124   | 16       | 49   | 75   | 37   | 25   | 14    | 5.6    | 2.1    | 28   | 17   | 20   |      |       |       |
| 7           | 117   | 15       | 47   | 71   | 34   | 23   | 14    | 12     | 2.2    | 40   | 18   | 18   |      |       |       |
| 8           | 104   | 14       | 44   | 70   | 46   | 19   | 13    | 11     | 2.1    | 38   | 22   | 19   |      |       |       |
| 9           | 116   | 16       | 35   | 67   | 69   | 18   | 13    | 6.4    | 2.6    | 30   | 27   | 38   |      |       |       |
| 10          | 114   | 17       | 30   | 176  | 76   | 19   | 13    | 5.0    | 10     | 25   | 29   | 41   |      |       |       |
| 11          | 101   | 18       | 26   | 373  | 72   | 20   | 12    | 4.9    | 29     | 25   | 24   | 48   |      |       |       |
| 12          | 90    | 18       | 24   | 422  | 72   | 19   | 10    | 4.6    | 23     | 26   | 23   | 50   |      |       |       |
| 13          | 76    | 17       | 23   | 416  | 94   | 18   | 16    | 3.9    | 21     | 22   | 32   | 83   |      |       |       |
| 14          | 65    | 16       | 31   | 350  | 90   | 28   | 14    | 2.8    | 20     | 16   | 50   | 87   |      |       |       |
| 15          | 58    | 15       | 29   | 282  | 67   | 48   | 13    | 2.1    | 25     | 13   | 53   | 76   |      |       |       |
| 16          | 54    | 14       | 32   | 236  | 50   | 101  | 11    | 1.7    | 28     | 11   | 62   | 66   |      |       |       |
| 17          | 50    | 14       | 29   | 216  | 46   | 113  | 9.5   | 1.2    | 29     | 11   | 60   | 59   |      |       |       |
| 18          | 46    | 13       | 26   | 201  | 66   | 95   | 8.4   | .95    | 25     | 14   | 52   | 54   |      |       |       |
| 19          | 43    | 12       | 26   | 180  | 66   | 77   | 7.7   | .82    | 28     | 18   | 50   | 54   |      |       |       |
| 20          | 38    | 13       | 24   | 154  | 60   | 71   | 7.5   | 2.9    | 54     | 13   | 53   | 79   |      |       |       |
| 21          | 35    | 13       | 20   | 137  | 53   | 66   | 7.2   | 7.5    | 83     | 12   | 61   | 88   |      |       |       |
| 22          | 31    | 12       | 18   | 117  | 45   | 57   | 6.8   | 8.5    | 84     | 14   | 66   | 84   |      |       |       |
| 23          | 29    | 12       | 16   | 103  | 37   | 52   | 6.0   | 5.4    | 77     | 16   | 65   | 78   |      |       |       |
| 24          | 28    | 12       | 17   | 92   | 35   | 45   | 5.6   | 3.9    | 62     | 20   | 65   | 72   |      |       |       |
| 25          | 26    | 11       | 22   | 83   | 31   | 38   | 5.2   | 2.9    | 53     | 28   | 56   | 62   |      |       |       |
| 26          | 24    | 11       | 19   | 78   | 28   | 34   | 4.9   | 2.4    | 55     | 43   | 47   | 50   |      |       |       |
| 27          | 22    | 11       | 20   | 72   | 27   | 32   | 4.5   | 2.0    | 48     | 50   | 40   | 42   |      |       |       |
| 28          | 22    | 12       | 20   | 65   | 30   | 31   | 4.1   | 1.6    | 39     | 45   | 33   | 36   |      |       |       |
| 29          | 21    | 11       | 19   | 61   | ---  | 29   | 3.7   | 1.2    | 30     | 42   | 30   | 31   |      |       |       |
| 30          | 21    | 10       | 17   | 55   | ---  | 26   | 3.3   | .77    | 23     | 38   | 31   | 26   |      |       |       |
| 31          | 21    | ---      | 17   | 49   | ---  | 23   | ---   | .47    | ---    | 32   | 26   | ---  |      |       |       |
| TOTAL       | 1865  | 443      | 757  | 4659 | 1445 | 1266 | 314.4 | 116.71 | 859.34 | 786  | 1206 | 1508 |      |       |       |
| MEAN        | 60.2  | 14.8     | 24.4 | 150  | 51.6 | 40.8 | 10.5  | 3.76   | 28.6   | 25.4 | 38.9 | 50.3 |      |       |       |
| MAX         | 124   | 21       | 49   | 422  | 94   | 113  | 21    | 12     | 84     | 50   | 66   | 88   |      |       |       |
| MIN         | 21    | 10       | 11   | 49   | 27   | 18   | 3.3   | .47    | .19    | 11   | 17   | 18   |      |       |       |
| CFSM        | .72   | .18      | .29  | 1.79 | .62  | .49  | .13   | .04    | .34    | .30  | .47  | .60  |      |       |       |
| IN.         | .83   | .20      | .34  | 2.07 | .64  | .56  | .14   | .05    | .38    | .35  | .54  | .67  |      |       |       |
| AC-FT       | 3700  | 879      | 1500 | 9240 | 2870 | 2510 | 624   | 231    | 1700   | 1560 | 2390 | 2990 |      |       |       |
| CAL YR 1985 | TOTAL | 12121.48 |      | MEAN | 33.2 | MAX  | 221   | MIN    | .00    | CFSM | .40  | IN.  | 5.39 | AC-FT | 24040 |
| WTR YR 1986 | TOTAL | 15225.45 |      | MEAN | 41.7 | MAX  | 422   | MIN    | .19    | CFSM | .50  | IN.  | 6.77 | AC-FT | 30200 |

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02263776 LAKE BRYAN NEAR VINELAND, FL

LOCATION.--Lat 28°21'46", long 81°29'57", in SE¼ sec.27, T.24 S., R.28 E., Orange County, Hydrologic Unit 03090101, on west shore of lake, 1.1 mi south of intersection of Interstate Highway 4 and State Highway 535, and 2.2 mi south of Vineland.

SURFACE AREA.--210 acres (0.33 mi<sup>2</sup>).

DRAINAGE AREA.--2.70 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1969 to current year (fragmentary).

REVISED RECORDS.--WDR FL-72-2: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (Orange County bench mark).

REMARKS.--Outflow from lake is to Shingle Creek.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 100.33 ft on or about Aug. 11, 1984, from floodmarks; minimum observed, 95.64 ft, May 8, 1981.

## ELEVATION, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE  | TIME | ELEV-<br>ATION<br>ABOVE<br>NGVD<br>(FEET) | DATE  | TIME | ELEV-<br>ATION<br>ABOVE<br>NGVD<br>(FEET) |
|-------|------|-------------------------------------------|-------|------|-------------------------------------------|
| OCT   |      |                                           | APR   |      |                                           |
| 28... | 1100 | 99.39                                     | 11... | 0955 | 98.84                                     |
| DEC   |      |                                           | JUN   |      |                                           |
| 16... | 1105 | 99.02                                     | 12... | 1000 | 97.98                                     |
| FEB   |      |                                           | AUG   |      |                                           |
| 12... | 1155 | 99.39                                     | 07... | 1217 | 98.85                                     |

## SOUTH FLORIDA

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## KISSIMMEE RIVER BASIN

02263800 SHINGLE CREEK AT AIRPORT, NEAR KISSIMMEE, FL

LOCATION.--Lat 28°18'14", long 81°27'04", in NW¼ sec.19, T.25 S., R.29 E., Osceola County, Hydrologic Unit 03090101, near center of span on downstream side of bridge on U.S. Highway 192, 1.0 mi northwest of Kissimmee Airport, 3.0 mi west of Kissimmee, and 5.6 mi upstream from mouth.

DRAINAGE AREA.--89.2 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 60.66 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: May 5 to June 25. Records good except for estimated daily discharges, which are fair.

AVERAGE DISCHARGE.--28 years, 70.6 ft<sup>3</sup>/s, 10.75 in/yr, 52,150 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,320 ft<sup>3</sup>/s, Mar. 18, 1960, gage height, 11.00 ft; no flow for many days in some years; minimum gage height, 2.21 ft, June 9, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 770 ft<sup>3</sup>/s, Jan. 13, gage height, 8.53 ft; minimum daily discharge, 21 ft<sup>3</sup>/s, June 1, 2; minimum gage height recorded, 4.42 ft, May 4, but may have been less during period of no gage-height record May 5 to June 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY               | OCT   | NOV  | DEC  | JAN   | FEB     | MAR    | APR       | MAY       | JUN         | JUL  | AUG   | SEP  |
|-------------------|-------|------|------|-------|---------|--------|-----------|-----------|-------------|------|-------|------|
| 1                 | 175   | 57   | 34   | 100   | 77      | 61     | 49        | 32        | 21          | 117  | 170   | 114  |
| 2                 | 154   | 55   | 34   | 128   | 74      | 60     | 46        | 31        | 21          | 94   | 159   | 119  |
| 3                 | 144   | 55   | 34   | 146   | 71      | 59     | 43        | 30        | 23          | 82   | 162   | 121  |
| 4                 | 178   | 57   | 33   | 165   | 69      | 59     | 41        | 29        | 26          | 89   | 147   | 121  |
| 5                 | 248   | 54   | 45   | 182   | 67      | 61     | 40        | 28        | 30          | 100  | 135   | 117  |
| 6                 | 322   | 50   | 60   | 185   | 64      | 58     | 39        | 28        | 30          | 93   | 154   | 114  |
| 7                 | 347   | 47   | 66   | 173   | 63      | 53     | 38        | 27        | 29          | 92   | 162   | 106  |
| 8                 | 335   | 45   | 80   | 159   | 71      | 49     | 37        | 26        | 34          | 89   | 176   | 96   |
| 9                 | 314   | 44   | 88   | 144   | 91      | 48     | 36        | 25        | 40          | 93   | 190   | 103  |
| 10                | 291   | 45   | 81   | 197   | 96      | 48     | 36        | 26        | 52          | 97   | 196   | 126  |
| 11                | 262   | 45   | 68   | 308   | 107     | 47     | 35        | 25        | 58          | 116  | 198   | 129  |
| 12                | 231   | 44   | 58   | 478   | 117     | 47     | 35        | 24        | 62          | 126  | 197   | 145  |
| 13                | 198   | 43   | 52   | 745   | 116     | 45     | 39        | 24        | 78          | 106  | 202   | 161  |
| 14                | 169   | 43   | 61   | 678   | 116     | 46     | 40        | 23        | 88          | 87   | 207   | 181  |
| 15                | 142   | 43   | 65   | 510   | 117     | 61     | 40        | 24        | 98          | 67   | 220   | 186  |
| 16                | 121   | 42   | 81   | 403   | 112     | 110    | 39        | 24        | 112         | 51   | 227   | 178  |
| 17                | 105   | 41   | 96   | 347   | 102     | 129    | 38        | 23        | 124         | 46   | 226   | 161  |
| 18                | 96    | 40   | 96   | 301   | 98      | 138    | 38        | 22        | 118         | 42   | 283   | 143  |
| 19                | 89    | 40   | 85   | 258   | 91      | 147    | 36        | 22        | 150         | 42   | 253   | 127  |
| 20                | 82    | 40   | 73   | 217   | 85      | 148    | 35        | 22        | 180         | 46   | 223   | 115  |
| 21                | 75    | 40   | 63   | 183   | 80      | 141    | 35        | 23        | 178         | 51   | 197   | 122  |
| 22                | 70    | 40   | 57   | 155   | 76      | 125    | 34        | 24        | 190         | 56   | 176   | 142  |
| 23                | 66    | 39   | 51   | 133   | 72      | 107    | 33        | 26        | 220         | 65   | 164   | 148  |
| 24                | 63    | 39   | 49   | 118   | 68      | 90     | 32        | 28        | 250         | 65   | 161   | 141  |
| 25                | 61    | 39   | 54   | 108   | 63      | 79     | 32        | 27        | 235         | 66   | 162   | 125  |
| 26                | 58    | 38   | 57   | 103   | 58      | 73     | 37        | 26        | 225         | 72   | 159   | 107  |
| 27                | 56    | 37   | 59   | 100   | 55      | 68     | 39        | 25        | 209         | 83   | 152   | 89   |
| 28                | 56    | 35   | 59   | 95    | 55      | 63     | 35        | 24        | 191         | 90   | 142   | 75   |
| 29                | 59    | 35   | 58   | 90    | ---     | 59     | 33        | 23        | 169         | 105  | 128   | 64   |
| 30                | 59    | 34   | 55   | 87    | ---     | 55     | 33        | 22        | 144         | 133  | 118   | 57   |
| 31                | 57    | ---  | 52   | 82    | ---     | 52     | ---       | 22        | ---         | 156  | 115   | ---  |
| TOTAL             | 4683  | 1306 | 1904 | 7078  | 2331    | 2386   | 1123      | 785       | 3385        | 2617 | 5561  | 3733 |
| MEAN              | 151   | 43.5 | 61.4 | 228   | 83.3    | 77.0   | 37.4      | 25.3      | 113         | 84.4 | 179   | 124  |
| MAX               | 347   | 57   | 96   | 745   | 117     | 148    | 49        | 32        | 250         | 156  | 283   | 186  |
| MIN               | 56    | 34   | 33   | 82    | 55      | 45     | 32        | 22        | 21          | 42   | 115   | 57   |
| CFSM              | 1.69  | .49  | .69  | 2.56  | .93     | .86    | .42       | .28       | 1.27        | .95  | 2.01  | 1.39 |
| IN.               | 1.95  | .54  | .79  | 2.95  | .97     | .00    | .47       | .33       | 1.41        | 1.09 | 2.32  | 1.56 |
| AC-FT             | 9290  | 2590 | 3780 | 14040 | 4620    | 4730   | 2230      | 1560      | 6710        | 5190 | 11030 | 7400 |
| CAL YR 1985 TOTAL | 32414 |      |      | 88.8  | MAX 412 | MIN 21 | CFSM .00  | IN. 13.52 | AC-FT 64290 |      |       |      |
| WTR YR 1986 TOTAL | 36892 |      |      | 101   | MAX 745 | MIN 21 | CFSM 1.13 | IN. 15.39 | AC-FT 73180 |      |       |      |

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02263850 BAY LAKE NEAR VINELAND, FL

LOCATION.--Lat 28°24'48", long 81°33'28", in NW¼ sec.7, T.24 S., R.28 E., Orange County, Hydrologic Unit 03090101, on right bank at upstream wingwall of control structure 105A in lateral 105, 200 ft south of natural lake shore line, and 3.5 mi northwest of Vineland.

SURFACE AREA.--436 acres (0.68 mi<sup>2</sup>).

DRAINAGE AREA.--14.8 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1967 to September 1969, October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Walt Disney World bench mark). Prior to Feb. 7, 1969, on north shore of lake at datum 90.00 ft higher.

REMARKS.--Outflow from lake is through L-105 to Bonnet Creek since fall of 1968. In the fall of 1968, structure 105A was completed and became the control outlet of the lake. Draining of Bay Lake through S-105A began on Dec. 20, 1968. The headwater elevation at S-105A represented the lake level until Aug. 25, 1969, when a dike was constructed 200 ft upstream from the control structure. The lake elevation was then independent of the headwater elevation at S-105A. The dike was removed in August 1970 as the lake refilled. Since August 1970, lake elevation regulated by pumpage from ground water.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 95.07 ft, Aug. 18, 1967; minimum, 92.55 ft, May 24, 1968, except when lake was drained in 1970.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 94.51 | 94.30 | 94.02 | 94.27 | 94.20 | 94.22 | 93.92 | 93.58 | 93.23 | 94.11 | 94.38 | 94.56 |
| 2           | 94.50 | 94.28 | 94.05 | 94.30 | 94.20 | 94.19 | 93.91 | 93.58 | 93.27 | 94.12 | 94.39 | 94.54 |
| 3           | 94.56 | 94.25 | 94.06 | 94.31 | 94.19 | 94.18 | 93.90 | 93.57 | 93.42 | 94.12 | 94.49 | 94.52 |
| 4           | 94.66 | 94.27 | 94.04 | 94.31 | 94.19 | 94.17 | 93.89 | 93.56 | 93.52 | 94.17 | 94.55 | 94.50 |
| 5           | 94.59 | 94.23 | 94.10 | 94.33 | 94.19 | 94.18 | 93.87 | 93.54 | 93.55 | 94.23 | 94.61 | 94.51 |
| 6           | 94.56 | 94.19 | 94.19 | 94.32 | 94.19 | 94.17 | 93.86 | 93.52 | 93.55 | 94.24 | 94.59 | 94.54 |
| 7           | 94.52 | 94.17 | 94.16 | 94.32 | 94.19 | 94.16 | 93.85 | 93.52 | 93.54 | 94.24 | 94.56 | 94.54 |
| 8           | 94.49 | 94.16 | 94.15 | 94.35 | 94.21 | 94.15 | 93.84 | 93.52 | 93.54 | 94.24 | 94.55 | 94.53 |
| 9           | 94.48 | 94.15 | 94.15 | 94.36 | 94.24 | 94.14 | 93.83 | 93.51 | 93.55 | 94.24 | 94.54 | 94.56 |
| 10          | 94.47 | 94.15 | 94.14 | 94.58 | 94.24 | 94.15 | 93.81 | 93.48 | 93.61 | 94.23 | 94.55 | 94.60 |
| 11          | 94.46 | 94.15 | 94.13 | 94.71 | 94.27 | 94.16 | 93.79 | 93.45 | 93.60 | 94.23 | 94.55 | 94.58 |
| 12          | 94.45 | 94.14 | 94.13 | 94.65 | 94.30 | 94.16 | 93.78 | 93.44 | 93.61 | 94.23 | 94.55 | 94.57 |
| 13          | 94.44 | 94.13 | 94.14 | 94.58 | 94.27 | 94.16 | 93.80 | 93.43 | 93.65 | 94.24 | 94.60 | 94.60 |
| 14          | 94.43 | 94.13 | 94.28 | 94.46 | 94.25 | 94.18 | 93.79 | 93.41 | 93.71 | 94.24 | 94.59 | 94.57 |
| 15          | 94.42 | 94.13 | 94.24 | 94.35 | 94.24 | 94.24 | 93.78 | 93.39 | 93.75 | 94.24 | 94.59 | 94.56 |
| 16          | 94.41 | 94.12 | 94.23 | 94.31 | 94.23 | 94.34 | 93.77 | 93.37 | 93.77 | 94.23 | 94.57 | 94.54 |
| 17          | 94.40 | 94.11 | 94.21 | 94.29 | 94.23 | 94.28 | 93.73 | 93.35 | 93.82 | 94.23 | 94.56 | 94.52 |
| 18          | 94.39 | 94.10 | 94.20 | 94.30 | 94.24 | 94.18 | 93.71 | 93.34 | 93.82 | 94.22 | 94.55 | 94.52 |
| 19          | 94.38 | 94.09 | 94.19 | 94.31 | 94.24 | 94.13 | 93.69 | 93.34 | 93.86 | 94.22 | 94.54 | 94.54 |
| 20          | 94.36 | 94.09 | 94.18 | 94.30 | 94.24 | 94.13 | 93.68 | 93.35 | 93.95 | 94.21 | 94.56 | 94.52 |
| 21          | 94.36 | 94.09 | 94.17 | 94.28 | 94.24 | 94.12 | 93.67 | 93.39 | 93.96 | 94.19 | 94.57 | 94.51 |
| 22          | 94.35 | 94.08 | 94.15 | 94.27 | 94.23 | 94.07 | 93.65 | 93.39 | 94.00 | 94.17 | 94.60 | 94.49 |
| 23          | 94.35 | 94.07 | 94.14 | 94.27 | 94.23 | 94.03 | 93.62 | 93.38 | 94.07 | 94.20 | 94.59 | 94.47 |
| 24          | 94.33 | 94.06 | 94.13 | 94.27 | 94.23 | 94.00 | 93.61 | 93.37 | 94.09 | 94.24 | 94.56 | 94.46 |
| 25          | 94.32 | 94.06 | 94.18 | 94.26 | 94.22 | 93.98 | 93.61 | 93.36 | 94.14 | 94.23 | 94.55 | 94.45 |
| 26          | 94.31 | 94.05 | 94.15 | 94.27 | 94.20 | 93.97 | 93.61 | 93.35 | 94.14 | 94.29 | 94.54 | 94.44 |
| 27          | 94.30 | 94.04 | 94.14 | 94.27 | 94.20 | 93.97 | 93.60 | 93.34 | 94.13 | 94.39 | 94.55 | 94.43 |
| 28          | 94.30 | 94.03 | 94.14 | 94.23 | 94.21 | 93.97 | 93.60 | 93.32 | 94.13 | 94.40 | 94.54 | 94.42 |
| 29          | 94.30 | 94.03 | 94.15 | 94.21 | ---   | 93.96 | 93.60 | 93.31 | 94.12 | 94.40 | 94.52 | 94.40 |
| 30          | 94.29 | 94.02 | 94.13 | 94.21 | ---   | 93.95 | 93.59 | 93.25 | 94.11 | 94.40 | 94.55 | 94.38 |
| 31          | 94.29 | ---   | 94.13 | 94.20 | ---   | 93.93 | ---   | 93.24 | ---   | 94.39 | 94.58 | ---   |
| MEAN        | 94.42 | 94.13 | 94.15 | 94.34 | 94.23 | 94.12 | 93.75 | 93.42 | 93.77 | 94.24 | 94.55 | 94.51 |
| MAX         | 94.66 | 94.30 | 94.28 | 94.71 | 94.30 | 94.34 | 93.92 | 93.58 | 94.14 | 94.40 | 94.61 | 94.60 |
| MIN         | 94.29 | 94.02 | 94.02 | 94.20 | 94.19 | 93.93 | 93.59 | 93.24 | 93.23 | 94.11 | 94.38 | 94.38 |
| CAL YR 1985 | MEAN  | 93.84 | MAX   | 94.66 | MIN   | 93.17 |       |       |       |       |       |       |
| WTR YR 1986 | MEAN  | 94.13 | MAX   | 94.71 | MIN   | 93.23 |       |       |       |       |       |       |



## SOUTH FLORIDA

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## KISSIMMEE RIVER BASIN

## 02263868 SOUTH LAKE NEAR VINELAND, FL

LOCATION.--Lat 28°24'45", long 81°32'17", in SW¼ sec.8, T.24 S., R.28 E., Orange County, Hydrologic Unit 03090101, on right bank at upstream wingwall of control structure 15 in Canal No. 1, 300 ft south of natural lake shoreline, 1,600 ft west of State Highway 535, and 2.4 mi northwest of Vineland.

SURFACE AREA.--128 acres (0.20 mi<sup>2</sup>).

DRAINAGE AREA.--4.0 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--April 1969 to current year. June 1972 to September 1982 records of discharge also published as South Lake Outlet at S-15, near Vineland (station 02263869).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Walt Disney World bench mark).

REMARKS.--Since January 1969, lake controlled by structure 15. Outflow is to Bonnet Creek through Canal No. 1.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 94.39 ft, Aug. 18, 1982; minimum daily, 90.62 ft, July 16, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 92.98 | 93.13 | 92.87 | 93.22 | 93.91 | 93.86 | 93.77 | 93.20 | 92.60 | 93.26 | 93.56 | 93.72 |
| 2           | 92.98 | 93.13 | 92.89 | 93.27 | 93.91 | 93.84 | 93.74 | 93.17 | 92.61 | 93.26 | 93.57 | 93.71 |
| 3           | 93.03 | 93.10 | 92.92 | 93.29 | 93.89 | 93.83 | 93.72 | 93.16 | 92.69 | 93.26 | 93.66 | 93.69 |
| 4           | 93.20 | 93.09 | 92.91 | 93.29 | 93.88 | 93.82 | 93.71 | 93.13 | 92.79 | 93.31 | 93.69 | 93.70 |
| 5           | 93.23 | 93.07 | 92.95 | 93.31 | 93.88 | 93.81 | 93.70 | 93.11 | 92.82 | 93.39 | 93.80 | 93.70 |
| 6           | 93.28 | 93.04 | 93.05 | 93.33 | 93.89 | 93.80 | 93.68 | 93.09 | 92.80 | 93.39 | 93.87 | 93.71 |
| 7           | 93.25 | 93.02 | 93.03 | 93.33 | 93.89 | 93.79 | 93.67 | 93.07 | 92.78 | 93.36 | 93.84 | 93.70 |
| 8           | 93.25 | 93.02 | 93.02 | 93.37 | 93.91 | 93.78 | 93.64 | 93.05 | 92.76 | 93.36 | 93.84 | 93.71 |
| 9           | 93.24 | 93.00 | 93.00 | 93.37 | 93.94 | 93.76 | 93.62 | 93.04 | 92.79 | 93.34 | 93.83 | 93.76 |
| 10          | 93.25 | 93.00 | 93.00 | 93.61 | 93.94 | 93.77 | 93.60 | 93.01 | 92.91 | 93.33 | 93.81 | 93.81 |
| 11          | 93.24 | 93.00 | 93.01 | 93.89 | 93.97 | 93.76 | 93.58 | 92.97 | 92.90 | 93.30 | 93.68 | 93.80 |
| 12          | 93.22 | 93.01 | 93.01 | 93.94 | 93.99 | 93.77 | 93.56 | 92.95 | 92.89 | 93.30 | 93.60 | 93.81 |
| 13          | 93.22 | 93.01 | 93.01 | 93.95 | 93.97 | 93.75 | 93.58 | 92.92 | 92.90 | 93.31 | 93.62 | 93.81 |
| 14          | 93.22 | 92.99 | 93.15 | 93.94 | 93.96 | 93.78 | 93.57 | 92.91 | 92.96 | 93.29 | 93.65 | 93.78 |
| 15          | 93.20 | 92.98 | 93.13 | 93.94 | 93.94 | 93.84 | 93.55 | 92.89 | 93.01 | 93.28 | 93.68 | 93.78 |
| 16          | 93.21 | 92.98 | 93.12 | 93.95 | 93.94 | 93.96 | 93.54 | 92.86 | 93.02 | 93.25 | 93.63 | 93.76 |
| 17          | 93.19 | 92.96 | 93.13 | 93.96 | 93.92 | 93.96 | 93.50 | 92.84 | 93.06 | 93.24 | 93.58 | 93.74 |
| 18          | 93.20 | 92.97 | 93.11 | 93.97 | 93.92 | 93.96 | 93.48 | 92.82 | 93.06 | 93.25 | 93.53 | 93.74 |
| 19          | 93.18 | 92.95 | 93.10 | 93.96 | 93.92 | 93.94 | 93.46 | 92.80 | 93.08 | 93.23 | 93.46 | 93.79 |
| 20          | 93.16 | 92.95 | 93.09 | 93.97 | 93.93 | 93.94 | 93.44 | 92.79 | 93.17 | 93.20 | 93.46 | 93.78 |
| 21          | 93.16 | 92.95 | 93.08 | 93.96 | 93.92 | 93.94 | 93.42 | 92.82 | 93.20 | 93.17 | 93.55 | 93.76 |
| 22          | 93.15 | 92.95 | 93.06 | 93.94 | 93.90 | 93.92 | 93.41 | 92.82 | 93.23 | 93.18 | 93.63 | 93.75 |
| 23          | 93.15 | 92.95 | 93.07 | 93.94 | 93.91 | 93.88 | 93.38 | 92.80 | 93.27 | 93.21 | 93.66 | 93.73 |
| 24          | 93.13 | 92.93 | 93.05 | 93.94 | 93.90 | 93.86 | 93.35 | 92.78 | 93.32 | 93.23 | 93.66 | 93.73 |
| 25          | 93.13 | 92.92 | 93.10 | 93.95 | 93.88 | 93.85 | 93.32 | 92.76 | 93.35 | 93.22 | 93.66 | 93.70 |
| 26          | 93.11 | 92.91 | 93.09 | 93.95 | 93.86 | 93.84 | 93.30 | 92.74 | 93.34 | 93.32 | 93.66 | 93.69 |
| 27          | 93.10 | 92.90 | 93.06 | 93.94 | 93.84 | 93.83 | 93.28 | 92.72 | 93.32 | 93.50 | 93.68 | 93.69 |
| 28          | 93.11 | 92.89 | 93.07 | 93.92 | 93.87 | 93.82 | 93.26 | 92.69 | 93.31 | 93.54 | 93.66 | 93.66 |
| 29          | 93.13 | 92.89 | 93.07 | 93.90 | ---   | 93.81 | 93.24 | 92.66 | 93.30 | 93.55 | 93.65 | 93.65 |
| 30          | 93.12 | 92.88 | 93.07 | 93.91 | ---   | 93.80 | 93.22 | 92.64 | 93.27 | 93.58 | 93.68 | 93.63 |
| 31          | 93.12 | ---   | 93.05 | 93.91 | ---   | 93.78 | ---   | 92.62 | ---   | 93.59 | 93.71 | ---   |
| MEAN        | 93.17 | 92.99 | 93.04 | 93.75 | 93.91 | 93.84 | 93.51 | 92.90 | 93.02 | 93.32 | 93.66 | 93.73 |
| MAX         | 93.28 | 93.13 | 93.15 | 93.97 | 93.99 | 93.96 | 93.77 | 93.20 | 93.35 | 93.59 | 93.87 | 93.81 |
| MIN         | 92.98 | 92.88 | 92.87 | 93.22 | 93.84 | 93.75 | 93.22 | 92.62 | 92.60 | 93.17 | 93.46 | 93.63 |
| WTR YR 1986 | MEAN  | 93.40 | MAX   | 93.99 | MIN   | 92.60 |       |       |       |       |       |       |

02263900 LAKE BUTLER AT WINDERMERE, FL

DRAINAGE AREA.--14.5 mi<sup>2</sup>.

GAGE.--Nonrecording gage. Datum of gage is 90.00 ft above National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD. Prior to Nov. 27, 1941, nonrecording gage at site 500 ft south at datum 10.17 ft higher. Nov. 27, 1941 to Mar. 9, 1942, nonrecording gage at site of old hotel pier about 0.4 mi northwest at datum 6.40 ft higher. Mar. 9, 1942 to Dec. 7, 1978, nonrecording gage at present site at datum 6.40 ft higher.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 101.78 ft, Sept. 13, 1960; minimum observed, 94.62 ft, July 21, 29, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 99.64 ft, Mar. 19; minimum observed, 98.38 ft, May 30.

| DAY | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| 2   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| 3   | 99.10 | ---   | 98.70 | ---   | ---   | ---   | ---   | ---   | 98.40 | 99.00 | ---   | 99.28 |
| 4   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| 5   | ---   | ---   | ---   | ---   | 99.50 | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| 6   | ---   | 98.89 | ---   | ---   | ---   | 99.48 | ---   | ---   | ---   | ---   | ---   | ---   |
| 7   | ---   | ---   | ---   | ---   | ---   | ---   | 99.36 | ---   | ---   | ---   | 99.08 | ---   |
| 8   | ---   | ---   | ---   | 99.00 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| 9   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| 10  | 99.10 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 98.96 | ---   | 99.30 |
| 11  | ---   | ---   | ---   | ---   | ---   | ---   | 99.30 | ---   | 98.58 | ---   | ---   | ---   |
| 12  | ---   | ---   | ---   | ---   | 99.63 | ---   | ---   | ---   | 98.55 | ---   | 99.05 | ---   |
| 13  | ---   | 98.84 | 98.80 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| 14  | ---   | ---   | ---   | ---   | ---   | 99.56 | ---   | ---   | ---   | ---   | ---   | ---   |
| 15  | ---   | ---   | ---   | 99.50 | ---   | ---   | ---   | ---   | ---   | ---   | 99.14 | ---   |
| 16  | ---   | ---   | 98.85 | ---   | ---   | ---   | ---   | ---   | ---   | 98.90 | ---   | ---   |
| 17  | 99.00 | ---   | ---   | ---   | 99.60 | ---   | 99.25 | ---   | ---   | ---   | ---   | 99.32 |
| 18  | ---   | ---   | 98.80 | ---   | ---   | ---   | ---   | ---   | 98.70 | ---   | ---   | ---   |
| 19  | ---   | ---   | ---   | ---   | ---   | 99.64 | ---   | ---   | ---   | ---   | ---   | ---   |
| 20  | ---   | 98.80 | ---   | ---   | 99.60 | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| 21  | ---   | ---   | ---   | 99.54 | ---   | ---   | ---   | ---   | ---   | ---   | 99.16 | ---   |
| 22  | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| 23  | ---   | ---   | ---   | ---   | ---   | ---   | 99.10 | ---   | ---   | 99.00 | ---   | ---   |
| 24  | 98.96 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 99.00 | ---   | ---   | 99.46 |
| 25  | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 98.58 | ---   | ---   | ---   | ---   |
| 26  | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | 99.16 | ---   |
| 27  | ---   | 98.75 | ---   | ---   | 99.55 | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| 28  | 98.94 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| 29  | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |
| 30  | 99.00 | ---   | 98.75 | ---   | ---   | 99.50 | 98.98 | 98.38 | ---   | 99.01 | ---   | ---   |
| 31  | ---   | ---   | ---   | 99.50 | ---   | ---   | ---   | ---   | ---   | ---   | ---   | ---   |

## 02264000 CYPRESS CREEK AT VINELAND, FL

DRAINAGE AREA.--30.3 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1945 to current year.

REMARKS.--Estimated daily discharges: Sept. 23-25. Records fair. Some diversions by pumping above station for irrigation.

AVERAGE DISCHARGE.--41 years, 5.57 ft<sup>3</sup>/s, 2.50 in/yr, 4,040 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 354 ft<sup>3</sup>/s, Sept. 11, 1960, gage height, 4.66 ft; no flow for many days in most years; creek dry at gage for many days in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17 ft<sup>3</sup>/s, Jan. 10, 11, gage height, 2.63 ft, no peak greater than base discharge of 30 ft<sup>3</sup>/s; no flow for many days; creek dry at gage for many days.

| DAY         | OCT   | NOV    | DEC   | JAN   | FEB   | MAR   | APR   | MAY | JUN | JUL   | AUG    | SEP   |     |       |     |
|-------------|-------|--------|-------|-------|-------|-------|-------|-----|-----|-------|--------|-------|-----|-------|-----|
| 1           | 1.6   | .46    | .06   | 1.9   | 4.1   | 5.4   | 2.7   | .00 | .00 | .04   | .91    | 3.8   |     |       |     |
| 2           | 1.4   | .44    | .06   | 2.0   | 4.1   | 5.0   | 2.5   | .00 | .00 | .03   | .87    | 3.1   |     |       |     |
| 3           | 2.7   | .42    | .09   | 1.9   | 4.0   | 4.7   | 2.3   | .00 | .00 | .03   | 1.6    | 2.7   |     |       |     |
| 4           | 8.2   | .38    | .12   | 1.8   | 3.9   | 4.3   | 2.2   | .00 | .00 | .05   | 1.8    | 2.5   |     |       |     |
| 5           | 8.0   | .33    | .41   | 2.0   | 3.7   | 4.3   | 2.1   | .00 | .00 | .29   | 3.5    | 2.3   |     |       |     |
| 6           | 8.4   | .31    | .92   | 2.1   | 3.6   | 4.0   | 1.9   | .00 | .00 | .29   | 5.0    | 2.4   |     |       |     |
| 7           | 5.9   | .28    | .78   | 2.0   | 3.6   | 3.7   | 1.6   | .00 | .00 | .25   | 3.6    | 2.2   |     |       |     |
| 8           | 4.4   | .25    | .73   | 2.2   | 4.1   | 3.4   | 1.4   | .00 | .00 | .21   | 2.8    | 2.3   |     |       |     |
| 9           | 3.5   | .22    | .71   | 2.1   | 4.7   | 3.2   | 1.3   | .00 | .00 | .17   | 2.3    | 3.9   |     |       |     |
| 10          | 3.1   | .23    | .65   | 9.2   | 4.7   | 3.1   | 1.1   | .00 | .00 | .13   | 2.1    | 6.0   |     |       |     |
| 11          | 2.7   | .23    | .61   | 16    | 5.1   | 3.1   | .96   | .00 | .00 | .09   | 2.1    | 5.2   |     |       |     |
| 12          | 2.3   | .22    | .56   | 12    | 5.7   | 2.9   | .79   | .00 | .00 | .08   | 2.1    | 4.3   |     |       |     |
| 13          | 2.0   | .22    | .52   | 9.3   | 5.7   | 2.7   | 1.5   | .00 | .00 | .22   | 3.3    | 3.7   |     |       |     |
| 14          | 1.7   | .20    | 1.4   | 7.7   | 5.6   | 3.3   | 1.4   | .00 | .00 | .22   | 4.3    | 3.2   |     |       |     |
| 15          | 1.5   | .18    | 1.3   | 6.6   | 5.4   | 4.6   | 1.0   | .00 | .00 | .18   | 4.6    | 3.0   |     |       |     |
| 16          | 1.4   | .16    | 1.2   | 5.9   | 5.2   | 8.4   | .83   | .00 | .00 | .14   | 3.8    | 2.6   |     |       |     |
| 17          | 1.3   | .15    | 1.1   | 5.5   | 5.0   | 8.2   | .62   | .00 | .00 | .10   | 3.1    | 2.3   |     |       |     |
| 18          | 1.1   | .13    | 1.1   | 5.3   | 5.2   | 7.3   | .48   | .00 | .00 | .09   | 2.7    | 2.3   |     |       |     |
| 19          | 1.1   | .12    | .95   | 5.2   | 5.2   | 6.6   | .38   | .00 | .00 | .27   | 2.3    | 2.4   |     |       |     |
| 20          | .99   | .11    | .87   | 5.0   | 5.0   | 5.9   | .32   | .00 | .00 | .29   | 5.2    | 2.2   |     |       |     |
| 21          | .94   | .12    | .79   | 4.7   | 4.8   | 5.8   | .26   | .00 | .01 | .24   | 6.6    | 2.2   |     |       |     |
| 22          | .86   | .11    | .73   | 4.6   | 4.7   | 5.5   | .22   | .00 | .07 | .22   | 7.0    | 2.1   |     |       |     |
| 23          | .79   | .12    | .67   | 4.4   | 4.6   | 5.2   | .17   | .00 | .11 | .31   | 5.0    | 1.9   |     |       |     |
| 24          | .73   | .12    | .64   | 4.3   | 4.5   | 4.8   | .12   | .00 | .14 | .33   | 3.9    | 1.8   |     |       |     |
| 25          | .66   | .11    | .80   | 4.2   | 4.3   | 4.6   | .08   | .00 | .14 | .31   | 3.3    | 1.7   |     |       |     |
| 26          | .61   | .10    | .85   | 4.5   | 4.1   | 4.2   | .07   | .00 | .15 | .36   | 3.0    | 1.5   |     |       |     |
| 27          | .59   | .08    | .85   | 4.7   | 4.1   | 4.0   | .05   | .00 | .10 | .84   | 3.5    | 1.4   |     |       |     |
| 28          | .57   | .08    | .81   | 4.7   | 5.6   | 3.7   | .04   | .00 | .08 | 1.4   | 3.2    | 1.2   |     |       |     |
| 29          | .56   | .07    | .77   | 4.7   | ---   | 3.4   | .02   | .00 | .06 | 1.5   | 3.8    | 1.0   |     |       |     |
| 30          | .51   | .06    | .74   | 4.4   | ---   | 3.1   | .01   | .00 | .05 | 1.4   | 3.6    | .87   |     |       |     |
| 31          | .48   | ---    | .69   | 4.2   | ---   | 3.0   | ---   | .00 | --- | 1.1   | 4.4    | ---   |     |       |     |
| TOTAL       | 70.59 | 6.01   | 22.48 | 155.1 | 130.3 | 141.4 | 28.42 | .00 | .91 | 11.18 | 105.28 | 78.07 |     |       |     |
| MEAN        | 2.28  | .20    | .73   | 5.00  | 4.65  | 4.56  | .95   | .00 | .03 | .36   | 3.40   | 2.60  |     |       |     |
| MAX         | 8.4   | .46    | 1.4   | 16    | 5.7   | 8.4   | 2.7   | .00 | .15 | 1.5   | 7.0    | 6.0   |     |       |     |
| MIN         | .48   | .06    | .06   | 1.8   | 3.6   | 2.7   | .01   | .00 | .00 | .03   | .87    | .87   |     |       |     |
| CFSM        | .08   | .01    | .02   | .17   | .15   | .15   | .03   | .00 | .00 | .01   | .11    | .09   |     |       |     |
| IN.         | .09   | .01    | .03   | .19   | .16   | .17   | .03   | .00 | .00 | .01   | .13    | .10   |     |       |     |
| AC-FT       | 140   | 12     | 45    | 308   | 258   | 280   | 56    | .00 | 1.8 | 22    | 209    | 155   |     |       |     |
| CAL YR 1985 | TOTAL | 227.70 |       | MEAN  | .62   | MAX   | 8.4   | MIN | .00 | CFSM  | .02    | IN.   | .28 | AC-FT | 452 |
| WTR YR 1986 | TOTAL | 749.74 |       | MEAN  | 2.05  | MAX</ |       |     |     |       |        |       |     |       |     |

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02264000 CYPRESS CREEK AT VINELAND, FL--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963, 1966, 1969-74, 1976-80, 1982 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | TIME                                                                      | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095)        | PH<br>(STAND-<br>ARD<br>UNITS)<br>(00400)                                  | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010)                     | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080)                   | TUR-<br>BID-<br>ITY<br>(NTU)<br>(00076)                                       | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300)                        | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3)<br>(00900)                             | HARD-<br>NESS<br>NONCARE<br>WH WAT<br>TOT FLD<br>MG/L AS<br>CACO3<br>(00902)  | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA)<br>(00915)                         | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG)<br>(00925)    | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930)                |
|--------------|---------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------------|
| NOV<br>04... | 0938                                                                      | --                                                                  | --                                                                         | --                                                                  | 800                                                                       | 0.50                                                                          | --                                                                    | 15                                                                            | 0                                                                             | 2.0                                                                             | 2.4                                                                | 7.4                                                                    |
| MAR<br>03... | 1148                                                                      | 100                                                                 | 3.70                                                                       | 12.0                                                                | 320                                                                       | 0.40                                                                          | 5.2                                                                   | 17                                                                            | 0                                                                             | 1.8                                                                             | 3.0                                                                | 8.3                                                                    |
| AUG<br>11... | 1030                                                                      | 141                                                                 | 3.80                                                                       | --                                                                  | 800                                                                       | 0.20                                                                          | --                                                                    | 14                                                                            | 0                                                                             | 1.5                                                                             | 2.5                                                                | 7.4                                                                    |
| DATE         | PERCENT<br>SODIUM<br>(00932)                                              | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO<br>(00931)                  | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935)             | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945)            | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940)            | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615)               | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630)       | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610)               | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00605)               | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625)   | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)             | PHOS-<br>PHORUS,<br>ORTHO,<br>TOTAL<br>(MG/L<br>AS P)<br>(70507)       |
| NOV<br>04... | 52                                                                        | 0.8                                                                 | 0.20                                                                       | 54                                                                  | 19                                                                        | 0.020                                                                         | 0.020                                                                 | 0.070                                                                         | 1.7                                                                           | 1.8                                                                             | 0.060                                                              | 0.020                                                                  |
| MAR<br>03... | 49                                                                        | 0.9                                                                 | 1.8                                                                        | 17                                                                  | 17                                                                        | 0.010                                                                         | 0.020                                                                 | 0.010                                                                         | 1.2                                                                           | 1.2                                                                             | 0.010                                                              | 0.010                                                                  |
| AUG<br>11... | 51                                                                        | 0.9                                                                 | 1.0                                                                        | 44                                                                  | 17                                                                        | 0.010                                                                         | 0.010                                                                 | 0.080                                                                         | 1.9                                                                           | 2.0                                                                             | 0.040                                                              | 0.030                                                                  |
| DATE         | ALUM-<br>INUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AL)<br>(01105) | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS)<br>(01002)                      | BERYL-<br>LIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BE)<br>(01012) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD)<br>(01027)  | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR)<br>(01034) | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU)<br>(01042)            | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE)<br>(01045)      | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB)<br>(01051)              | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN)<br>(01055)    | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG)<br>(71900)              | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI)<br>(01067) | SELE-<br>NIUM,<br>TOTAL<br>(UG/L<br>AS SE)<br>(01147)                  |
| AUG<br>11... | 390                                                                       | <1                                                                  | <10                                                                        | <1                                                                  | <10                                                                       | 2                                                                             | 810                                                                   | <5                                                                            | 20                                                                            | <0.10                                                                           | 3                                                                  | <1                                                                     |
| DATE         | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN)<br>(01092)          | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680)            | PCB,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L)<br>(39516)                     | PCB,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39519) | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L)<br>(39250)  | PCN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39251)           | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39330) | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39333)        | CHLOR-<br>DANE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39350) | CHLOR-<br>DANE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39351)  | DDD,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39360) | DDD,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39363)    |
| MAR<br>03... | --                                                                        | 50                                                                  | --                                                                         | --                                                                  | --                                                                        | --                                                                            | --                                                                    | --                                                                            | --                                                                            | --                                                                              | --                                                                 | --                                                                     |
| AUG<br>11... | 70                                                                        | 98                                                                  | <0.1                                                                       | <1                                                                  | <0.10                                                                     | <1.0                                                                          | <0.010                                                                | <0.1                                                                          | <0.1                                                                          | <1.0                                                                            | <0.010                                                             | <0.1                                                                   |
| DATE         | DDE,<br>TOTAL<br>(UG/L)<br>(39365)                                        | DDE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39368) | DDT,<br>TOTAL<br>(UG/L)<br>(39370)                                         | DDT,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39373) | DI-<br>AZINON,<br>TOTAL<br>(UG/L)<br>(39570)                              | DI-<br>AZINON,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39571) | DI-<br>ELDRIN,<br>TOTAL<br>(UG/L)<br>(39380)                          | DI-<br>ELDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39383) | ENDO-<br>SULFAN,<br>TOTAL<br>(UG/L)<br>(39388)                                | ENDO-<br>SULFAN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39389) | ENDRIN,<br>TOTAL<br>(UG/L)<br>(39390)                              | ENDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39393) |
| AUG<br>11... | <0.010                                                                    | 0.5                                                                 | <0.010                                                                     | <0.1                                                                | <0.01                                                                     | <0.1                                                                          | <0.010                                                                | 0.1                                                                           | <0.010                                                                        | <0.1                                                                            | <0.010                                                             | <0.1                                                                   |



## SOUTH FLORIDA

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## KISSIMMEE RIVER BASIN

02264000 CYPRESS CREEK AT VINELAND, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | ETHION,<br>TOTAL<br>(UG/L)<br>(39398)                 | ETHION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39399)      | HEPTA-<br>CHLOR,<br>TOTAL<br>(UG/L)<br>(39410) | HEPTA-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39413) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOTAL<br>(UG/L)<br>(39420)                      | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39423) | MIREX,<br>TOTAL<br>(UG/L)<br>(39755)                                         | LINDANE<br>TOTAL<br>(UG/L)<br>(39340)         | LINDANE<br>TOTAL<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39343)           | MALA-<br>THION,<br>TOTAL<br>(UG/L)<br>(39530) | MALA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39531) |
|--------------|-------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------|
| AUG<br>11... | <0.01                                                 | 0.1                                                                         | <0.010                                         | <0.1                                                                            | <0.010                                                                        | <0.1                                                                           | <0.01                                                                        | <0.010                                        | <0.1                                                                  | <0.01                                         | 0.1                                                                            |
| DATE         | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L)<br>(39480) | METH-<br>OXY-<br>CHLOR,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39481) | GUTHION<br>TOTAL<br>(UG/L)<br>(39580)          | METHYL<br>PARA-<br>THION,<br>TOTAL<br>(UG/L)<br>(39600)                         | METHYL<br>PARA-<br>THION,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39601) | METHYL<br>TRI-<br>THION,<br>TOTAL<br>(UG/L)<br>(39790)                         | METHYL<br>TRI-<br>THION,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39791) | PARA-<br>THION,<br>TOTAL<br>(UG/L)<br>(39540) | PARA-<br>THION,<br>TOTAL<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39541)   | DI-<br>SYSTON<br>TOTAL<br>(UG/L)<br>(39011)   | PHORATE<br>OTAL<br>(UG/L)<br>(39023)                                           |
| AUG<br>11... | <0.01                                                 | <0.1                                                                        | <0.10                                          | <0.01                                                                           | <0.1                                                                          | <0.01                                                                          | <0.1                                                                         | <0.01                                         | <0.1                                                                  | <0.01                                         | <0.01                                                                          |
| DATE         | PER-<br>THANE<br>TOTAL<br>(UG/L)<br>(39034)           | PER-<br>THANE<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(81886)         | TOX-<br>APHENE,<br>TOTAL<br>(UG/L)<br>(39400)  | TOXA-<br>PHENE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39403)  | TOTAL<br>TRI-<br>THION<br>(UG/L)<br>(39786)                                   | TRI-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39787)  | 2,4-D,<br>TOTAL<br>(UG/L)<br>(39730)                                         | 2,4,5-T<br>TOTAL<br>(UG/L)<br>(39740)         | MIREX,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39758) | SILVEX,<br>TOTAL<br>(UG/L)<br>(39760)         | 2, 4-DP<br>TOTAL<br>(UG/L)<br>(82183)                                          |
| AUG<br>11... | <0.1                                                  | <1.00                                                                       | <1                                             | <10                                                                             | <0.01                                                                         | <0.1                                                                           | <0.01                                                                        | <0.01                                         | 0.2                                                                   | <0.01                                         | <0.01                                                                          |

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02264100 BONNET CREEK NEAR VINELAND, FL

LOCATION.--Lat 28°19'58", long 81°31'20", in NW¼ sec.9, T.25 S., R.28 E., Osceola County, Hydrologic Unit 03090101, on downstream side of bridge on U.S. Highway 192, about 1 mi upstream from Reedy Creek Swamp, and 4.5 mi south of Vineland.

DRAINAGE AREA.--56.1 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1966 to current year. Results of miscellaneous discharge measurements for some periods prior to May 1966 are unpublished and available in files of the Orlando Subdistrict Office.

GAGE.--Water-stage recorder and steel sheet-pile weir with sluice gate. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to Oct. 1, 1968, at datum 37.96 ft higher.

REMARKS.--Records poor. Since October 1968, flow regulated by automatic gates upstream and since December 1970, by control structure S-11-temporary 0.5 mi downstream. Natural flow of stream affected by canals and control structures above station which divert an undetermined amount of water into the Reedy Creek basin. From Oct. 13, 1983 to Feb. 1, 1985 structure S-11-temporary did not regulate the stream because of a washout of the bank around the structure.

AVERAGE DISCHARGE.--20 years, 22.7 ft<sup>3</sup>/s, 16,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 476 ft<sup>3</sup>/s, June 28, 1974; maximum gage height, 78.58 ft, Nov. 1, 1969; no flow for many days in most years; minimum gage height, 68.18 ft, Oct. 18,23,25, 1985, estimated, result of washout around structure.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 11, 1960, reached a stage of 42.5 ft, datum then in use, from floodmarks, discharge, 1,200 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 572 ft<sup>3</sup>/s, Jan. 10; maximum gage height, 74.93 ft, Aug. 5; no flow for many days; minimum gage height, 69.74 ft, June 1,2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT    | NOV     | DEC  | JAN  | FEB  | MAR   | APR   | MAY   | JUN    | JUL    | AUG     | SEP  |
|-------------|--------|---------|------|------|------|-------|-------|-------|--------|--------|---------|------|
| 1           | 38     | .00     | 20   | 75   | 15   | 15    | 9.0   | 2.3   | .00    | .00    | .00     | 48   |
| 2           | 38     | .00     | 28   | 67   | 15   | 15    | 9.0   | 2.3   | .00    | .00    | 16      | 42   |
| 3           | 83     | .00     | 30   | 44   | 15   | 15    | 9.5   | 2.2   | .00    | .00    | 63      | 36   |
| 4           | 241    | .00     | 26   | 26   | 15   | 14    | 9.0   | 2.2   | .00    | 9.5    | 98      | 41   |
| 5           | 184    | .00     | 60   | 39   | 14   | 14    | 3.2   | 2.2   | .00    | 33     | 196     | 38   |
| 6           | 193    | .00     | 45   | 43   | 14   | 14    | 3.2   | 2.2   | .00    | 19     | 176     | 40   |
| 7           | 119    | .00     | 44   | 35   | 14   | 14    | 3.1   | 2.2   | .00    | 15     | 76      | 42   |
| 8           | 42     | .00     | 39   | 36   | 15   | 14    | 3.1   | 2.2   | .00    | 12     | 40      | 55   |
| 9           | 24     | 11      | 37   | 33   | 16   | 13    | 3.0   | 2.2   | .00    | 3.8    | 39      | 99   |
| 10          | .00    | 20      | 35   | 285  | 16   | 13    | 3.0   | 2.2   | .00    | .02    | 44      | 91   |
| 11          | .00    | 20      | 34   | 223  | 16   | 13    | 2.9   | 2.2   | .00    | 5.8    | 50      | 65   |
| 12          | .00    | 20      | 34   | 119  | 17   | 13    | 2.9   | 2.2   | .00    | 19     | 51      | 51   |
| 13          | .00    | 20      | 34   | 107  | 16   | 13    | 2.8   | 2.2   | .00    | 21     | 88      | 51   |
| 14          | .00    | 22      | 49   | 93   | 16   | 14    | 2.8   | 2.2   | .00    | 19     | 104     | 49   |
| 15          | .00    | 22      | 36   | 69   | 15   | 23    | 2.8   | 2.2   | .00    | 18     | 107     | 44   |
| 16          | .00    | 21      | 15   | 28   | 16   | 65    | 2.8   | 2.2   | .00    | 17     | 75      | 40   |
| 17          | .00    | 21      | 14   | 18   | 16   | 66    | 2.8   | .00   | .00    | 18     | 65      | 39   |
| 18          | .00    | 19      | 13   | 17   | 15   | 57    | 2.7   | .00   | .00    | 23     | 56      | 37   |
| 19          | .00    | 22      | 13   | 17   | 15   | 44    | 2.7   | .00   | 12     | 38     | 51      | 40   |
| 20          | .00    | 24      | 13   | 16   | 15   | 23    | 2.6   | .00   | 30     | 21     | 96      | 37   |
| 21          | .00    | 21      | 13   | 16   | 15   | 17    | 2.6   | .00   | 14     | 21     | 85      | 37   |
| 22          | .00    | 18      | 13   | 45   | 15   | 17    | 2.5   | .00   | 18     | 20     | 94      | 36   |
| 23          | .00    | 18      | 13   | 33   | 14   | 18    | 2.4   | .00   | 17     | 23     | 80      | 36   |
| 24          | .00    | 18      | 13   | 16   | 14   | 25    | 2.4   | .00   | 16     | 24     | 52      | 39   |
| 25          | .00    | 19      | 14   | 16   | 14   | 33    | 2.4   | .00   | 22     | 23     | 41      | 40   |
| 26          | .00    | 20      | 13   | 16   | 14   | 32    | 2.4   | .00   | 15     | 23     | 37      | 36   |
| 27          | .00    | 20      | 14   | 17   | 14   | 29    | 2.4   | .00   | 9.0    | 45     | 39      | 36   |
| 28          | .00    | 20      | 17   | 16   | 14   | 18    | 2.4   | .00   | .60    | 44     | 44      | 35   |
| 29          | .00    | 19      | 18   | 15   | ---  | 9.5   | 2.3   | .00   | .00    | 30     | 54      | 36   |
| 30          | .00    | 20      | 17   | 15   | ---  | 8.5   | 2.3   | .00   | .00    | 14     | 49      | 37   |
| 31          | .00    | ---     | 17   | 15   | ---  | 7.5   | ---   | .00   | ---    | .00    | 60      | ---  |
| TOTAL       | 962.00 | 435.00  | 781  | 1610 | 420  | 686.5 | 107.0 | 35.40 | 153.60 | 559.12 | 2126.00 | 1353 |
| MEAN        | 31.0   | 14.5    | 25.2 | 51.9 | 15.0 | 22.1  | 3.57  | 1.14  | 5.12   | 18.0   | 68.6    | 45.1 |
| MAX         | 241    | 24      | 60   | 285  | 17   | 66    | 9.5   | 2.3   | 30     | 45     | 196     | 99   |
| MIN         | .00    | .00     | 13   | 15   | 14   | 7.5   | 2.3   | .00   | .00    | .00    | .00     | 35   |
| AC-FT       | 1910   | 863     | 1550 | 3190 | 833  | 1360  | 212   | 70    | 305    | 1110   | 4220    | 2680 |
| CAL YR 1985 | TOTAL  | 8034.60 | MEAN | 22.0 | MAX  | 241   | MIN   | .00   | AC-FT  | 15940  |         |      |
| WTR YR 1986 | TOTAL  | 9228.62 | MEAN | 25.3 | MAX  | 285   | MIN   | .00   | AC-FT  | 18300  |         |      |

## KISSIMMEE RIVER BASIN

02264100 BONNET CREEK NEAR VINELAND, FL--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1961, 1963, 1966, 1968 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | TUR-<br>BID-<br>ITY<br>(NTU)<br>(00076) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3)<br>(00900) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT FLD<br>MG/L AS<br>CACO3<br>(00902) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA)<br>(00915) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG)<br>(00925) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930) |
|--------------|------|--------------------------------------------------------------|-------------------------------------------|-------------------------------------------------|---------------------------------------------------------|-----------------------------------------|------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|
| NOV<br>04... | 0915 | --                                                           | --                                        | --                                              | 400                                                     | 1.3                                     | --                                             | 46                                                | 29                                                                           | 12                                                      | 4.0                                                             | 6.1                                                     |
| MAR<br>04... | 1020 | 92                                                           | 6.00                                      | 16.5                                            | 140                                                     | 2.1                                     | 7.2                                            | 38                                                | 25                                                                           | 9.3                                                     | 3.5                                                             | 7.0                                                     |
| APR<br>28... | 1050 | 127                                                          | 7.20                                      | 23.5                                            | --                                                      | --                                      | 6.2                                            | --                                                | --                                                                           | --                                                      | --                                                              | --                                                      |
| MAY<br>07... | 0755 | 131                                                          | 6.20                                      | 24.5                                            | 140                                                     | 1.0                                     | 5.5                                            | 50                                                | 19                                                                           | 13                                                      | 4.2                                                             | 6.4                                                     |
| JUN<br>03... | 1350 | 150                                                          | 7.50                                      | 33.0                                            | --                                                      | --                                      | --                                             | --                                                | --                                                                           | --                                                      | --                                                              | --                                                      |
| JUL<br>14... | 1130 | 129                                                          | 6.60                                      | 29.5                                            | --                                                      | --                                      | 7.9                                            | --                                                | --                                                                           | --                                                      | --                                                              | --                                                      |
| 29...        | 1145 | --                                                           | --                                        | 28.0                                            | --                                                      | --                                      | 3.6                                            | --                                                | --                                                                           | --                                                      | --                                                              | --                                                      |
| AUG<br>11... | 0910 | 112                                                          | 6.10                                      | 28.0                                            | 240                                                     | 0.90                                    | 2.9                                            | 37                                                | 20                                                                           | 9.6                                                     | 3.1                                                             | 5.3                                                     |
| SEP<br>23... | 0935 | --                                                           | --                                        | --                                              | --                                                      | --                                      | 0.7                                            | --                                                | --                                                                           | --                                                      | --                                                              | --                                                      |

| DATE         | PERCENT<br>SODIUM<br>(00932) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO<br>(00931) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | NITRO-<br>GEN,<br>NITRATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00618) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) |
|--------------|------------------------------|----------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|
| NOV<br>04... | 21                           | 0.4                                                | 2.0                                                            | 33                                                       | 14                                                             | --                                                                       | 0.010                                                           | --                                                                       | 0.200                                                           | --                                                                       | 0.010                                                           |
| MAR<br>04... | 27                           | 0.5                                                | 2.3                                                            | 24                                                       | 12                                                             | --                                                                       | 0.010                                                           | --                                                                       | 0.150                                                           | --                                                                       | 0.010                                                           |
| APR<br>28... | --                           | --                                                 | --                                                             | --                                                       | --                                                             | 0.010                                                                    | 0.010                                                           | 0.010                                                                    | 0.020                                                           | 0.020                                                                    | 0.020                                                           |
| MAY<br>07... | 21                           | 0.4                                                | 1.8                                                            | 21                                                       | 15                                                             | --                                                                       | 0.010                                                           | --                                                                       | 0.010                                                           | --                                                                       | 0.020                                                           |
| JUN<br>03... | --                           | --                                                 | --                                                             | --                                                       | --                                                             | --                                                                       | <0.010                                                          | --                                                                       | 0.010                                                           | --                                                                       | 0.020                                                           |
| JUL<br>29... | --                           | --                                                 | --                                                             | --                                                       | --                                                             | --                                                                       | 0.010                                                           | --                                                                       | 0.010                                                           | --                                                                       | 0.030                                                           |
| AUG<br>11... | 23                           | 0.4                                                | 1.8                                                            | 22                                                       | 11                                                             | --                                                                       | 0.010                                                           | --                                                                       | 0.080                                                           | --                                                                       | 0.040                                                           |
| SEP<br>23... | --                           | --                                                 | --                                                             | --                                                       | --                                                             | --                                                                       | 0.010                                                           | --                                                                       | 0.070                                                           | --                                                                       | 0.040                                                           |

| DATE         | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00605) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS.<br>(MG/L<br>AS N)<br>(00623) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00666) | PHOS-<br>PHORUS,<br>ORTHO,<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) | PHOS-<br>PHORUS,<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | ALUM-<br>INUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AL)<br>(01105) | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS)<br>(01002) | BERYL-<br>LIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BE)<br>(01012) |
|--------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------|
| NOV<br>04... | --                                                                       | 1.2                                                             | 1.2                                                                           | --                                                                           | 0.070                                                  | --                                                              | 0.040                                                            | --                                                                        | --                                                                        | --                                             | --                                                                         |
| MAR<br>04... | --                                                                       | 0.99                                                            | 1.0                                                                           | --                                                                           | 0.070                                                  | --                                                              | 0.060                                                            | --                                                                        | --                                                                        | --                                             | --                                                                         |
| APR<br>28... | 0.030                                                                    | 0.80                                                            | 0.82                                                                          | 0.67                                                                         | 0.080                                                  | 0.050                                                           | 0.020                                                            | 0.020                                                                     | --                                                                        | --                                             | --                                                                         |
| MAY<br>07... | --                                                                       | 0.73                                                            | 0.75                                                                          | --                                                                           | 0.070                                                  | --                                                              | 0.030                                                            | --                                                                        | 230                                                                       | <1                                             | <10                                                                        |
| JUN<br>03... | --                                                                       | 0.72                                                            | 0.74                                                                          | --                                                                           | 0.060                                                  | --                                                              | 0.020                                                            | --                                                                        | --                                                                        | --                                             | --                                                                         |
| JUL<br>29... | --                                                                       | 0.74                                                            | 0.77                                                                          | --                                                                           | 0.050                                                  | --                                                              | 0.040                                                            | --                                                                        | --                                                                        | --                                             | --                                                                         |
| AUG<br>11... | --                                                                       | 1.2                                                             | 1.2                                                                           | --                                                                           | 0.050                                                  | --                                                              | 0.030                                                            | --                                                                        | 410                                                                       | 1                                              | <10                                                                        |
| SEP<br>23... | --                                                                       | 1.3                                                             | 1.3                                                                           | --                                                                           | 0.060                                                  | --                                                              | 0.040                                                            | --                                                                        | --                                                                        | --                                             | --                                                                         |

SOUTH FLORIDA  
KISSIMMEE RIVER BASIN

02264100 BONNET CREEK NEAR VINELAND, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD)<br>(01027)  | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR)<br>(01034)             | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU)<br>(01042)                            | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE)<br>(01045)                | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB)<br>(01051)                        | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN)<br>(01055)               | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG)<br>(71900)                     | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI)<br>(01067)             | SELE-<br>NIUM,<br>TOTAL<br>(UG/L<br>AS SE)<br>(01147)                           | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN)<br>(01092)              | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680)                       |
|--------------|---------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| MAR<br>04... | --                                                                  | --                                                                                    | --                                                                                            | --                                                                              | --                                                                                      | --                                                                                       | --                                                                                     | --                                                                             | --                                                                              | --                                                                            | 40                                                                             |
| MAY<br>07... | <1                                                                  | <10                                                                                   | 5                                                                                             | 550                                                                             | 1                                                                                       | 10                                                                                       | 1.0                                                                                    | <1                                                                             | <1                                                                              | 80                                                                            | --                                                                             |
| AUG<br>11... | <1                                                                  | <10                                                                                   | 7                                                                                             | 430                                                                             | <5                                                                                      | 20                                                                                       | 1.4                                                                                    | 3                                                                              | <1                                                                              | 20                                                                            | 36                                                                             |
| DATE         | PCB,<br>TOTAL<br>(UG/L)<br>(39516)                                  | PCB,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39519)                   | NAPH-<br>THA-<br>LENES,<br>TOTAL<br>POLY-<br>CHLOR.<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39250) | PCN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39251)             | ALDRIN,<br>TOTAL<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39330)                              | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39333)                   | CHLOR-<br>DANE,<br>TOTAL<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39350)                     | CHLOR-<br>DANE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39351) | DDD,<br>TOTAL<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39360)                         | DDD,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39363)           | DDE,<br>TOTAL<br>(UG/L)<br>(39365)                                             |
| AUG<br>11... | <0.1                                                                | <1                                                                                    | <0.10                                                                                         | <1.0                                                                            | <0.010                                                                                  | <0.1                                                                                     | <0.1                                                                                   | <1.0                                                                           | <0.010                                                                          | 0.2                                                                           | <0.010                                                                         |
| DATE         | DDE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39368) | DDT,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39370)                    | DDT,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39373)                           | DI-<br>AZINON,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39570)    | DI-<br>AZINON,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39571)           | DI-<br>ELDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39380)             | DI-<br>ELDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39383)          | ENDO-<br>SULFAN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39388) | ENDO-<br>SULFAN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39389) | ENDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39390)         | ENDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39393)         |
| AUG<br>11... | <0.1                                                                | <0.010                                                                                | <0.1                                                                                          | 0.02                                                                            | <0.1                                                                                    | <0.010                                                                                   | <0.1                                                                                   | <0.010                                                                         | <0.1                                                                            | <0.010                                                                        | <0.1                                                                           |
| DATE         | ETHION,<br>TOTAL<br>(UG/L)<br>(39398)                               | ETHION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39399)                | HEPTA-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39410)                | HEPTA-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39413) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOTAL<br>(UG/L)<br>(39420)                                | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOT. IN<br>BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39423) | MIREX,<br>TOTAL<br>(UG/L)<br>(39755)                                                   | LINDANE<br>TOTAL<br>(UG/L)<br>(39340)                                          | LINDANE<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39343)          | MALA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39530) | MALA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39531) |
| AUG<br>11... | <0.01                                                               | <0.1                                                                                  | <0.010                                                                                        | <0.1                                                                            | <0.010                                                                                  | <0.1                                                                                     | <0.01                                                                                  | <0.010                                                                         | <0.1                                                                            | 0.07                                                                          | <0.1                                                                           |
| DATE         | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L)<br>(39480)               | METH-<br>OXY-<br>CHLOR,<br>TOT. IN<br>BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39481) | GUTHION<br>TOTAL<br>(UG/L)<br>(39580)                                                         | METHYL<br>PARA-<br>THION,<br>TOTAL<br>(UG/L)<br>(39600)                         | METHYL<br>PARA-<br>THION,<br>TOT. IN<br>BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39601) | METHYL<br>TRI-<br>THION,<br>TOT. IN<br>BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39790)    | METHYL<br>TRI-<br>THION,<br>TOT. IN<br>BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39791) | PARA-<br>THION,<br>TOTAL<br>(UG/L)<br>(39540)                                  | PARA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39541)  | DI-<br>SYSTON<br>TOTAL<br>(UG/L)<br>(39011)                                   | PHORATE<br>OTAL<br>(UG/L)<br>(39023)                                           |
| AUG<br>11... | <0.01                                                               | <0.1                                                                                  | <0.10                                                                                         | <0.01                                                                           | <0.1                                                                                    | <0.01                                                                                    | <0.1                                                                                   | <0.01                                                                          | <0.1                                                                            | <0.01                                                                         | <0.01                                                                          |
| DATE         | PER-<br>THANE<br>TOTAL<br>(UG/L)<br>(39034)                         | PER-<br>THANE<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(81886)                   | TOX-<br>APHENE,<br>TOTAL<br>(UG/L)<br>(39400)                                                 | TOXA-<br>PHENE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39403)  | TOTAL<br>TRI-<br>THION<br>(UG/L)<br>(39786)                                             | TRI-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39787)            | 2,4-D,<br>TOTAL<br>(UG/L)<br>(39730)                                                   | 2,4,5-T<br>TOTAL<br>(UG/L)<br>(39740)                                          | MIREX,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39758)           | SILVEX,<br>TOTAL<br>(UG/L)<br>(39760)                                         | 2, 4-DP<br>TOTAL<br>(UG/L)<br>(82183)                                          |
| AUG<br>11... | <0.1                                                                | <1.00                                                                                 | <1                                                                                            | <10                                                                             | <0.01                                                                                   | <0.1                                                                                     | <0.01                                                                                  | <0.01                                                                          | <0.1                                                                            | <0.01                                                                         | <0.01                                                                          |



## SOUTH FLORIDA

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## KISSIMMEE RIVER BASIN

02264495 SHINGLE CREEK AT CAMPBELL, FL

LOCATION.--Lat 28°16'01", long 81°26'53", in SE¼ sec.31, T.25 S., R.29 E., Osceola County, Hydrologic Unit 03090101, on right bank 200 ft downstream from bridge on county road, 300 ft downstream from Atlantic Coast Line Railroad bridge, 0.8 mi northeast of Campbell, and 2.5 mi upstream from Lake Tohopekaliga.

DRAINAGE AREA.--180 mi<sup>2</sup>, approximately, includes part of watershed in Reedy Creek Swamp.

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Water-stage recorder for Lake Tohopekaliga at Kissimmee (station 02264900) used as auxiliary gage for this station.

REMARKS.--Records poor. Natural flow of stream affected by several canals, levees, and control structures which divert an undetermined amount of water into Shingle Creek above station or into the Reedy Creek basin.

AVERAGE DISCHARGE.--18 years, 134 ft<sup>3</sup>/s, 97,080 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,510 ft<sup>3</sup>/s, Oct. 5, 1969, gage height, 59.72 ft; minimum daily discharge, 3.1 ft<sup>3</sup>/s, May 9,10, 1971; minimum gage height, 49.78 ft May 10, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 990 ft<sup>3</sup>/s, Jan. 14, gage height 57.98 ft; minimum daily discharge, 33 ft<sup>3</sup>/s, May 18,30,31, June 1; minimum gage height, 52.07 ft, June 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC  | JAN   | FEB  | MAR  | APR  | MAY  | JUN  | JUL   | AUG    | SEP   |
|-------------|-------|-------|------|-------|------|------|------|------|------|-------|--------|-------|
| 1           | 355   | 111   | 89   | 251   | 179  | 117  | 82   | 45   | 33   | 210   | 255    | 213   |
| 2           | 314   | 112   | 92   | 301   | 173  | 109  | 77   | 43   | 36   | 178   | 222    | 201   |
| 3           | 294   | 112   | 95   | 273   | 168  | 104  | 75   | 47   | 40   | 180   | 297    | 197   |
| 4           | 528   | 110   | 92   | 275   | 158  | 105  | 76   | 45   | 49   | 180   | 296    | 196   |
| 5           | 646   | 104   | 128  | 318   | 151  | 115  | 75   | 44   | 50   | 239   | 230    | 193   |
| 6           | 695   | 101   | 191  | 333   | 147  | 105  | 72   | 42   | 45   | 220   | 349    | 185   |
| 7           | 716   | 99    | 155  | 330   | 143  | 103  | 69   | 40   | 46   | 232   | 315    | 215   |
| 8           | 687   | 100   | 149  | 331   | 180  | 102  | 65   | 39   | 52   | 194   | 286    | 258   |
| 9           | 653   | 98    | 157  | 285   | 223  | 98   | 63   | 42   | 56   | 173   | 280    | 262   |
| 10          | 628   | 99    | 151  | 598   | 199  | 97   | 65   | 46   | 75   | 170   | 297    | 367   |
| 11          | 609   | 101   | 137  | 778   | 237  | 97   | 63   | 37   | 72   | 196   | 291    | 340   |
| 12          | 566   | 100   | 124  | 809   | 266  | 96   | 61   | 35   | 72   | 212   | 291    | 287   |
| 13          | 477   | 101   | 115  | 941   | 234  | 86   | 68   | 36   | 84   | 208   | 345    | 301   |
| 14          | 400   | 102   | 162  | 971   | 213  | 102  | 66   | 37   | 99   | 162   | 365    | 304   |
| 15          | 337   | 100   | 141  | 876   | 215  | 125  | 63   | 36   | 106  | 129   | 378    | 319   |
| 16          | 288   | 99    | 139  | 772   | 203  | 287  | 61   | 35   | 118  | 112   | 377    | 300   |
| 17          | 257   | 97    | 149  | 696   | 186  | 273  | 60   | 34   | 153  | 102   | 361    | 269   |
| 18          | 236   | 100   | 156  | 645   | 191  | 234  | 62   | 33   | 134  | 84    | 467    | 237   |
| 19          | 232   | 99    | 148  | 595   | 180  | 224  | 63   | 34   | 191  | 80    | 421    | 215   |
| 20          | 209   | 99    | 130  | 492   | 169  | 228  | 60   | 36   | 349  | 79    | 378    | 188   |
| 21          | 191   | 90    | 121  | 398   | 158  | 232  | 56   | 39   | 262  | 84    | 353    | 185   |
| 22          | 178   | 93    | 111  | 333   | 149  | 210  | 58   | 38   | 252  | 103   | 342    | 194   |
| 23          | 170   | 98    | 109  | 289   | 143  | 171  | 58   | 35   | 260  | 107   | 319    | 206   |
| 24          | 160   | 97    | 108  | 262   | 138  | 140  | 56   | 35   | 267  | 108   | 288    | 201   |
| 25          | 155   | 95    | 125  | 237   | 133  | 125  | 52   | 37   | 309  | 106   | 270    | 184   |
| 26          | 145   | 93    | 115  | 230   | 110  | 112  | 51   | 35   | 317  | 152   | 257    | 162   |
| 27          | 135   | 91    | 111  | 221   | 100  | 108  | 51   | 36   | 282  | 141   | 241    | 139   |
| 28          | 132   | 89    | 111  | 199   | 116  | 101  | 49   | 35   | 258  | 158   | 223    | 121   |
| 29          | 136   | 91    | 113  | 191   | ---  | 96   | 48   | 34   | 242  | 166   | 218    | 103   |
| 30          | 128   | 87    | 111  | 188   | ---  | 90   | 47   | 33   | 231  | 172   | 212    | 89    |
| 31          | 119   | ---   | 109  | 184   | ---  | 84   | ---  | 33   | ---  | 209   | 209    | ---   |
| TOTAL       | 10776 | 2968  | 3944 | 13602 | 4862 | 4276 | 1872 | 1176 | 4540 | 4846  | 9433   | 6631  |
| MEAN        | 348   | 98.9  | 127  | 439   | 174  | 138  | 62.4 | 37.9 | 151  | 156   | 304    | 221   |
| MAX         | 716   | 112   | 191  | 971   | 266  | 287  | 82   | 47   | 349  | 239   | 467    | 367   |
| MIN         | 119   | 87    | 89   | 184   | 100  | 84   | 47   | 33   | 33   | 79    | 209    | 89    |
| AC-FT       | 21370 | 5890  | 7820 | 26980 | 9640 | 8480 | 3710 | 2330 | 9010 | 9610  | 18710  | 13150 |
| CAL YR 1985 | TOTAL | 60700 |      | MEAN  | 166  | MAX  | 782  | MIN  | 27   | AC-FT | 120400 |       |
| WTR YR 1986 | TOTAL | 68926 |      | MEAN  | 189  | MAX  | 971  | MIN  | 33   | AC-FT | 136700 |       |

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02264900 LAKE TOHOPEKALIGA AT KISSIMMEE, FL

LOCATION.--Lat 28°17'20", long 81°24'20", in NW¼ sec.27, T.25 S., R.29 E., Osceola County, Hydrologic Unit 03090101, at north end of lake, on end of public pier at Kissimmee.

SURFACE AREA.--18,790 acres (29.4 mi<sup>2</sup>).

DRAINAGE AREA.--620 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--January 1942 to current year. Records of elevations prior to October 1960 are unpublished and available in files of the Orlando Subdistrict Office.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to June 15, 1950, at site 9 mi south on west shore of lake at datum 50.36 ft higher.

REMARKS.--Lake is one of the Kissimmee River headwaters chain of lakes. Since 1963, the improvement of canals and natural drains between these lakes and the construction of dams with gated controls has resulted in the partial regulation of lake stages.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 59.40 ft, Sept. 25, 1960; minimum daily, 48.37 ft, Apr. 22, 1979.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 54.19 | 54.96 | 54.90 | 55.12 | 55.03 | 54.85 | 54.31 | 53.25 | 52.03 | 52.46 | 53.15 | 53.62 |
| 2           | 54.21 | 54.90 | 54.86 | 55.19 | 55.05 | 54.89 | 54.27 | 53.18 | 51.98 | 52.48 | 53.17 | 53.62 |
| 3           | 54.26 | 54.90 | 54.79 | 55.20 | 55.06 | 54.92 | 54.22 | 53.08 | 51.98 | 52.49 | 53.26 | 53.62 |
| 4           | 54.31 | 54.86 | 54.81 | 55.22 | 55.08 | 54.94 | 54.16 | 53.06 | 51.97 | 52.54 | 53.31 | 53.64 |
| 5           | 54.51 | 54.83 | 54.85 | 55.19 | 55.08 | 54.92 | 54.09 | 53.05 | 51.91 | 52.59 | 53.34 | 53.66 |
| 6           | 54.53 | 54.83 | 54.86 | 55.21 | 55.04 | 54.92 | 54.04 | 52.99 | 51.94 | 52.63 | 53.37 | 53.69 |
| 7           | 54.56 | 54.85 | 54.88 | 55.23 | 54.96 | 54.92 | 53.99 | 52.95 | 51.98 | 52.64 | 53.40 | 53.72 |
| 8           | 54.61 | 54.84 | 54.91 | 55.19 | 54.97 | 54.93 | 53.95 | 52.88 | 52.03 | 52.65 | 53.47 | 53.77 |
| 9           | 54.58 | 54.85 | 54.92 | 55.21 | 54.98 | 54.97 | 53.89 | 52.78 | 52.01 | 52.65 | 53.54 | 53.84 |
| 10          | 54.64 | 54.86 | 54.95 | 55.32 | 54.96 | 54.98 | 53.82 | 52.71 | 51.99 | 52.66 | 53.60 | 53.91 |
| 11          | 54.69 | 54.86 | 54.98 | 55.22 | 54.93 | 54.97 | 53.79 | 52.69 | 51.99 | 52.71 | 53.66 | 53.95 |
| 12          | 54.72 | 54.88 | 54.99 | 55.22 | 54.85 | 55.00 | 53.76 | 52.66 | 52.03 | 52.80 | 53.67 | 53.91 |
| 13          | 54.75 | 54.90 | 55.02 | 55.15 | 54.80 | 55.09 | 53.74 | 52.60 | 52.02 | 52.84 | 53.71 | 53.88 |
| 14          | 54.77 | 54.90 | 54.92 | 55.11 | 54.85 | 55.07 | 53.68 | 52.58 | 52.03 | 52.85 | 53.71 | 53.88 |
| 15          | 54.80 | 54.91 | 54.92 | 55.07 | 54.85 | 55.06 | 53.68 | 52.56 | 52.07 | 52.85 | 53.63 | 53.83 |
| 16          | 54.80 | 54.91 | 54.93 | 55.00 | 54.87 | 55.11 | 53.66 | 52.52 | 52.07 | 52.84 | 53.58 | 53.80 |
| 17          | 54.81 | 54.90 | 54.93 | 54.95 | 54.90 | 55.04 | 53.64 | 52.49 | 52.07 | 52.82 | 53.54 | 53.80 |
| 18          | 54.81 | 54.89 | 54.92 | 54.91 | 54.93 | 55.00 | 53.65 | 52.48 | 52.12 | 52.84 | 53.51 | 53.81 |
| 19          | 54.83 | 54.91 | 54.92 | 54.86 | 54.95 | 54.91 | 53.62 | 52.45 | 52.15 | 52.83 | 53.58 | 53.81 |
| 20          | 54.84 | 54.97 | 54.93 | 54.82 | 54.94 | 54.78 | 53.65 | 52.46 | 52.32 | 52.82 | 53.60 | 53.83 |
| 21          | 54.86 | 55.10 | 54.92 | 54.85 | 54.96 | 54.56 | 53.64 | 52.42 | 52.25 | 52.80 | 53.55 | 53.83 |
| 22          | 54.86 | 54.98 | 54.93 | 54.91 | 54.96 | 54.38 | 53.54 | 52.38 | 52.28 | 52.78 | 53.49 | 53.86 |
| 23          | 54.87 | 54.90 | 54.96 | 54.93 | 54.96 | 54.30 | 53.49 | 52.38 | 52.29 | 52.81 | 53.45 | 53.88 |
| 24          | 54.86 | 54.89 | 54.98 | 54.93 | 54.95 | 54.26 | 53.47 | 52.38 | 52.31 | 52.83 | 53.42 | 53.89 |
| 25          | 54.84 | 54.88 | 54.92 | 54.97 | 54.87 | 54.28 | 53.45 | 52.33 | 52.36 | 52.85 | 53.45 | 53.90 |
| 26          | 54.86 | 54.88 | 54.93 | 54.99 | 54.94 | 54.29 | 53.41 | 52.31 | 52.39 | 52.86 | 53.47 | 53.90 |
| 27          | 54.90 | 54.89 | 54.98 | 54.90 | 54.98 | 54.29 | 53.37 | 52.28 | 52.40 | 52.89 | 53.49 | 53.90 |
| 28          | 54.90 | 54.90 | 54.98 | 54.95 | 54.90 | 54.29 | 53.34 | 52.24 | 52.41 | 52.93 | 53.53 | 53.90 |
| 29          | 54.91 | 54.89 | 54.98 | 55.00 | ---   | 54.30 | 53.29 | 52.18 | 52.42 | 52.94 | 53.53 | 53.90 |
| 30          | 54.96 | 54.91 | 54.98 | 55.01 | ---   | 54.31 | 53.27 | 52.13 | 52.46 | 52.99 | 53.55 | 53.91 |
| 31          | 55.02 | ---   | 55.02 | 55.02 | ---   | 54.32 | ---   | 52.08 | ---   | 53.04 | 53.59 | ---   |
| MEAN        | 54.71 | 54.90 | 54.93 | 55.06 | 54.95 | 54.74 | 53.73 | 52.60 | 52.14 | 52.76 | 53.49 | 53.82 |
| MAX         | 55.02 | 55.10 | 55.02 | 55.32 | 55.08 | 55.11 | 54.31 | 53.25 | 52.46 | 53.04 | 53.71 | 53.95 |
| MIN         | 54.19 | 54.83 | 54.79 | 54.82 | 54.80 | 54.26 | 53.27 | 52.08 | 51.91 | 52.46 | 53.15 | 53.62 |
| CAL YR 1985 | MEAN  | 53.76 | MAX   | 55.10 | MIN   | 51.88 |       |       |       |       |       |       |
| WTR YR 1986 | MEAN  | 53.98 | MAX   | 55.32 | MIN   | 51.91 |       |       |       |       |       |       |

## SOUTH FLORIDA

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## KISSIMMEE RIVER BASIN

02266200 WHITTENHORSE CREEK NEAR VINELAND, FL

LOCATION.--Lat 28°23'05", long 81°37'00", in NW¼ sec.21, T.24 S., R.27 E., Orange County, Hydrologic Unit 03090101, near center of channel, 12 ft downstream from culverts on Hartzog Road, 7 mi west of Vineland.

DRAINAGE AREA.--12.4 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1966 to current year.

## WATER-DISCHARGE RECORDS

GAGE.--Water-stage recorder. Datum of gage is 7.23 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Estimated daily discharges: Oct. 1-29, Nov. 4 to Dec. 17. Records good except for estimated daily discharges, which are poor.

AVERAGE DISCHARGE.--20 years, 2.88 ft<sup>3</sup>/s, 3.15 in/yr, 2,090 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 52 ft<sup>3</sup>/s, July 27, 1984; maximum gage height, 94.78 ft, July 27, 1984; no flow for many days each year; creek dry at gage for many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 38 ft<sup>3</sup>/s, Jan. 13,14; maximum gage height, 94.59 ft, Jan. 13-15; no flow for many days; creek dry at gage for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT   | NOV     | DEC    | JAN   | FEB   | MAR   | APR   | MAY | JUN  | JUL | AUG   | SEP   |       |      |
|-------------|-------|---------|--------|-------|-------|-------|-------|-----|------|-----|-------|-------|-------|------|
| 1           | 6.8   | 7.0     | .23    | 7.2   | 14    | 7.4   | 5.5   | .00 | .00  | .00 | .00   | 2.9   |       |      |
| 2           | 6.6   | 7.1     | .22    | 8.4   | 13    | 7.2   | 5.1   | .00 | .00  | .00 | .00   | 3.0   |       |      |
| 3           | 9.0   | 7.0     | .45    | 8.4   | 13    | 7.0   | 4.6   | .00 | .00  | .00 | .00   | 3.2   |       |      |
| 4           | 15    | 5.4     | .60    | 8.4   | 12    | 6.7   | 4.2   | .00 | .00  | .00 | .00   | 3.4   |       |      |
| 5           | 25    | 4.5     | 6.0    | 8.8   | 11    | 6.5   | 3.7   | .00 | .00  | .00 | .00   | 3.4   |       |      |
| 6           | 25    | 3.8     | 10     | 9.0   | 11    | 6.1   | 3.4   | .00 | .00  | .00 | .00   | 3.5   |       |      |
| 7           | 23    | 3.2     | 10     | 8.8   | 10    | 5.8   | 3.0   | .00 | .00  | .00 | .00   | 3.5   |       |      |
| 8           | 20    | 2.7     | 9.0    | 9.4   | 10    | 5.3   | 2.7   | .00 | .00  | .00 | .00   | 4.0   |       |      |
| 9           | 16    | 2.3     | 8.0    | 9.4   | 11    | 5.1   | 2.4   | .00 | .00  | .00 | .00   | 7.8   |       |      |
| 10          | 19    | 2.1     | 7.4    | 17    | 11    | 5.0   | 2.2   | .00 | .00  | .00 | .00   | 12    |       |      |
| 11          | 18    | 2.0     | 6.8    | 31    | 11    | 5.0   | 1.9   | .00 | .00  | .00 | .00   | 12    |       |      |
| 12          | 17    | 1.8     | 6.0    | 35    | 13    | 4.9   | 1.7   | .00 | .00  | .00 | .00   | 11    |       |      |
| 13          | 15    | 1.5     | 5.5    | 38    | 12    | 4.7   | 2.0   | .00 | .00  | .00 | .00   | 11    |       |      |
| 14          | 13    | 1.3     | 5.2    | 38    | 12    | 4.8   | 2.0   | .00 | .00  | .00 | .00   | 11    |       |      |
| 15          | 11    | 1.2     | 7.6    | 37    | 11    | 6.4   | 1.7   | .00 | .00  | .00 | .00   | 9.9   |       |      |
| 16          | 10    | 1.0     | 7.4    | 35    | 10    | 11    | 1.5   | .00 | .00  | .00 | .00   | 9.1   |       |      |
| 17          | 8.0   | .90     | 7.1    | 33    | 9.9   | 12    | 1.3   | .00 | .00  | .00 | .00   | 8.1   |       |      |
| 18          | 7.8   | .76     | 7.1    | 32    | 9.8   | 12    | 1.2   | .00 | .00  | .00 | .05   | 7.3   |       |      |
| 19          | 12    | .67     | 6.8    | 31    | 9.6   | 12    | 1.1   | .00 | .00  | .00 | .10   | 7.0   |       |      |
| 20          | 12    | .56     | 6.6    | 28    | 9.2   | 12    | .94   | .00 | .00  | .00 | .16   | 6.4   |       |      |
| 21          | 10    | .47     | 6.3    | 26    | 8.7   | 12    | .80   | .00 | .00  | .00 | .34   | 5.8   |       |      |
| 22          | 9.0   | .45     | 5.9    | 24    | 8.3   | 11    | .63   | .00 | .00  | .00 | 1.1   | 5.0   |       |      |
| 23          | 8.2   | .44     | 5.7    | 23    | 8.0   | 10    | .53   | .00 | .00  | .00 | 1.2   | 4.4   |       |      |
| 24          | 7.2   | .43     | 5.5    | 22    | 7.6   | 9.6   | .35   | .00 | .00  | .00 | 1.2   | 3.9   |       |      |
| 25          | 6.4   | .42     | 6.0    | 20    | 7.2   | 8.9   | .26   | .00 | .00  | .00 | 1.2   | 3.4   |       |      |
| 26          | 6.0   | .38     | 5.7    | 19    | 6.6   | 8.4   | .19   | .00 | .00  | .00 | 1.2   | 2.9   |       |      |
| 27          | 5.8   | .34     | 5.4    | 19    | 6.2   | 8.1   | .13   | .00 | .00  | .00 | 1.2   | 2.5   |       |      |
| 28          | 5.2   | .31     | 5.2    | 18    | 7.3   | 7.5   | .05   | .00 | .00  | .00 | 1.2   | 2.1   |       |      |
| 29          | 4.9   | .28     | 5.1    | 18    | ---   | 7.1   | .00   | .00 | .00  | .00 | 1.1   | 1.8   |       |      |
| 30          | 4.9   | .25     | 4.9    | 16    | ---   | 6.6   | .00   | .00 | .00  | .00 | 1.3   | 1.5   |       |      |
| 31          | 5.8   | ---     | 4.6    | 15    | ---   | 6.1   | ---   | .00 | ---  | .00 | 2.5   | ---   |       |      |
| TOTAL       | 362.6 | 60.56   | 178.30 | 652.8 | 283.4 | 242.2 | 55.08 | .00 | .00  | .00 | 13.85 | 172.8 |       |      |
| MEAN        | 11.7  | 2.02    | 5.75   | 21.1  | 10.1  | 7.81  | 1.84  | .00 | .00  | .00 | .45   | 5.76  |       |      |
| MAX         | 25    | 7.1     | 10     | 38    | 14    | 12    | 5.5   | .00 | .00  | .00 | 2.5   | 12    |       |      |
| MIN         | 4.9   | .25     | .22    | 7.2   | 6.2   | 4.7   | .00   | .00 | .00  | .00 | .00   | 1.5   |       |      |
| CFSM        | .94   | .16     | .46    | 1.70  | .81   | .63   | .15   | .00 | .00  | .00 | .04   | .46   |       |      |
| IN.         | 1.09  | .18     | .53    | 1.96  | .85   | .73   | .17   | .00 | .00  | .00 | .04   | .52   |       |      |
| AC-FT       | 719   | 120     | 354    | 1290  | 562   | 480   | 109   | .00 | .00  | .00 | 27    | 343   |       |      |
| CAL YR 1985 | TOTAL | 952.66  | MEAN   | 2.61  | MAX   | 25    | MIN   | .00 | CFSM | .21 | IN.   | 2.86  | AC-FT | 1890 |
| WTR YR 1986 | TOTAL | 2021.59 | MEAN   | 5.54  | MAX   | 38    | MIN   | .00 | CFSM | .45 | IN.   | 6.06  | AC-FT | 4010 |

SOUTH FLORIDA  
KISSIMMEE RIVER BASIN

02266200 WHITTENHORSE CREEK NEAR VINELAND, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968-72, 1974, 1976-80, 1982 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | TIME                         | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>(STAND-<br>ARD<br>UNITS)<br>(00400)                      | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010)          | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080)        | TUR-<br>BID-<br>ITY<br>(NTU)<br>(00076)                         | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300)                  | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3)<br>(00900)               | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT FLD<br>MG/L AS<br>CACO3<br>(00902) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA)<br>(00915)                       | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG)<br>(00925) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930)          |
|--------------|------------------------------|--------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|
| NOV<br>05... | 0835                         | --                                                           | --                                                             | --                                                       | 320                                                            | 0.50                                                            | --                                                              | 25                                                              | 0                                                                            | 6.0                                                                           | 2.4                                                             | 7.0                                                              |
| MAR<br>03... | 0845                         | 82                                                           | 3.50                                                           | 10.5                                                     | --                                                             | --                                                              | 4.4                                                             | 16                                                              | 0                                                                            | 3.4                                                                           | 1.9                                                             | 5.8                                                              |
| DATE         | PERCENT<br>SODIUM<br>(00932) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO<br>(00931)           | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00605)              | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)          | PHOS-<br>PHORUS,<br>ORTHO,<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) |
| NOV<br>05... | 36                           | 0.6                                                          | 1.3                                                            | 49                                                       | 19                                                             | 0.020                                                           | 0.020                                                           | 0.150                                                           | 1.2                                                                          | 1.4                                                                           | 0.060                                                           | 0.030                                                            |
| MAR<br>03... | 41                           | 0.6                                                          | 1.2                                                            | 20                                                       | 11                                                             | --                                                              | --                                                              | --                                                              | --                                                                           | --                                                                            | --                                                              | --                                                               |



## SOUTH FLORIDA

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## KISSIMMEE RIVER BASIN

02266294 LATERAL 405 BELOW S-405 NEAR VINELAND, FL

## WATER-QUALITY RECORDS

LOCATION.--Lat 28°23'39", long 81°35'07", in SW¼ sec.14, T.24 S., R. 27E., Orange County, Hydrologic Unit 03090101, at downstream side of structure S-405 on Bear Island Road, 1.7 mi south of Walt Disney World's Magic Kingdom, and 6 mi southwest of Windermere.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--Water years 1971, 1972, 1975 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | TUR-<br>BID-<br>IDITY<br>(NTU)<br>(00076) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3)<br>(00900) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT FLD<br>MG/L AS<br>CACO3<br>(00902) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA)<br>(00915) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG)<br>(00925) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930) |
|--------------|------|--------------------------------------------------------------|-------------------------------------------|-------------------------------------------------|---------------------------------------------------------|-------------------------------------------|------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|
| NOV<br>04... | 1206 | --                                                           | --                                        | --                                              | 800                                                     | 0.50                                      | --                                             | 46                                                | 35                                                                           | 11                                                      | 4.5                                                             | 9.0                                                     |
| MAR<br>03... | 1212 | 115                                                          | 5.20                                      | 16.5                                            | 480                                                     | 0.90                                      | 6.2                                            | 43                                                | 33                                                                           | 10                                                      | 4.3                                                             | 9.2                                                     |
| MAY<br>05... | 0807 | 159                                                          | 5.70                                      | 23.5                                            | 320                                                     | 0.50                                      | 2.7                                            | 58                                                | 32                                                                           | 15                                                      | 5.1                                                             | 9.2                                                     |
| AUG<br>11... | 1135 | 146                                                          | 6.50                                      | 29.0                                            | 280                                                     | 0.80                                      | 3.1                                            | 54                                                | 27                                                                           | 15                                                      | 3.9                                                             | 6.9                                                     |

| DATE              | PERCENT<br>SODIUM<br>(00932) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO<br>(00931) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00605) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | PHOS-<br>PHORUS,<br>ORTHO,<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) |
|-------------------|------------------------------|----------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------|
| NOV<br>04...      | 27                           | 0.6                                                | 5.0                                                            | 52                                                       | 24                                                             | 0.030                                                           | 0.080                                                           | 0.800                                                           | 2.2                                                             | 3.0                                                                           | 0.220                                                  | 0.170                                                            |
| MAR 1986<br>03... | 29                           | 0.6                                                | 4.9                                                            | 32                                                       | 20                                                             | 0.020                                                           | 0.290                                                           | 0.520                                                           | 1.8                                                             | 2.3                                                                           | 0.120                                                  | 0.110                                                            |
| MAY<br>05...      | 24                           | 0.5                                                | 4.3                                                            | 34                                                       | 25                                                             | 0.020                                                           | 0.030                                                           | 0.130                                                           | 1.9                                                             | 2.0                                                                           | 0.110                                                  | 0.050                                                            |
| AUG<br>11...      | 21                           | 0.4                                                | 3.3                                                            | 24                                                       | 15                                                             | 0.010                                                           | 0.010                                                           | 0.070                                                           | 1.9                                                             | 2.0                                                                           | 0.150                                                  | 0.070                                                            |

| DATE         | ALUM-<br>INUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AL)<br>(01105) | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS)<br>(01002) | BERYL-<br>LIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BE)<br>(01012) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD)<br>(01027) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR)<br>(01034) | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU)<br>(01042) | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE)<br>(01045) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB)<br>(01051) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN)<br>(01055) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG)<br>(71900) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI)<br>(01067) | SELE-<br>NIUM,<br>TOTAL<br>(UG/L<br>AS SE)<br>(01147) |
|--------------|---------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------|
| MAY<br>05... | 380                                                                       | 2                                              | <10                                                                        | <1                                                                 | <10                                                                       | 11                                                                 | 690                                                              | <1                                                               | 20                                                                         | 0.60                                                               | <1                                                                 | <1                                                    |
| AUG<br>11... | 280                                                                       | 6                                              | <10                                                                        | <1                                                                 | <10                                                                       | 6                                                                  | 420                                                              | <5                                                               | 20                                                                         | <0.10                                                              | 4                                                                  | <1                                                    |

| DATE         | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN)<br>(01092) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | PCB,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39516) | PCB,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39519) | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L)<br>(39250) | PCN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39251) | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39330) | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39333) | CHLOR-<br>DANE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39350) | CHLOR-<br>DANE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39351) | DDD,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39360) | DDD,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39363) |
|--------------|------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|
| AUG<br>11... | <10                                                              | 37                                                       | <0.1                                                               | <1                                                                  | <0.10                                                                    | <1.0                                                                | <0.010                                                                | <0.1                                                                   | <0.1                                                                          | <1.0                                                                           | <0.010                                                             | 0.3                                                                 |

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02266294 LATERAL 405 BELOW S-405 NEAR VINELAND, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | DDE,<br>TOTAL<br>(UG/L)<br>(39365)                                             | DDE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39368)          | DDT,<br>TOTAL<br>(UG/L)<br>(39370)                                          | DDT,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39373)            | DI-<br>AZINON,<br>TOTAL<br>(UG/L)<br>(39570)                                    | DI-<br>AZINON,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39571) | DI-<br>ELDRIN,<br>TOTAL<br>(UG/L)<br>(39380)                                   | DI-<br>ELDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39383) | ENDO-<br>SULFAN,<br>TOTAL<br>(UG/L)<br>(39388)                                 | ENDO-<br>SULFAN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39389) | ENDRIN,<br>TOTAL<br>(UG/L)<br>(39390)         |
|--------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------|
| AUG<br>11... | <0.010                                                                         | 0.1                                                                          | <0.010                                                                      | <0.1                                                                           | 0.04                                                                            | <0.1                                                                          | <0.010                                                                         | 0.1                                                                           | <0.010                                                                         | <0.1                                                                            | <0.010                                        |
| DATE         | ENDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39393)         | ETHION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39398)        | ETHION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39399)      | HEPTA-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39410) | HEPTA-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39413) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/L)<br>(39420) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39423) | MIREX,<br>TOTAL<br>(UG/L)<br>(39755)                                          | LINDANE<br>TOTAL<br>(UG/L)<br>(39340)                                          | LINDANE<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39343)          | MALA-<br>THION,<br>TOTAL<br>(UG/L)<br>(39530) |
| AUG<br>11... | <0.1                                                                           | <0.01                                                                        | <0.1                                                                        | <0.010                                                                         | <0.1                                                                            | <0.010                                                                        | <0.1                                                                           | <0.01                                                                         | <0.010                                                                         | <0.1                                                                            | 0.23                                          |
| DATE         | MALA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39531) | METH-<br>OXY-<br>CHLOR,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/L)<br>(39480)   | METH-<br>OXY-<br>CHLOR,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39481) | METHYL<br>PARA-<br>THION,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/L)<br>(39600)   | METHYL<br>PARA-<br>THION,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39601)   | METHYL<br>THION,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/L)<br>(39790)           | METHYL<br>THION,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39791)           | PARA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39540) | PARA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39541) | DI-<br>SYSTON<br>TOTAL<br>(UG/L)<br>(39011)                                     | PHORATE<br>TOTAL<br>(UG/L)<br>(39023)         |
| AUG<br>11... | <0.1                                                                           | <0.01                                                                        | <0.1                                                                        | <0.01                                                                          | <0.1                                                                            | <0.01                                                                         | <0.1                                                                           | <0.01                                                                         | <0.1                                                                           | <0.01                                                                           | <0.01                                         |
| DATE         | PER-<br>THANE<br>TOTAL<br>(UG/L)<br>(39034)                                    | PER-<br>THANE<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(81886) | TOX-<br>APHENE,<br>TOTAL<br>(UG/L)<br>(39400)                               | TOXA-<br>PHENE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39403) | TOTAL<br>TRI-<br>THION<br>(UG/L)<br>(39786)                                     | TRI-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39787) | 2,4-D,<br>TOTAL<br>(UG/L)<br>(39730)                                           | 2,4,5-T<br>TOTAL<br>(UG/L)<br>(39740)                                         | MIREX,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39758)          | SILVEX,<br>TOTAL<br>(UG/L)<br>(39760)                                           | 2, 4-DP<br>TOTAL<br>(UG/L)<br>(82183)         |
| AUG<br>11... | <0.1                                                                           | <1.00                                                                        | <1                                                                          | <10                                                                            | <0.01                                                                           | <0.1                                                                          | 0.08                                                                           | <0.01                                                                         | <0.1                                                                           | <0.01                                                                           | <0.01                                         |

## SOUTH FLORIDA

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## KISSIMMEE RIVER BASIN

02266300 REEDY CREEK NEAR VINELAND, FL

LOCATION.--Lat 28°19'57", long 81°34'48", in NE¼ sec.11, T.25 S., R.27 E., Osceola County, Hydrologic Unit 03090101, on downstream side of bridge on U.S. Highway 192, about 2.5 mi upstream from bridge on Interstate Highway 4, 6.5 mi southwest of Vineland, and 28 mi upstream from mouth.

DRAINAGE AREA.--75 mi<sup>2</sup>, approximately.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Water years 1960, 1962-66 (annual maximum), May 1966 to current year. Results of miscellaneous discharge measurements for some periods prior to May 1966 are unpublished and available in files of the Orlando Subdistrict Office.

GAGE.--Water-stage recorder. Datum of gage is 66.37 ft above National Geodetic Vertical Datum of 1929. Sept. 26, 1962, to January 1966, crest-stage gage at site 100 ft upstream at same datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--20 years, 31.80 ft<sup>3</sup>/s, 23,040 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,910 ft<sup>3</sup>/s, Sept. 11, 1960, gage height, 14.9 ft, from floodmark; no flow for many days in some years; minimum gage height, 8.18 ft, May 12, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 459 ft<sup>3</sup>/s, Jan. 11, gage height, 12.15 ft; minimum, 8.3 ft<sup>3</sup>/s, June 9, gage height, 8.73 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT   | NOV     | DEC  | JAN  | FEB  | MAR  | APR  | MAY   | JUN   | JUL   | AUG  | SEP  |
|-------------|-------|---------|------|------|------|------|------|-------|-------|-------|------|------|
| 1           | 52    | 34      | 18   | 55   | 86   | 31   | 31   | 13    | 9.8   | 21    | 40   | 90   |
| 2           | 63    | 48      | 18   | 88   | 83   | 30   | 30   | 14    | 9.7   | 20    | 31   | 77   |
| 3           | 51    | 26      | 20   | 122  | 82   | 29   | 30   | 13    | 11    | 27    | 61   | 79   |
| 4           | 261   | 24      | 21   | 58   | 75   | 29   | 29   | 14    | 12    | 27    | 62   | 43   |
| 5           | 222   | 22      | 43   | 48   | 69   | 29   | 27   | 12    | 12    | 34    | 164  | 36   |
| 6           | 207   | 20      | 99   | 51   | 64   | 27   | 25   | 12    | 11    | 52    | 212  | 34   |
| 7           | 159   | 21      | 59   | 47   | 62   | 27   | 25   | 13    | 9.9   | 56    | 134  | 35   |
| 8           | 119   | 21      | 37   | 69   | 72   | 26   | 24   | 13    | 9.8   | 48    | 73   | 60   |
| 9           | 93    | 21      | 32   | 78   | 78   | 26   | 24   | 12    | 9.8   | 29    | 52   | 108  |
| 10          | 100   | 22      | 45   | 166  | 75   | 28   | 24   | 12    | 18    | 23    | 43   | 93   |
| 11          | 86    | 22      | 45   | 411  | 75   | 40   | 23   | 12    | 14    | 21    | 38   | 86   |
| 12          | 74    | 22      | 22   | 268  | 77   | 29   | 21   | 12    | 14    | 21    | 51   | 63   |
| 13          | 62    | 21      | 20   | 184  | 74   | 27   | 23   | 12    | 18    | 23    | 51   | 73   |
| 14          | 66    | 20      | 38   | 183  | 71   | 30   | 23   | 11    | 24    | 20    | 68   | 72   |
| 15          | 86    | 20      | 55   | 164  | 71   | 40   | 24   | 11    | 25    | 18    | 83   | 63   |
| 16          | 73    | 20      | 50   | 116  | 69   | 83   | 22   | 12    | 26    | 17    | 79   | 61   |
| 17          | 48    | 19      | 57   | 98   | 69   | 105  | 21   | 11    | 41    | 17    | 52   | 42   |
| 18          | 66    | 17      | 40   | 86   | 71   | 106  | 21   | 12    | 44    | 21    | 45   | 37   |
| 19          | 63    | 18      | 46   | 84   | 69   | 64   | 20   | 12    | 50    | 25    | 39   | 45   |
| 20          | 39    | 23      | 64   | 92   | 68   | 53   | 19   | 13    | 81    | 19    | 52   | 52   |
| 21          | 36    | 35      | 46   | 118  | 76   | 48   | 19   | 16    | 82    | 17    | 67   | 34   |
| 22          | 33    | 25      | 31   | 116  | 54   | 46   | 18   | 15    | 59    | 17    | 69   | 31   |
| 23          | 31    | 22      | 29   | 124  | 46   | 43   | 18   | 13    | 58    | 17    | 67   | 30   |
| 24          | 31    | 22      | 32   | 115  | 44   | 40   | 18   | 12    | 65    | 17    | 47   | 31   |
| 25          | 47    | 23      | 42   | 104  | 43   | 38   | 18   | 12    | 62    | 17    | 43   | 30   |
| 26          | 54    | 31      | 40   | 101  | 40   | 37   | 18   | 12    | 42    | 19    | 60   | 28   |
| 27          | 44    | 41      | 43   | 100  | 34   | 37   | 17   | 11    | 33    | 31    | 40   | 27   |
| 28          | 42    | 43      | 31   | 99   | 29   | 36   | 17   | 10    | 35    | 40    | 38   | 27   |
| 29          | 41    | 19      | 29   | 99   | ---  | 37   | 15   | 10    | 25    | 38    | 42   | 26   |
| 30          | 37    | 18      | 29   | 92   | ---  | 33   | 14   | 9.9   | 23    | 36    | 65   | 25   |
| 31          | 34    | ---     | 28   | 89   | ---  | 32   | ---  | 9.9   | ---   | 43    | 81   | ---  |
| TOTAL       | 2420  | 740     | 1209 | 3625 | 1826 | 1286 | 658  | 376.8 | 934.0 | 831   | 2049 | 1538 |
| MEAN        | 78.1  | 24.7    | 39.0 | 117  | 65.2 | 41.5 | 21.9 | 12.2  | 31.1  | 26.8  | 66.1 | 51.3 |
| MAX         | 261   | 48      | 99   | 411  | 86   | 106  | 31   | 16    | 82    | 56    | 212  | 108  |
| MIN         | 31    | 17      | 18   | 47   | 29   | 26   | 14   | 9.9   | 9.7   | 17    | 31   | 25   |
| AC-FT       | 4800  | 1470    | 2400 | 7190 | 3620 | 2550 | 1310 | 747   | 1850  | 1650  | 4060 | 3050 |
| CAL YR 1985 | TOTAL | 11721.2 | MEAN | 32.1 | MAX  | 285  | MIN  | 4.7   | AC-FT | 23250 |      |      |
| WTR YR 1986 | TOTAL | 17492.8 | MEAN | 47.9 | MAX  | 411  | MIN  | 9.7   | AC-FT | 34700 |      |      |

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02266300 REEDY CREEK NEAR VINELAND, FL--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1961-63, 1965-66, 1968 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1977 to current year.

pH: June 1977 to current year.

WATER TEMPERATURE: June 1977 to current year.

DISSOLVED OXYGEN: June 1977 to current year.

INSTRUMENTATION.--Water-quality monitor since June 1977.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily mean, 391 microsiemens, May 12, 1985; minimum daily mean, 70 microsiemens, Oct. 6, 1985.

pH: Maximum daily mean, 7.4 units, Jan. 5, 1980, June 8, 1986; minimum daily mean, 4.9 units July 21, 1978.

WATER TEMPERATURE: Maximum daily mean, 28.5°C, July 14, 1980; minimum daily mean, 6.5°C, Dec. 26, 1983, Jan. 22, 1985.

DISSOLVED OXYGEN: Maximum daily mean, 9.8 mg/L, Mar. 3, 1980; minimum daily mean, .1 mg/L, Sept. 5, 1979.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily mean, 365 microsiemens, June 8; minimum daily mean, 70 microsiemens, Oct. 6.

DISSOLVED OXYGEN: Maximum daily mean, 8.9 mg/L, Dec. 27; minimum daily mean, 2.2 mg/L, Oct. 7.

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1    | 128 | --- | 229 | 136 | 120 | 176 | 185 | 236 | 322 | 225 | 188 | 100 |
| 2    | 127 | --- | 205 | 132 | 120 | 182 | 199 | 261 | 302 | 240 | 203 | 120 |
| 3    | 118 | --- | 190 | 128 | 121 | 192 | 205 | 264 | 321 | 232 | 133 | 123 |
| 4    | 83  | --- | 191 | 128 | 125 | 188 | 200 | 282 | 357 | 235 | 156 | 143 |
| 5    | 77  | --- | 156 | 137 | 129 | 183 | 203 | 254 | 362 | 227 | 99  | 159 |
| 6    | 70  | --- | 139 | 143 | 128 | 178 | 195 | 267 | 352 | 190 | 109 | 168 |
| 7    | --- | --- | 130 | 142 | 129 | 192 | 198 | 282 | 359 | 180 | 106 | 161 |
| 8    | 100 | 181 | 146 | 135 | 126 | 194 | 207 | 283 | 365 | 184 | 127 | 139 |
| 9    | 109 | 182 | 157 | 132 | 126 | 200 | 205 | 267 | 323 | 210 | 149 | 94  |
| 10   | 117 | 186 | 151 | 106 | 126 | 194 | 208 | 272 | 298 | 241 | 165 | 102 |
| 11   | 118 | 188 | 149 | 89  | 124 | 180 | 212 | 262 | 347 | 239 | 182 | 114 |
| 12   | 121 | 188 | 156 | 92  | 125 | 197 | 200 | 279 | 342 | 247 | 168 | 123 |
| 13   | 124 | 188 | 164 | 102 | 129 | 199 | 186 | 280 | 308 | 243 | 165 | 106 |
| 14   | 126 | 188 | 137 | 108 | 132 | 186 | 198 | 261 | 300 | 234 | 150 | 110 |
| 15   | 127 | 192 | 136 | 107 | 131 | 161 | 210 | 266 | 281 | 244 | 140 | 122 |
| 16   | 128 | 203 | 139 | 106 | 128 | 131 | 222 | 281 | 243 | 246 | 139 | 130 |
| 17   | 133 | 199 | 144 | 109 | 131 | 122 | 224 | 273 | 224 | 252 | 155 | 143 |
| 18   | 132 | 201 | 146 | 112 | 132 | 125 | 223 | 305 | 220 | 224 | 166 | 151 |
| 19   | 133 | 186 | 140 | 114 | 135 | 126 | 225 | 305 | 200 | 209 | 164 | 149 |
| 20   | 140 | 176 | 140 | 116 | 133 | 132 | 232 | 294 | 172 | 253 | 157 | 150 |
| 21   | 145 | 172 | 137 | 117 | 135 | 138 | 244 | 303 | 155 | 271 | 146 | 164 |
| 22   | 137 | 170 | 145 | 118 | 140 | 147 | 226 | 311 | 154 | 273 | 141 | 168 |
| 23   | --- | 177 | 156 | 120 | 143 | 150 | 242 | 309 | 162 | 252 | 144 | 172 |
| 24   | --- | 191 | 159 | 116 | 147 | 153 | 254 | 300 | 166 | 277 | 161 | 179 |
| 25   | 140 | 194 | 144 | 116 | 149 | 158 | 248 | 320 | 164 | 268 | 171 | 172 |
| 26   | 132 | 171 | 152 | 117 | 152 | 169 | 260 | 322 | 182 | 266 | 152 | 180 |
| 27   | 134 | 169 | 157 | 117 | --- | 172 | 252 | 307 | 211 | 222 | 166 | 180 |
| 28   | 141 | 172 | 173 | 117 | --- | 172 | 266 | 302 | 204 | 193 | 173 | 182 |
| 29   | 140 | 204 | 179 | 117 | --- | 164 | 243 | 307 | 222 | 175 | 159 | 172 |
| 30   | 143 | 220 | 187 | 119 | --- | 186 | 239 | 309 | 227 | 183 | 127 | 181 |
| 31   | 147 | --- | 194 | 120 | --- | 184 | --- | 325 | --- | 182 | 107 | --- |
| MEAN | --- | --- | 159 | 118 | --- | 169 | 220 | 287 | 262 | 230 | 151 | 145 |
| MAX  | --- | --- | 229 | 143 | --- | 200 | 266 | 325 | 365 | 277 | 203 | 182 |
| MIN  | --- | --- | 130 | 89  | --- | 122 | 185 | 236 | 154 | 175 | 99  | 94  |

## SOUTH FLORIDA

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## KISSIMMEE RIVER BASIN

02266300 REEDY CREEK NEAR VINELAND, FL--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1    | --- | 6.4 | 6.9 | 6.6 | 6.0 | 6.5 | 6.5 | 7.1 | 7.2 |     |     |     |
| 2    | --- | 6.3 | 6.8 | 6.4 | 6.1 | 6.5 | 6.5 | 7.2 | 7.2 |     |     |     |
| 3    | --- | 6.5 | 6.8 | 6.2 | 6.1 | 6.6 | 6.6 | 7.2 | 7.3 |     |     |     |
| 4    | --- | 6.6 | 6.8 | 6.3 | 6.2 | 6.6 | 6.6 | 7.1 | 7.3 |     |     |     |
| 5    | --- | 6.6 | 6.7 | 6.4 | 6.2 | 6.6 | 6.7 | 7.1 | 7.3 |     |     |     |
| 6    | --- | 6.6 | 6.3 | 6.4 | 6.2 | 6.5 | 6.7 | 7.2 | 7.3 |     |     |     |
| 7    | --- | 6.6 | 6.3 | 6.3 | 6.3 | 6.6 | 6.7 | 7.2 | 7.3 |     |     |     |
| 8    | --- | 6.6 | 6.5 | 6.3 | 6.3 | 6.6 | 6.8 | 7.2 | 7.4 |     |     |     |
| 9    | --- | 6.6 | 6.6 | 6.3 | 6.3 | 6.6 | 7.0 | 7.1 | 7.3 |     |     |     |
| 10   | --- | 6.6 | 6.5 | 6.2 | 6.3 | 6.2 | 7.1 | 7.1 | 7.2 |     |     |     |
| 11   | --- | 6.6 | 6.4 | 5.5 | 6.2 | 5.7 | 7.1 | 7.1 | 7.2 |     |     |     |
| 12   | --- | 6.6 | 6.5 | 5.3 | 6.1 | 5.9 | 7.1 | 7.1 | 7.2 |     |     |     |
| 13   | --- | 6.7 | 6.6 | 5.4 | 6.1 | 5.9 | 7.0 | 7.1 | 7.1 |     |     |     |
| 14   | --- | 6.7 | 6.5 | 5.5 | 6.1 | 5.9 | 7.0 | 7.1 | 6.9 |     |     |     |
| 15   | --- | 6.7 | 6.3 | 5.4 | 6.2 | 5.9 | 7.1 | 7.1 | 6.8 |     |     |     |
| 16   | --- | 6.7 | 6.4 | 5.6 | 6.1 | 5.8 | 7.1 | 7.2 | 6.7 |     |     |     |
| 17   | --- | 6.7 | 6.3 | 5.7 | 6.1 | 5.6 | 7.1 | 7.1 | 6.4 |     |     |     |
| 18   | --- | 6.8 | 6.4 | 5.8 | 6.2 | 5.5 | 7.0 | 7.2 | 6.4 |     |     |     |
| 19   | --- | 6.7 | 6.4 | 5.9 | 6.2 | 5.7 | 7.0 | 7.2 | 6.8 |     |     |     |
| 20   | --- | 6.6 | 6.3 | 5.8 | 6.1 | 5.7 | 7.0 | 7.2 | --- |     |     |     |
| 21   | --- | 6.5 | 6.3 | 5.8 | 6.1 | 5.8 | 7.1 | 7.1 | --- |     |     |     |
| 22   | --- | 6.5 | 6.4 | 6.0 | 6.2 | 5.9 | 7.1 | 7.0 | --- |     |     |     |
| 23   | --- | 6.6 | 6.5 | 5.9 | 6.3 | 6.0 | 7.0 | 7.0 | --- |     |     |     |
| 24   | --- | 6.7 | 6.6 | 5.9 | 6.3 | 6.0 | 7.1 | 7.0 | --- |     |     |     |
| 25   | --- | 6.7 | 6.5 | 5.9 | 6.4 | 6.1 | 7.1 | 7.0 | --- |     |     |     |
| 26   | --- | 6.6 | 6.5 | 5.9 | 6.4 | 6.2 | 7.1 | 7.0 | --- |     |     |     |
| 27   | --- | 6.6 | 6.5 | 5.9 | 6.5 | 6.2 | 7.1 | 7.0 | --- |     |     |     |
| 28   | --- | 6.6 | 6.6 | 5.8 | 6.6 | 6.3 | 7.1 | 7.1 | --- |     |     |     |
| 29   | --- | 6.8 | 6.7 | 5.9 | --- | 6.3 | 7.1 | 7.1 | --- |     |     |     |
| 30   | 6.3 | 6.9 | 6.7 | 5.9 | --- | 6.4 | 7.2 | 7.2 | --- |     |     |     |
| 31   | 6.3 | --- | 6.7 | 6.0 | --- | 6.4 | --- | 7.2 | --- |     |     |     |
| MEAN | --- | 6.6 | 6.5 | 5.9 | 6.2 | 6.1 | 7.0 | 7.1 | --- |     |     |     |
| MAX  | --- | 6.9 | 6.9 | 6.6 | 6.6 | 6.6 | 7.2 | 7.2 | --- |     |     |     |
| MIN  | --- | 6.3 | 6.3 | 5.3 | 6.0 | 5.5 | 6.5 | 7.0 | --- |     |     |     |



## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02266300 REEDY CREEK NEAR VINELAND, FL--Continued

TEMPERATURE, WATER (DEG C), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC | JAN | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|-----|-----|------|------|------|------|------|------|------|------|
| 1    | 24.0 | ---  |     |     | ---  | 14.5 | 20.0 | 22.5 | 25.5 | 26.0 | 27.0 | 25.0 |
| 2    | 25.0 | ---  |     |     | ---  | 12.5 | 20.0 | 22.5 | 25.5 | 26.5 | 26.5 | 26.0 |
| 3    | 24.5 | ---  |     |     | ---  | 13.5 | 20.0 | 23.0 | 25.5 | 26.5 | 25.0 | 26.0 |
| 4    | 24.5 | ---  |     |     | ---  | 16.0 | 20.5 | 23.0 | 25.5 | 25.5 | 25.5 | 26.0 |
| 5    | 24.5 | ---  |     |     | ---  | 16.5 | 21.0 | 23.0 | 25.5 | 24.5 | 24.5 | 26.0 |
| 6    | 23.0 | ---  |     |     | ---  | 15.5 | 21.0 | 23.5 | 25.5 | 24.0 | 25.5 | 25.5 |
| 7    | 17.0 | ---  |     |     | ---  | 16.5 | 21.0 | 23.5 | 26.5 | 24.5 | 25.5 | 25.0 |
| 8    | 23.0 | 18.0 |     |     | ---  | 16.0 | 21.5 | 23.5 | 26.5 | 25.5 | 26.0 | 25.0 |
| 9    | 23.5 | 18.5 |     |     | ---  | 18.0 | 21.0 | 24.0 | 26.0 | 26.0 | 26.0 | 24.5 |
| 10   | 24.0 | 19.5 |     |     | ---  | 19.0 | 18.5 | 23.5 | 25.0 | 27.0 | 26.0 | 24.0 |
| 11   | 24.5 | 21.0 |     |     | ---  | 21.0 | 19.0 | 21.5 | 25.5 | 26.5 | 25.5 | 24.5 |
| 12   | 24.5 | 21.0 |     |     | 16.5 | 22.0 | 19.0 | 21.0 | 25.0 | 25.5 | 25.5 | 25.0 |
| 13   | 24.5 | 21.5 |     |     | 12.5 | 23.0 | 20.0 | 21.5 | 24.5 | 25.0 | 24.5 | 25.0 |
| 14   | 25.0 | 22.0 |     |     | 13.0 | 21.5 | 20.0 | 22.0 | 24.5 | 26.0 | 25.0 | 25.5 |
| 15   | 25.0 | 22.0 |     |     | 16.5 | 19.5 | 20.5 | 22.0 | 24.5 | 26.5 | 25.0 | 25.5 |
| 16   | 25.0 | 22.0 |     |     | 15.5 | 20.0 | 21.0 | 22.0 | 24.0 | 27.0 | 25.5 | 25.5 |
| 17   | 25.0 | 21.0 |     |     | 17.5 | 22.0 | 19.0 | 22.0 | 23.5 | 27.0 | 25.5 | 25.0 |
| 18   | 25.0 | 22.0 |     |     | 18.0 | 21.0 | 19.0 | 22.5 | 23.5 | 26.5 | 26.0 | 24.5 |
| 19   | 25.0 | 22.5 |     |     | 18.5 | 22.5 | 19.5 | 23.0 | 24.0 | 25.5 | 26.0 | 24.5 |
| 20   | 24.5 | 23.5 |     |     | 20.5 | 23.0 | 20.0 | 23.0 | 24.0 | 27.5 | 25.0 | 25.0 |
| 21   | ---  | 24.0 |     |     | 21.0 | 19.0 | 21.0 | 22.0 | 24.0 | 27.5 | 25.0 | 24.5 |
| 22   | ---  | 24.0 |     |     | 21.5 | 16.0 | 20.0 | 23.0 | 23.5 | 27.0 | 25.0 | 25.0 |
| 23   | ---  | 22.5 |     |     | 19.5 | 15.0 | 18.5 | 23.0 | 24.0 | 26.0 | 26.0 | 25.0 |
| 24   | ---  | 22.5 |     |     | 19.0 | 16.0 | 18.0 | 24.0 | 24.5 | 26.0 | 26.5 | 25.0 |
| 25   | 23.5 | 22.0 |     |     | 17.0 | 17.0 | 19.0 | 24.0 | 24.5 | 26.0 | 26.5 | 25.5 |
| 26   | 23.5 | 21.0 |     |     | 15.0 | 19.0 | 20.0 | 24.0 | 24.5 | 26.0 | 27.0 | 25.5 |
| 27   | 24.0 | ---  |     |     | 18.0 | 20.0 | 21.0 | 24.5 | 25.5 | 25.0 | 26.5 | 25.5 |
| 28   | 24.5 | ---  |     |     | 16.5 | 19.5 | 21.5 | 25.0 | 25.5 | 25.0 | 26.0 | 25.5 |
| 29   | 24.5 | ---  |     |     | ---  | 19.5 | 22.0 | 24.5 | 25.5 | 25.0 | 25.5 | 25.5 |
| 30   | 24.0 | ---  |     |     | ---  | 20.0 | 22.0 | 24.5 | 25.5 | 25.5 | 25.0 | 25.5 |
| 31   | 23.0 | ---  |     |     | ---  | 19.5 | ---  | 25.0 | ---  | 26.5 | 25.0 | ---  |
| MEAN | ---  | ---  |     |     | ---  | 18.5 | 20.0 | 23.0 | 25.0 | 26.0 | 25.5 | 25.0 |
| MAX  | ---  | ---  |     |     | ---  | 23.0 | 22.0 | 25.0 | 26.5 | 27.5 | 27.0 | 26.0 |
| MIN  | ---  | ---  |     |     | ---  | 12.5 | 18.0 | 21.0 | 23.5 | 24.0 | 24.5 | 24.0 |

## KISSIMMEE RIVER BASIN

02266300 REEDY CREEK NEAR VINELAND, FL--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT  | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1           | 2.8  | 3.5 | 3.2 | 6.2 | 7.2 | 5.1 | --- | 4.4 | 4.0 | 3.7 | 4.3 |     |
| 2           | 2.8  | 3.4 | 3.4 | 4.8 | 7.4 | 4.4 | --- | 4.6 | 3.9 | 3.4 | 4.1 |     |
| 3           | 3.3  | 3.5 | 4.7 | 4.7 | 7.1 | 4.4 | --- | 4.5 | 3.9 | 3.8 | 4.7 |     |
| 4           | 3.5  | 3.9 | 5.1 | 4.4 | 6.8 | 4.5 | --- | 4.3 | 3.8 | 3.7 | 5.2 |     |
| 5           | 3.2  | 5.3 | 5.2 | 4.6 | 6.3 | 4.6 | --- | 4.2 | 4.0 | 4.3 | 5.2 |     |
| 6           | 3.4  | 5.9 | 4.7 | 6.1 | 6.0 | 4.5 | --- | 4.2 | 4.2 | 4.8 | 4.8 |     |
| 7           | 2.2  | 6.1 | 5.6 | 6.0 | 6.0 | 4.6 | --- | 3.7 | 4.1 | 4.8 | 4.6 |     |
| 8           | 4.0  | 5.6 | 5.4 | 5.7 | 5.7 | 4.5 | --- | 3.8 | 4.2 | 4.4 | 4.7 |     |
| 9           | 3.8  | 5.3 | 5.0 | 5.8 | 5.9 | 4.9 | --- | 3.4 | 4.1 | 3.7 | 4.7 |     |
| 10          | 3.3  | 5.0 | 4.8 | 6.1 | 5.6 | 5.9 | 5.3 | 3.4 | 3.9 | 3.0 | 4.7 |     |
| 11          | 3.3  | 4.5 | 4.3 | 5.0 | 5.2 | 5.7 | 5.3 | 4.4 | 3.5 | 3.2 | 4.7 |     |
| 12          | 3.2  | 4.5 | 4.5 | 5.5 | 6.0 | 4.8 | 5.1 | 4.7 | 3.1 | 3.4 | 4.9 |     |
| 13          | 3.4  | 4.4 | 4.4 | 6.1 | 6.4 | 4.6 | 4.8 | 4.8 | 3.7 | 3.6 | 4.8 |     |
| 14          | 3.2  | 4.3 | 4.8 | 6.6 | 6.1 | 5.0 | 5.1 | 5.0 | 3.6 | 3.3 | 5.0 |     |
| 15          | 3.1  | 4.4 | 6.6 | 6.8 | 5.7 | 5.8 | 5.2 | 4.9 | 4.1 | 3.4 | 4.9 |     |
| 16          | 3.1  | 4.4 | 6.7 | 6.8 | 5.6 | 6.6 | 5.1 | 4.8 | 4.7 | 3.3 | 4.7 |     |
| 17          | 3.3  | 4.6 | 6.4 | 6.2 | 5.4 | 5.9 | 5.4 | 4.7 | 4.7 | 3.5 | 4.7 |     |
| 18          | 3.0  | 4.4 | 6.7 | 6.0 | 5.2 | 6.0 | 5.4 | 4.4 | 4.6 | 3.9 | 4.6 |     |
| 19          | 3.0  | 4.0 | 6.6 | 5.8 | 5.1 | 5.9 | 5.1 | 4.2 | 4.5 | 3.6 | 4.5 |     |
| 20          | 3.2  | 3.4 | 6.9 | 6.5 | 4.9 | 5.9 | 4.8 | 4.1 | 4.4 | 3.2 | 4.6 |     |
| 21          | 3.2  | 3.0 | 7.3 | 6.9 | 4.8 | --- | 4.0 | 4.0 | 4.9 | 3.0 | 4.8 |     |
| 22          | 3.5  | 3.2 | 7.9 | 6.9 | 4.6 | --- | 4.2 | 4.0 | 4.5 | 3.2 | 4.7 |     |
| 23          | 3.6  | 3.6 | 7.8 | 6.4 | 4.7 | --- | 4.7 | 4.1 | 4.5 | 3.3 | 4.5 |     |
| 24          | 3.8  | 3.8 | 7.2 | 6.2 | 4.8 | --- | 4.9 | 4.0 | 4.3 | 3.2 | 4.3 |     |
| 25          | 3.8  | 3.9 | 6.5 | 6.3 | 4.8 | --- | 4.6 | 3.9 | 4.6 | 3.4 | 4.3 |     |
| 26          | 3.6  | 4.2 | 8.5 | 6.4 | 4.7 | --- | 4.2 | 3.8 | 4.2 | 3.8 | 4.2 |     |
| 27          | 3.5  | 4.2 | 8.9 | 7.4 | 6.5 | --- | 3.5 | 3.7 | 4.1 | 4.6 | 4.0 |     |
| 28          | 3.3  | 3.6 | 7.9 | 8.2 | 6.5 | --- | 3.4 | 3.6 | 4.2 | 4.8 | --- |     |
| 29          | 3.2  | 3.5 | 6.7 | 8.0 | --- | --- | 3.8 | 3.7 | 3.9 | 4.8 | --- |     |
| 30          | 3.4  | 3.5 | 6.7 | 7.6 | --- | --- | 3.8 | 4.2 | 4.0 | 4.6 | --- |     |
| 31          | 3.5  | --- | 6.9 | 7.3 | --- | --- | --- | 4.0 | --- | 4.5 | --- |     |
| MEAN        | 3.3  | 4.2 | 6.0 | 6.2 | 5.7 | --- | --- | 4.2 | 4.1 | 3.8 | --- |     |
| MAX         | 4.0  | 6.1 | 8.9 | 8.2 | 7.4 | --- | --- | 5.0 | 4.9 | 4.8 | --- |     |
| MIN         | 2.2  | 3.0 | 3.2 | 4.4 | 4.6 | --- | --- | 3.4 | 3.1 | 3.0 | --- |     |
| CAL YR 1985 | MEAN | 3.6 | MAX | 9.6 | MIN | .6  |     |     |     |     |     |     |

SOUTH FLORIDA  
KISSIMMEE RIVER BASIN

02266300 REEDY CREEK NEAR VINELAND, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | TUR-<br>BID-<br>ITY<br>(NTU)<br>(00076) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3)<br>(00900) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT FLD<br>MG/L AS<br>CACO3<br>(00902) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA)<br>(00915) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG)<br>(00925) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930) |
|--------------|------|--------------------------------------------------------------|-------------------------------------------|-------------------------------------------------|---------------------------------------------------------|-----------------------------------------|------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|
| NOV<br>04... | 0850 | --                                                           | --                                        | --                                              | 480                                                     | 0.60                                    | --                                             | 52                                                | 24                                                                           | 14                                                      | 4.2                                                             | 17                                                      |
| JAN<br>21... | 0819 | 96                                                           | 5.00                                      | 13.0                                            | 400                                                     | 0.60                                    | 6.0                                            | 48                                                | 30                                                                           | 13                                                      | 3.8                                                             | 8.1                                                     |
| MAR<br>04... | 0802 | 154                                                          | 6.10                                      | 14.5                                            | 280                                                     | 1.2                                     | 7.1                                            | 51                                                | 18                                                                           | 14                                                      | 4.0                                                             | 20                                                      |
| APR<br>28... | 1025 | 268                                                          | 7.10                                      | 19.5                                            | --                                                      | --                                      | 4.2                                            | --                                                | --                                                                           | --                                                      | --                                                              | --                                                      |
| MAY<br>05... | 0845 | 238                                                          | 6.30                                      | 22.0                                            | 200                                                     | 0.80                                    | 4.7                                            | 63                                                | 13                                                                           | 17                                                      | 5.1                                                             | 23                                                      |
| JUN<br>03... | 1310 | 337                                                          | 7.20                                      | 25.5                                            | --                                                      | --                                      | 4.4                                            | --                                                | --                                                                           | --                                                      | --                                                              | --                                                      |
| JUL<br>14... | 1155 | 239                                                          | 6.70                                      | 25.5                                            | --                                                      | --                                      | 3.5                                            | --                                                | --                                                                           | --                                                      | --                                                              | --                                                      |
| 29...        | 0755 | 171                                                          | 6.70                                      | 24.5                                            | 320                                                     | 0.50                                    | 3.8                                            | 44                                                | 13                                                                           | 12                                                      | 3.4                                                             | 17                                                      |
| AUG<br>11... | 0935 | 198                                                          | 6.40                                      | 25.0                                            | 480                                                     | 0.50                                    | 3.8                                            | 54                                                | 23                                                                           | 15                                                      | 4.0                                                             | 21                                                      |
| SEP<br>23... | 1220 | --                                                           | --                                        | --                                              | --                                                      | --                                      | 4.6                                            | --                                                | --                                                                           | --                                                      | --                                                              | --                                                      |

| DATE         | PERCENT<br>SODIUM<br>(00932) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO<br>(00931) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | NITRO-<br>GEN,<br>NITRATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00618) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) |
|--------------|------------------------------|----------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|
| NOV<br>04... | 39                           | 1                                                  | 4.3                                                            | 31                                                       | 28                                                             | --                                                                       | 0.020                                                           | --                                                                       | 0.620                                                           | --                                                                       | 0.020                                                           | --                                                                       |
| JAN<br>21... | 26                           | 0.5                                                | 1.9                                                            | 26                                                       | 16                                                             | --                                                                       | 0.020                                                           | --                                                                       | 0.590                                                           | --                                                                       | 0.030                                                           | --                                                                       |
| MAR<br>04... | 43                           | 1                                                  | 4.7                                                            | 20                                                       | 30                                                             | --                                                                       | 0.020                                                           | --                                                                       | 0.920                                                           | --                                                                       | 0.020                                                           | --                                                                       |
| APR<br>28... | --                           | --                                                 | --                                                             | --                                                       | --                                                             | 1.09                                                                     | 0.110                                                           | 0.110                                                                    | 1.30                                                            | 1.20                                                                     | 0.320                                                           | 0.320                                                                    |
| MAY<br>05... | 42                           | 1                                                  | 5.5                                                            | 24                                                       | 36                                                             | --                                                                       | 0.020                                                           | --                                                                       | 0.600                                                           | --                                                                       | 0.070                                                           | --                                                                       |
| JUN<br>03... | --                           | --                                                 | --                                                             | --                                                       | --                                                             | --                                                                       | 0.020                                                           | --                                                                       | 0.570                                                           | --                                                                       | 0.050                                                           | --                                                                       |
| 17...        | --                           | --                                                 | --                                                             | --                                                       | --                                                             | --                                                                       | 0.030                                                           | --                                                                       | 0.480                                                           | --                                                                       | 0.180                                                           | --                                                                       |
| JUN<br>17-19 | --                           | --                                                 | --                                                             | --                                                       | --                                                             | --                                                                       | 0.020                                                           | --                                                                       | 0.270                                                           | --                                                                       | 0.100                                                           | --                                                                       |
| JUN<br>19-20 | --                           | --                                                 | --                                                             | --                                                       | --                                                             | --                                                                       | 0.030                                                           | --                                                                       | 0.240                                                           | --                                                                       | 0.100                                                           | --                                                                       |
| 20...        | --                           | --                                                 | --                                                             | --                                                       | --                                                             | --                                                                       | 0.060                                                           | --                                                                       | 0.620                                                           | --                                                                       | 0.150                                                           | --                                                                       |
| JUL<br>29... | 43                           | 1                                                  | 3.3                                                            | 30                                                       | 26                                                             | --                                                                       | 0.020                                                           | --                                                                       | 0.390                                                           | --                                                                       | 0.090                                                           | --                                                                       |
| AUG<br>11... | 44                           | 1                                                  | 3.4                                                            | 44                                                       | 24                                                             | --                                                                       | 0.020                                                           | --                                                                       | 0.620                                                           | --                                                                       | 0.090                                                           | --                                                                       |
| SEP<br>23... | --                           | --                                                 | --                                                             | --                                                       | --                                                             | --                                                                       | 0.020                                                           | --                                                                       | 0.480                                                           | --                                                                       | 0.070                                                           | --                                                                       |

## KISSIMMEE RIVER BASIN

02266300 REEDY CREEK NEAR VINELAND, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE      | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00605) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS.<br>TOTAL<br>(MG/L<br>AS N)<br>(00623) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>TOTAL<br>(MG/L<br>AS P)<br>(00666) | PHOS-<br>PHORUS,<br>ORTHO,<br>DIS-<br>SOLVED<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) | PHOS-<br>PHORUS,<br>ORTHO,<br>DIS-<br>SOLVED<br>TOTAL<br>(MG/L<br>AS P)<br>(00671) | ALUM-<br>INUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AL)<br>(01105) | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS)<br>(01002) | BERYL-<br>LIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BE)<br>(01012) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD)<br>(01027) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR)<br>(01034) |
|-----------|-----------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------|
| NOV 04... | 1.5                                                             | 1.5                                                                           | --                                                                                    | 0.390                                                  | --                                                                       | 0.350                                                                              | --                                                                                 | 330                                                                       | <1                                             | <10                                                                        | 1                                                                  | 10                                                                        |
| JAN 21... | 1.6                                                             | 1.6                                                                           | --                                                                                    | 0.240                                                  | --                                                                       | 0.210                                                                              | --                                                                                 | --                                                                        | --                                             | --                                                                         | --                                                                 | --                                                                        |
| MAR 04... | 1.2                                                             | 1.2                                                                           | --                                                                                    | 0.400                                                  | --                                                                       | 0.400                                                                              | --                                                                                 | 280                                                                       | <1                                             | <10                                                                        | <1                                                                 | <10                                                                       |
| APR 28... | 0.98                                                            | 1.3                                                                           | 1.2                                                                                   | 0.700                                                  | 0.680                                                                    | 0.640                                                                              | 0.630                                                                              | --                                                                        | --                                             | --                                                                         | --                                                                 | --                                                                        |
| MAY 05... | 0.96                                                            | 1.0                                                                           | --                                                                                    | 0.370                                                  | --                                                                       | 0.330                                                                              | --                                                                                 | 170                                                                       | <1                                             | <10                                                                        | <1                                                                 | <10                                                                       |
| JUN 03... | 0.95                                                            | 1.0                                                                           | --                                                                                    | 0.480                                                  | --                                                                       | 0.380                                                                              | --                                                                                 | --                                                                        | --                                             | --                                                                         | --                                                                 | --                                                                        |
| JUN 17... | 1.3                                                             | 1.5                                                                           | --                                                                                    | 0.400                                                  | --                                                                       | 0.330                                                                              | --                                                                                 | --                                                                        | --                                             | --                                                                         | --                                                                 | --                                                                        |
| JUN 17-19 | 1.5                                                             | 1.6                                                                           | --                                                                                    | 0.250                                                  | --                                                                       | 0.220                                                                              | --                                                                                 | --                                                                        | --                                             | --                                                                         | --                                                                 | --                                                                        |
| JUN 19-20 | 1.5                                                             | 1.6                                                                           | --                                                                                    | 0.180                                                  | --                                                                       | 0.140                                                                              | --                                                                                 | --                                                                        | --                                             | --                                                                         | --                                                                 | --                                                                        |
| JUN 20... | 1.3                                                             | 1.5                                                                           | --                                                                                    | 0.290                                                  | --                                                                       | 0.240                                                                              | --                                                                                 | --                                                                        | --                                             | --                                                                         | --                                                                 | --                                                                        |
| JUL 29... | 1.2                                                             | 1.3                                                                           | --                                                                                    | 0.280                                                  | --                                                                       | 0.250                                                                              | --                                                                                 | --                                                                        | --                                             | --                                                                         | --                                                                 | --                                                                        |
| AUG 11... | 1.6                                                             | 1.7                                                                           | --                                                                                    | 0.360                                                  | --                                                                       | 0.340                                                                              | --                                                                                 | 370                                                                       | 1                                              | <10                                                                        | <1                                                                 | <10                                                                       |
| SEP 23... | 1.3                                                             | 1.4                                                                           | --                                                                                    | 0.260                                                  | --                                                                       | 0.240                                                                              | --                                                                                 | --                                                                        | --                                             | --                                                                         | --                                                                 | --                                                                        |

| DATE      | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU)<br>(01042) | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE)<br>(01045) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB)<br>(01051) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN)<br>(01055) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG)<br>(71900) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI)<br>(01067) | SELE-<br>NIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS SE)<br>(01147) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN)<br>(01092) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | PCB,<br>TOTAL<br>(UG/L)<br>(39516) | PCB,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39519) | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L)<br>(39250) |
|-----------|--------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------|------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------|
| NOV 04... | 9                                                                  | 660                                                              | 2                                                                | 20                                                                         | --                                                                 | 2                                                                  | <1                                                                        | 30                                                               | --                                                       | --                                 | --                                                                  | --                                                                       |
| JAN 21... | --                                                                 | --                                                               | --                                                               | --                                                                         | --                                                                 | --                                                                 | --                                                                        | --                                                               | 62                                                       | --                                 | --                                                                  | --                                                                       |
| MAR 04... | 2                                                                  | 350                                                              | <1                                                               | 30                                                                         | <0.10                                                              | 3                                                                  | <1                                                                        | 60                                                               | 40                                                       | --                                 | --                                                                  | --                                                                       |
| MAY 05... | 7                                                                  | 230                                                              | <1                                                               | 10                                                                         | 0.40                                                               | <1                                                                 | <1                                                                        | 30                                                               | --                                                       | --                                 | --                                                                  | --                                                                       |
| AUG 11... | 30                                                                 | 360                                                              | <5                                                               | 20                                                                         | 1.5                                                                | 6                                                                  | <1                                                                        | <10                                                              | 55                                                       | <0.1                               | <1                                                                  | <0.10                                                                    |

| DATE      | PCN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39251) | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39330) | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39333) | CHLOR-<br>DANE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39350) | CHLOR-<br>DANE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39351) | DDD,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39360) | DDD,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39363) | DDE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39365) | DDE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39368) | DDT,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39370) | DDT,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39373) | DI-<br>AZINON,<br>TOTAL<br>(UG/L)<br>(39570) |
|-----------|---------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------|
| AUG 11... | <1.0                                                                | <0.010                                                                | <0.1                                                                   | <0.1                                                                          | <1.0                                                                           | <0.010                                                             | 0.4                                                                 | <0.010                                                             | 1.0                                                                 | <0.010                                                             | <0.1                                                                | 0.01                                         |

| DATE      | DI-<br>AZINON,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39571) | DI-<br>ELDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39380) | DI-<br>ELDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39383) | ENDO-<br>SULFAN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39388) | ENDO-<br>SULFAN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39389) | ENDO-<br>SULFAN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39390) | ENDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39393) | ETHION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39398) | ETHION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39399) | HEPTA-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39410) | HEPTA-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39413) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOTAL<br>(UG/L)<br>(39420) |
|-----------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------|
| AUG 11... | <0.1                                                                          | <0.010                                                                       | 0.1                                                                           | <0.010                                                                         | <0.1                                                                            | <0.010                                                                         | <0.1                                                                   | <0.01                                                                 | 0.5                                                                    | <0.010                                                                         | <0.1                                                                            | <0.010                                                   |

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02266300 REEDY CREEK NEAR VINELAND, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39423) | MIREX,<br>TOTAL<br>(UG/L)<br>(39755)          | LINDANE<br>TOTAL<br>(UG/L)<br>(39340)                                          | LINDANE<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39343) | MALA-<br>THION,<br>TOTAL<br>(UG/L)<br>(39530) | MALA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39531) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L)<br>(39480)                        | METH-<br>OXY-<br>CHLOR,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39481) | GUTHION<br>TOTAL<br>(UG/L)<br>(39580)                                          | METHYL<br>PARA-<br>THION,<br>TOTAL<br>(UG/L)<br>(39600) | METHYL<br>PARA-<br>THION,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39601) | METHYL<br>TRI-<br>THION,<br>TOTAL<br>(UG/L)<br>(39790)                |
|--------------|--------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| AUG<br>11... | <0.1                                                                           | <0.01                                         | <0.010                                                                         | <0.1                                                                   | <0.01                                         | <0.1                                                                           | <0.01                                                                        | <0.1                                                                        | <0.10                                                                          | <0.01                                                   | <0.1                                                                          | <0.01                                                                 |
| DATE         | METHYL<br>TRI-<br>THION,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39791)   | PARA-<br>THION,<br>TOTAL<br>(UG/L)<br>(39540) | PARA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39541) | DI-<br>SYSTON<br>TOTAL<br>(UG/L)<br>(39011)                            | PHORATE<br>OTAL<br>(UG/L)<br>(39023)          | PER-<br>THANE<br>TOTAL<br>(UG/L)<br>(39034)                                    | PER-<br>THANE<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(81886) | TOX-<br>APHENE,<br>TOTAL<br>(UG/L)<br>(39400)                               | TOXA-<br>PHENE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39403) | TOTAL<br>TRI-<br>THION<br>(UG/L)<br>(39786)             | TRI-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39787) | MIREX,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39758) |
| AUG<br>11... | <0.1                                                                           | <0.01                                         | <0.1                                                                           | <0.01                                                                  | <0.01                                         | <0.1                                                                           | <1.00                                                                        | <1                                                                          | <10                                                                            | <0.01                                                   | <0.1                                                                          | 0.5                                                                   |



## KISSIMMEE RIVER BASIN

02266480 DAVENPORT CREEK NEAR LOUGHMAN, FL

LOCATION.--Lat 28°16'15", long 81°35'28", in NW¼ sec.35, T.25 S., R.26 E., Osceola County, Hydrologic Unit 03090101, at downstream side of culverts on State Highway 545, 2.0 mi upstream from mouth, and 2.5 mi northwest of Loughman.

DRAINAGE AREA.--23 mi<sup>2</sup>, approximately.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 80.49 ft above National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

REMARKS.--Estimated daily discharges: Apr. 10-14. Records good.

AVERAGE DISCHARGE.--17 years, 10.7 ft<sup>3</sup>/s, 6.32 in/yr, 7,750 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 498 ft<sup>3</sup>/s, Sept. 22, 1969, gage height, 9.76 ft; minimum, 0.32 ft<sup>3</sup>/s, May 19, 1981; minimum gage height, 4.02 ft, May 7, 8, 1980.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 80 ft<sup>3</sup>/s and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) | Gage height<br>(ft) |
|--------|------|-----------------------------------|---------------------|--------|------|-----------------------------------|---------------------|
| Oct. 5 | 2100 | *94                               | *7.57               | Aug. 6 | 0700 | 87                                | 7.49                |

Minimum discharge, 1.1 ft<sup>3</sup>/s, June 1, gage height, 4.36 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT   | NOV     | DEC   | JAN  | FEB   | MAR   | APR  | MAY  | JUN   | JUL   | AUG    | SEP   |       |      |
|-------------|-------|---------|-------|------|-------|-------|------|------|-------|-------|--------|-------|-------|------|
| 1           | 12    | 5.8     | 3.2   | 20   | 10    | 5.8   | 5.0  | 1.9  | 1.2   | 5.4   | 8.2    | 45    |       |      |
| 2           | 12    | 7.4     | 3.3   | 31   | 9.5   | 6.7   | 4.4  | 1.8  | 1.3   | 4.5   | 8.9    | 34    |       |      |
| 3           | 15    | 6.1     | 4.2   | 30   | 10    | 6.2   | 4.4  | 1.8  | 1.7   | 4.0   | 32     | 23    |       |      |
| 4           | 67    | 5.0     | 3.8   | 24   | 9.8   | 5.9   | 4.0  | 1.7  | 1.7   | 5.1   | 50     | 18    |       |      |
| 5           | 88    | 3.9     | 7.4   | 21   | 9.4   | 9.4   | 3.6  | 1.7  | 1.5   | 5.6   | 77     | 16    |       |      |
| 6           | 87    | 3.6     | 22    | 20   | 9.1   | 7.6   | 3.5  | 1.7  | 1.5   | 6.7   | 84     | 17    |       |      |
| 7           | 73    | 3.7     | 24    | 20   | 8.9   | 5.7   | 3.0  | 1.7  | 1.5   | 6.6   | 70     | 23    |       |      |
| 8           | 57    | 3.9     | 18    | 19   | 12    | 5.6   | 2.9  | 1.7  | 1.5   | 5.6   | 55     | 32    |       |      |
| 9           | 42    | 4.0     | 13    | 18   | 17    | 5.1   | 2.9  | 1.6  | 1.5   | 4.8   | 39     | 42    |       |      |
| 10          | 30    | 4.1     | 10    | 36   | 19    | 4.2   | 3.0  | 1.6  | 1.4   | 3.9   | 25     | 47    |       |      |
| 11          | 24    | 4.1     | 8.1   | 63   | 20    | 4.5   | 3.2  | 1.6  | 1.7   | 3.0   | 18     | 44    |       |      |
| 12          | 21    | 4.1     | 5.8   | 66   | 26    | 4.5   | 3.5  | 1.6  | 2.3   | 3.6   | 15     | 36    |       |      |
| 13          | 18    | 4.0     | 6.7   | 59   | 23    | 4.3   | 3.4  | 1.6  | 3.1   | 5.2   | 17     | 28    |       |      |
| 14          | 14    | 4.0     | 9.9   | 49   | 19    | 5.6   | 3.1  | 1.6  | 3.1   | 5.4   | 26     | 21    |       |      |
| 15          | 13    | 3.9     | 12    | 39   | 15    | 12    | 3.0  | 1.6  | 2.5   | 4.3   | 37     | 20    |       |      |
| 16          | 13    | 3.9     | 9.5   | 30   | 13    | 34    | 2.8  | 1.7  | 2.0   | 3.6   | 35     | 18    |       |      |
| 17          | 10    | 3.9     | 6.6   | 27   | 15    | 44    | 2.7  | 1.6  | 2.5   | 4.9   | 32     | 16    |       |      |
| 18          | 10    | 3.7     | 6.7   | 25   | 14    | 38    | 2.7  | 1.6  | 2.4   | 8.7   | 27     | 11    |       |      |
| 19          | 11    | 4.0     | 6.5   | 23   | 14    | 28    | 2.7  | 1.5  | 12    | 19    | 21     | 10    |       |      |
| 20          | 9.9   | 4.1     | 6.1   | 22   | 15    | 19    | 2.6  | 1.7  | 24    | 30    | 21     | 9.7   |       |      |
| 21          | 9.2   | 4.0     | 5.7   | 20   | 13    | 16    | 2.6  | 1.9  | 14    | 25    | 26     | 8.6   |       |      |
| 22          | 8.5   | 4.1     | 5.3   | 17   | 11    | 14    | 2.5  | 1.7  | 14    | 16    | 34     | 7.4   |       |      |
| 23          | 8.0   | 4.1     | 4.7   | 16   | 9.7   | 12    | 2.5  | 1.6  | 13    | 13    | 40     | 6.4   |       |      |
| 24          | 7.2   | 4.1     | 4.2   | 16   | 7.4   | 9.6   | 2.4  | 1.5  | 10    | 12    | 34     | 6.0   |       |      |
| 25          | 6.5   | 4.2     | 5.9   | 14   | 7.8   | 8.9   | 2.3  | 1.5  | 12    | 9.6   | 24     | 5.3   |       |      |
| 26          | 6.2   | 3.9     | 7.5   | 15   | 7.6   | 8.3   | 2.3  | 1.4  | 23    | 7.2   | 18     | 4.8   |       |      |
| 27          | 6.9   | 3.7     | 7.2   | 15   | 7.1   | 7.4   | 2.2  | 1.4  | 17    | 8.0   | 15     | 4.4   |       |      |
| 28          | 6.4   | 3.5     | 6.6   | 15   | 6.3   | 6.5   | 2.2  | 1.3  | 9.2   | 14    | 21     | 4.0   |       |      |
| 29          | 3.8   | 2.7     | 6.2   | 14   | ---   | 6.4   | 2.0  | 1.3  | 7.5   | 16    | 42     | 3.7   |       |      |
| 30          | 5.0   | 3.1     | 5.6   | 14   | ---   | 6.1   | 2.0  | 1.3  | 7.1   | 14    | 55     | 3.4   |       |      |
| 31          | 5.1   | ---     | 5.6   | 13   | ---   | 5.7   | ---  | 1.2  | ---   | 12    | 53     | ---   |       |      |
| TOTAL       | 699.7 | 124.6   | 251.3 | 811  | 358.6 | 357.0 | 89.4 | 49.4 | 197.2 | 286.7 | 1060.1 | 564.7 |       |      |
| MEAN        | 22.6  | 4.15    | 8.11  | 26.2 | 12.8  | 11.5  | 2.98 | 1.59 | 6.57  | 9.25  | 34.2   | 18.8  |       |      |
| MAX         | 88    | 7.4     | 24    | 66   | 26    | 44    | 5.0  | 1.9  | 24    | 30    | 84     | 47    |       |      |
| MIN         | 3.8   | 2.7     | 3.2   | 13   | 6.3   | 4.2   | 2.0  | 1.2  | 1.2   | 3.0   | 8.2    | 3.4   |       |      |
| CFSM        | .98   | .18     | .35   | 1.14 | .56   | .50   | .13  | .07  | .29   | .40   | 1.49   | .82   |       |      |
| IN.         | 1.13  | .20     | .41   | 1.31 | .58   | .58   | .14  | .08  | .32   | .46   | 1.71   | .91   |       |      |
| AC-FT       | 1390  | 247     | 498   | 1610 | 711   | 708   | 177  | 98   | 391   | 569   | 2100   | 1120  |       |      |
| CAL YR 1985 | TOTAL | 3150.18 | MEAN  | 8.63 | MAX   | 88    | MIN  | .89  | CFSM  | .38   | IN.    | 5.10  | AC-FT | 6250 |
| WTR YR 1986 | TOTAL | 4849.7  | MEAN  | 13.3 | MAX   | 88    | MIN  | 1.2  | CFSM  | .58   | IN.    | 7.84  | AC-FT | 9620 |

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02266480 DAVENPORT CREEK NEAR LOUGHMAN, FL--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965, 1968 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | TUR-<br>BID-<br>ITY<br>(NTU)<br>(00076) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3)<br>(00900) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT FLD<br>MG/L AS<br>CACO3<br>(00902) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA)<br>(00915) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG)<br>(00925) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930) |
|--------------|------|--------------------------------------------------------------|-------------------------------------------|-------------------------------------------------|---------------------------------------------------------|-----------------------------------------|------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|
| NOV<br>05... | 0957 | --                                                           | --                                        | --                                              | 320                                                     | 0.70                                    | --                                             | 70                                                | 40                                                                           | 18                                                      | 6.0                                                             | 5.0                                                     |
| MAR<br>04... | 0905 | 90                                                           | 6.00                                      | 14.0                                            | 320                                                     | 0.70                                    | 8.4                                            | 53                                                | 29                                                                           | 14                                                      | 4.5                                                             | 5.1                                                     |
| APR<br>28... | 1005 | 168                                                          | 7.30                                      | 18.5                                            | --                                                      | --                                      | 7.1                                            | --                                                | --                                                                           | --                                                      | --                                                              | --                                                      |
| MAY<br>05... | 1000 | 163                                                          | 6.70                                      | 21.0                                            | 50                                                      | 0.20                                    | 6.4                                            | 74                                                | 32                                                                           | 18                                                      | 7.1                                                             | 3.5                                                     |
| JUN<br>04... | 1100 | 182                                                          | 7.00                                      | 23.5                                            | --                                                      | --                                      | 6.5                                            | --                                                | --                                                                           | --                                                      | --                                                              | --                                                      |
| JUL<br>14... | 1240 | --                                                           | 6.90                                      | 24.5                                            | --                                                      | --                                      | 6.2                                            | --                                                | --                                                                           | --                                                      | --                                                              | --                                                      |
| 30...        | 1145 | 133                                                          | --                                        | 25.0                                            | --                                                      | --                                      | 5.7                                            | --                                                | --                                                                           | --                                                      | --                                                              | --                                                      |
| AUG<br>11... | 1045 | 115                                                          | 6.10                                      | 24.5                                            | 800                                                     | 0.30                                    | 4.8                                            | 54                                                | 31                                                                           | 15                                                      | 4.0                                                             | 5.0                                                     |
| SEP<br>24... | 1010 | --                                                           | --                                        | --                                              | --                                                      | --                                      | 6.0                                            | --                                                | --                                                                           | --                                                      | --                                                              | --                                                      |

| DATE         | PERCENT<br>SODIUM<br>(00932) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO<br>(00931) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | NITRO-<br>GEN,<br>NITRATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00618) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) |
|--------------|------------------------------|----------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|
| NOV<br>05... | 13                           | 0.3                                                | 2.1                                                            | 24                                                       | 13                                                             | --                                                                       | 0.010                                                           | --                                                                       | 1.90                                                            | --                                                                       | 0.010                                                           | --                                                                       |
| MAR<br>04... | 17                           | 0.3                                                | 1.0                                                            | 17                                                       | 11                                                             | --                                                                       | 0.020                                                           | --                                                                       | 1.00                                                            | --                                                                       | 0.010                                                           | --                                                                       |
| APR<br>28... | --                           | --                                                 | --                                                             | --                                                       | --                                                             | 3.39                                                                     | 0.010                                                           | 0.010                                                                    | 3.40                                                            | 3.40                                                                     | 0.030                                                           | 0.040                                                                    |
| MAY<br>05... | 9                            | 0.2                                                | 3.1                                                            | 20                                                       | 11                                                             | --                                                                       | 0.010                                                           | --                                                                       | 3.55                                                            | --                                                                       | 0.030                                                           | --                                                                       |
| JUN<br>04... | --                           | --                                                 | --                                                             | --                                                       | --                                                             | --                                                                       | 0.010                                                           | --                                                                       | 2.60                                                            | --                                                                       | 0.020                                                           | --                                                                       |
| JUL<br>14... | --                           | --                                                 | --                                                             | --                                                       | --                                                             | --                                                                       | --                                                              | --                                                                       | --                                                              | --                                                                       | --                                                              | --                                                                       |
| 30...        | --                           | --                                                 | --                                                             | --                                                       | --                                                             | --                                                                       | 0.010                                                           | --                                                                       | 0.420                                                           | --                                                                       | 0.020                                                           | --                                                                       |
| AUG<br>11... | 16                           | 0.3                                                | 1.5                                                            | 34                                                       | 13                                                             | --                                                                       | 0.020                                                           | --                                                                       | 0.510                                                           | --                                                                       | 0.020                                                           | --                                                                       |
| SEP<br>24... | --                           | --                                                 | --                                                             | --                                                       | --                                                             | --                                                                       | 0.020                                                           | --                                                                       | 1.20                                                            | --                                                                       | 0.040                                                           | --                                                                       |

| DATE         | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00605) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>DIS-<br>TOTAL<br>(MG/L<br>AS N)<br>(00623) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00666) | PHOS-<br>PHORUS,<br>ORTHOPHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) | PHOS-<br>PHORUS,<br>ORTHOPHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | ALUM-<br>INUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AL)<br>(01105) | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS)<br>(01002) | BERYL-<br>LIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BE)<br>(01012) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD)<br>(01027) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR)<br>(01034) |
|--------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------|
| NOV<br>05... | 1.2                                                             | 1.2                                                                            | --                                                                                     | 0.070                                                  | --                                                              | 0.050                                                                           | --                                                                                       | --                                                                        | --                                             | --                                                                         | --                                                                 | --                                                                        |
| MAR<br>04... | 1.2                                                             | 1.2                                                                            | --                                                                                     | 0.030                                                  | --                                                              | 0.030                                                                           | --                                                                                       | --                                                                        | --                                             | --                                                                         | --                                                                 | --                                                                        |
| APR<br>28... | 0.67                                                            | 0.70                                                                           | 0.73                                                                                   | 0.060                                                  | 0.050                                                           | 0.030                                                                           | 0.030                                                                                    | --                                                                        | --                                             | --                                                                         | --                                                                 | --                                                                        |
| MAY<br>05... | 0.52                                                            | 0.55                                                                           | --                                                                                     | 0.050                                                  | --                                                              | 0.030                                                                           | --                                                                                       | 70                                                                        | <1                                             | <10                                                                        | <1                                                                 | <10                                                                       |
| JUN<br>04... | 0.41                                                            | 0.43                                                                           | --                                                                                     | 0.050                                                  | --                                                              | 0.040                                                                           | --                                                                                       | --                                                                        | --                                             | --                                                                         | --                                                                 | --                                                                        |
| 30...        | 2.0                                                             | 2.0                                                                            | --                                                                                     | 0.040                                                  | --                                                              | 0.040                                                                           | --                                                                                       | --                                                                        | --                                             | --                                                                         | --                                                                 | --                                                                        |
| AUG<br>11... | 2.0                                                             | 2.0                                                                            | --                                                                                     | 0.050                                                  | --                                                              | 0.040                                                                           | --                                                                                       | 240                                                                       | <1                                             | <10                                                                        | <1                                                                 | <10                                                                       |
| SEP<br>24... | 1.6                                                             | 1.6                                                                            | --                                                                                     | 0.050                                                  | --                                                              | 0.040                                                                           | --                                                                                       | --                                                                        | --                                             | --                                                                         | --                                                                 | --                                                                        |

## SOUTH FLORIDA

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## KISSIMMEE RIVER BASIN

02266480 DAVENPORT CREEK NEAR LOUGHMAN, FL--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE          | COPPER,<br>TOTAL<br>RECOVERABLE<br>(UG/L<br>AS CU)<br>(01042)       | IRON,<br>TOTAL<br>RECOVERABLE<br>(UG/L<br>AS FE)<br>(01045) | LEAD,<br>TOTAL<br>RECOVERABLE<br>(UG/L<br>AS PB)<br>(01051)     | MANGANESE,<br>TOTAL<br>RECOVERABLE<br>(UG/L<br>AS MN)<br>(01055) | MERCURY<br>TOTAL<br>RECOVERABLE<br>(UG/L<br>AS HG)<br>(71900)    | NICKEL,<br>TOTAL<br>RECOVERABLE<br>(UG/L<br>AS NI)<br>(01067)   | SELENIUM,<br>TOTAL<br>RECOVERABLE<br>(UG/L<br>AS SE)<br>(01147)   | ZINC,<br>TOTAL<br>RECOVERABLE<br>(UG/L<br>AS ZN)<br>(01092)        | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680)        | PCB,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/L)<br>(39516)        | PCB,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/KG)<br>(39519)              | NAPHTHALENES,<br>POLYCHLOR.<br>TOTAL<br>(UG/L)<br>(39250)   |
|---------------|---------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------|
| MAR 04...     | --                                                                  | --                                                          | --                                                              | --                                                               | --                                                               | --                                                              | --                                                                | --                                                                 | 45                                                              | --                                                              | --                                                                     | --                                                          |
| APR MAY 05... | 6                                                                   | 50                                                          | <1                                                              | <10                                                              | <0.10                                                            | <1                                                              | <1                                                                | <10                                                                | --                                                              | --                                                              | --                                                                     | --                                                          |
| AUG 11...     | 5                                                                   | 550                                                         | 6                                                               | 10                                                               | 3.3                                                              | 8                                                               | <1                                                                | 20                                                                 | 75                                                              | <0.1                                                            | <1                                                                     | <0.10                                                       |
| DATE          | PCN,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/KG)<br>(39251)           | ALDRIN,<br>TOTAL<br>(UG/L)<br>(39330)                       | ALDRIN,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/KG)<br>(39333)    | CHLORDANE,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/L)<br>(39350)   | CHLORDANE,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/KG)<br>(39351)  | DDD,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/L)<br>(39360)        | DDD,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/KG)<br>(39363)         | DDE,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/L)<br>(39365)           | DDE,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/KG)<br>(39368)       | DDT,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/L)<br>(39370)        | DDT,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/KG)<br>(39373)              | DI-AZINON,<br>TOTAL<br>(UG/L)<br>(39570)                    |
| AUG 11...     | <1.0                                                                | <0.010                                                      | <0.1                                                            | <0.1                                                             | <1.0                                                             | <0.010                                                          | <0.1                                                              | <0.010                                                             | 0.2                                                             | <0.010                                                          | <0.1                                                                   | <0.01                                                       |
| DATE          | DI-AZINON,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/KG)<br>(39571)     | DI-ELDRIN,<br>TOTAL<br>(UG/L)<br>(39380)                    | DI-ELDRIN,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/KG)<br>(39383) | ENDOSULFAN,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/L)<br>(39388)  | ENDOSULFAN,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/KG)<br>(39389) | ENDRIN,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/L)<br>(39390)     | ENDRIN,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/KG)<br>(39393)      | ETHION,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/L)<br>(39398)        | ETHION,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/KG)<br>(39399)    | HEPTACHLOR,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/L)<br>(39410) | HEPTACHLOR,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/KG)<br>(39413)       | HEPTACHLOR EPOXIDE<br>TOTAL<br>(UG/L)<br>(39420)            |
| AUG 11...     | <0.1                                                                | <0.010                                                      | <0.1                                                            | <0.010                                                           | <0.1                                                             | <0.010                                                          | <0.1                                                              | <0.01                                                              | 1.8                                                             | <0.010                                                          | <0.1                                                                   | <0.010                                                      |
| DATE          | HEPTACHLOR EPOXIDE<br>TOT. IN BOTTOM MATERIAL<br>(UG/KG)<br>(39423) | MIREX,<br>TOTAL<br>(UG/L)<br>(39755)                        | LINDANE,<br>TOTAL<br>(UG/L)<br>(39340)                          | LINDANE,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/KG)<br>(39343)    | MALATHION,<br>TOTAL<br>(UG/L)<br>(39530)                         | MALATHION,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/KG)<br>(39531) | METHOXYCHLOR,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/L)<br>(39480) | METHOXYCHLOR,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/KG)<br>(39481) | GUTHION,<br>TOTAL<br>(UG/L)<br>(39580)                          | METHYL PARATHION,<br>TOTAL<br>(UG/L)<br>(39600)                 | METHYL PARATHION,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/KG)<br>(39601) | METHYL TRITHION,<br>TOTAL<br>(UG/L)<br>(39790)              |
| AUG 11...     | <0.1                                                                | <0.01                                                       | <0.010                                                          | <0.1                                                             | <0.01                                                            | <0.1                                                            | <0.01                                                             | <0.1                                                               | <0.10                                                           | <0.01                                                           | <0.1                                                                   | <0.01                                                       |
| DATE          | METHYL TRITHION,<br>TOT. IN BOTTOM MATERIAL<br>(UG/KG)<br>(39791)   | PARATHION,<br>TOTAL<br>(UG/L)<br>(39540)                    | PARATHION,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/KG)<br>(39541) | DI-SYSTON,<br>TOTAL<br>(UG/L)<br>(39011)                         | PHORATE OTAL<br>(UG/L)<br>(39023)                                | PERTHANE,<br>TOTAL<br>(UG/L)<br>(39034)                         | PERTHANE,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/KG)<br>(81886)    | TOXAPHENE,<br>TOTAL<br>(UG/L)<br>(39400)                           | TOXAPHENE,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/KG)<br>(39403) | TOTAL TRI-THION<br>(UG/L)<br>(39786)                            | TRI-THION,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/KG)<br>(39787)        | MIREX,<br>TOTAL<br>IN BOTTOM MATERIAL<br>(UG/KG)<br>(39758) |
| AUG 11...     | <0.1                                                                | <0.01                                                       | <0.1                                                            | <0.01                                                            | <0.01                                                            | <0.1                                                            | <1.00                                                             | <1                                                                 | <10                                                             | <0.01                                                           | 0.3                                                                    | <0.1                                                        |

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

## 02266500 REEDY CREEK NEAR LOUGHMAN, FL

LOCATION.--Lat 28°15'48", long 81°32'12", in SW¼ sec.32, T.25 S., R.28 E., Osceola County, Hydrologic Unit 03090101, on left bank 20 ft upstream from bridge on U.S. Highways 17 and 92, 1.0 mi downstream from Reedy Creek Improvement District Structure 40. 2.5 mi northeast of Loughman, 3 mi downstream from Davenport Creek, and 21 mi upstream from mouth.

DRAINAGE AREA.--110 mi<sup>2</sup>, approximately, includes an indeterminate portion of the Reedy Creek Swamp watershed.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to September 1959, July 1968 to current year.

REVISED RECORDS.--WRD FL 1968: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 64.49 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 20, 1940, nonrecording gage at same site and datum.

REMARKS.--Records good. Natural flow of stream affected by several canals, levees, and control structures which divert an undetermined amount of water into Reedy Creek above station or into the Shingle Creek basin. Since May 1970, flow regulated by Reedy Creek Improvement District Structure 40.

AVERAGE DISCHARGE.--38 years (water years 1940-59, 1969-86), 67.0 ft<sup>3</sup>/s, 48,540 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 790 ft<sup>3</sup>/s, Sept. 24, 1969, gage height, 4.25 ft, from rating curve extended above 400 ft<sup>3</sup>/s; no flow for many days in some years; minimum gage height, -0.25 ft, June 1, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 266 ft<sup>3</sup>/s, Oct. 7,8,9, gage height, 3.29 ft; no flow for many days; minimum gage height, 0.34 ft, June 1,2,7,8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT   | NOV      | DEC    | JAN  | FEB  | MAR  | APR    | MAY | JUN   | JUL    | AUG   | SEP  |
|-------------|-------|----------|--------|------|------|------|--------|-----|-------|--------|-------|------|
| 1           | 93    | 61       | 4.2    | 51   | 114  | 70   | 43     | .00 | .00   | 3.2    | 26    | 66   |
| 2           | 87    | 57       | 4.0    | 51   | 112  | 64   | 36     | .00 | .00   | 2.4    | 26    | 62   |
| 3           | 94    | 54       | 3.8    | 51   | 110  | 59   | 22     | .00 | .00   | 2.0    | 27    | 60   |
| 4           | 145   | 52       | 11     | 51   | 108  | 55   | 16     | .00 | .00   | 1.9    | 30    | 59   |
| 5           | 180   | 49       | 31     | 53   | 105  | 54   | 13     | .00 | .00   | 2.6    | 33    | 60   |
| 6           | 240   | 45       | 39     | 54   | 102  | 52   | 9.8    | .00 | .00   | 2.9    | 44    | 61   |
| 7           | 263   | 43       | 43     | 59   | 99   | 49   | 7.7    | .00 | .00   | 2.9    | 54    | 62   |
| 8           | 266   | 38       | 45     | 78   | 103  | 46   | 6.0    | .00 | .00   | 2.5    | 66    | 64   |
| 9           | 259   | 35       | 46     | 82   | 104  | 44   | 4.9    | .00 | .00   | 2.2    | 73    | 72   |
| 10          | 248   | 34       | 46     | 113  | 99   | 43   | 4.0    | .00 | .00   | 1.8    | 72    | 82   |
| 11          | 227   | 34       | 46     | 130  | 102  | 42   | 3.3    | .00 | .00   | 1.3    | 72    | 100  |
| 12          | 206   | 31       | 45     | 159  | 106  | 42   | 2.8    | .00 | .00   | .96    | 81    | 108  |
| 13          | 183   | 21       | 45     | 207  | 124  | 41   | 3.1    | .00 | .00   | 1.4    | 67    | 109  |
| 14          | 163   | 16       | 48     | 237  | 129  | 42   | 2.7    | .00 | .00   | 1.3    | 60    | 107  |
| 15          | 144   | 13       | 46     | 247  | 128  | 46   | 2.1    | .00 | .00   | .90    | 60    | 98   |
| 16          | 128   | 11       | 46     | 247  | 124  | 61   | 1.7    | .00 | .00   | .83    | 65    | 75   |
| 17          | 131   | 9.3      | 46     | 241  | 120  | 69   | 1.1    | .00 | .00   | .50    | 68    | 67   |
| 18          | 133   | 8.0      | 45     | 226  | 120  | 76   | .75    | .00 | .00   | .14    | 64    | 65   |
| 19          | 133   | 7.3      | 45     | 210  | 115  | 81   | .60    | .00 | .76   | .00    | 61    | 64   |
| 20          | 125   | 7.1      | 45     | 192  | 112  | 83   | .50    | .00 | .72   | .00    | 60    | 61   |
| 21          | 118   | 6.4      | 44     | 175  | 107  | 84   | .43    | .00 | .00   | 5.9    | 62    | 59   |
| 22          | 111   | 5.8      | 44     | 160  | 102  | 82   | .26    | .00 | .00   | 18     | 64    | 59   |
| 23          | 104   | 5.4      | 44     | 149  | 98   | 79   | .06    | .00 | .00   | 22     | 61    | 71   |
| 24          | 98    | 5.0      | 44     | 142  | 92   | 75   | .00    | .00 | .00   | 23     | 60    | 72   |
| 25          | 91    | 4.9      | 44     | 138  | 87   | 71   | .00    | .00 | 2.3   | 24     | 58    | 70   |
| 26          | 85    | 4.7      | 44     | 133  | 83   | 65   | .00    | .00 | 6.2   | 25     | 57    | 67   |
| 27          | 80    | 4.4      | 44     | 129  | 79   | 63   | .00    | .00 | 6.1   | 25     | 57    | 62   |
| 28          | 77    | 4.3      | 44     | 124  | 74   | 58   | .00    | .00 | 5.1   | 26     | 59    | 59   |
| 29          | 73    | 4.3      | 44     | 121  | ---  | 50   | .00    | .00 | 4.2   | 26     | 60    | 56   |
| 30          | 68    | 4.3      | 44     | 118  | ---  | 46   | .00    | .00 | 4.0   | 26     | 60    | 53   |
| 31          | 65    | ---      | 44     | 115  | ---  | 44   | ---    | .00 | ---   | 26     | 63    | ---  |
| TOTAL       | 4418  | 675.2    | 1214.0 | 4243 | 2958 | 1836 | 181.80 | .00 | 29.38 | 278.63 | 1770  | 2130 |
| MEAN        | 143   | 22.5     | 39.2   | 137  | 106  | 59.2 | 6.06   | .00 | .98   | 8.99   | 57.1  | 71.0 |
| MAX         | 266   | 61       | 48     | 247  | 129  | 84   | 43     | .00 | 6.2   | 26     | 81    | 109  |
| MIN         | 65    | 4.3      | 3.8    | 51   | 74   | 41   | .00    | .00 | .00   | .00    | 26    | 53   |
| AC-FT       | 8760  | 1340     | 2410   | 8420 | 5870 | 3640 | 361    | .00 | 58    | 553    | 3510  | 4220 |
| CAL YR 1985 | TOTAL | 12115.82 |        | MEAN | 33.2 | MAX  | 266    | MIN | .00   | AC-FT  | 24030 |      |
| WTR YR 1986 | TOTAL | 19734.01 |        | MEAN | 54.1 | MAX  | 266    | MIN | .00   | AC-FT  | 39140 |      |

## SOUTH FLORIDA

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## KISSIMMEE RIVER BASIN

02266500 REEDY CREEK NEAR LOUGHMAN, FL--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1960, 1965, 1968 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | TUR-<br>BID-<br>ITY<br>(NTU)<br>(00076) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3)<br>(00900) | HARD-<br>NESS<br>NONCARE<br>WH WAT<br>TOT FLD<br>MG/L AS<br>CACO3<br>(00902) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA)<br>(00915) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG)<br>(00925) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930) |
|--------------|------|--------------------------------------------------------------|-------------------------------------------|-------------------------------------------------|---------------------------------------------------------|-----------------------------------------|------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|
| NOV<br>05... | 0935 | --                                                           | --                                        | --                                              | 560                                                     | 0.50                                    | --                                             | 53                                                | 25                                                                           | 14                                                      | 4.5                                                             | 12                                                      |
| JAN<br>21... | 0908 | 94                                                           | 5.90                                      | 13.5                                            | 400                                                     | 0.30                                    | 2.2                                            | 43                                                | 35                                                                           | 11                                                      | 3.8                                                             | 9.9                                                     |
| MAR<br>04... | 0835 | 119                                                          | 5.70                                      | 13.5                                            | 320                                                     | 1.0                                     | 4.9                                            | 50                                                | 24                                                                           | 13                                                      | 4.2                                                             | 12                                                      |
| APR<br>28... | 0930 | 220                                                          | 7.00                                      | 18.5                                            | --                                                      | --                                      | 3.8                                            | --                                                | --                                                                           | --                                                      | --                                                              | --                                                      |
| MAY<br>05... | 0930 | 220                                                          | 6.70                                      | 21.5                                            | 160                                                     | 0.30                                    | 1.6                                            | 64                                                | 16                                                                           | 17                                                      | 5.3                                                             | 18                                                      |
| JUN<br>04... | 1130 | 260                                                          | 6.90                                      | 25.0                                            | --                                                      | --                                      | 1.6                                            | --                                                | --                                                                           | --                                                      | --                                                              | --                                                      |
| JUL<br>29... | 0835 | 177                                                          | 6.50                                      | 24.5                                            | 400                                                     | 0.50                                    | 2.7                                            | 59                                                | 27                                                                           | 16                                                      | 4.6                                                             | 14                                                      |
| AUG<br>11... | 1012 | 112                                                          | 6.00                                      | 25.0                                            | 560                                                     | 0.30                                    | 1.3                                            | 45                                                | 24                                                                           | 13                                                      | 3.0                                                             | 7.0                                                     |
| SEP<br>24... | 0950 | --                                                           | --                                        | --                                              | --                                                      | --                                      | 1.0                                            | --                                                | --                                                                           | --                                                      | --                                                              | --                                                      |

| DATE         | PERCENT<br>SODIUM<br>(00932) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO<br>(00931) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | NITRO-<br>GEN,<br>NITRATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00618) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) |
|--------------|------------------------------|----------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|
| NOV<br>05... | 31                           | 0.7                                                | 3.5                                                            | 30                                                       | 22                                                             | --                                                                       | 0.010                                                           | --                                                                       | 0.250                                                           | --                                                                       | 0.010                                                           |
| JAN<br>21... | 32                           | 0.7                                                | 2.8                                                            | 35                                                       | 19                                                             | --                                                                       | 0.020                                                           | --                                                                       | 0.040                                                           | --                                                                       | 0.010                                                           |
| MAR<br>04... | 33                           | 0.8                                                | 3.4                                                            | 17                                                       | 19                                                             | --                                                                       | 0.010                                                           | --                                                                       | 0.510                                                           | --                                                                       | 0.010                                                           |
| APR<br>28... | --                           | --                                                 | --                                                             | --                                                       | --                                                             | 1.08                                                                     | 0.020                                                           | 0.020                                                                    | 1.10                                                            | 1.10                                                                     | 0.120                                                           |
| MAY<br>05... | 36                           | 1                                                  | 5.4                                                            | 25                                                       | 29                                                             | --                                                                       | 0.040                                                           | --                                                                       | 0.960                                                           | --                                                                       | 0.240                                                           |
| JUN<br>04... | --                           | --                                                 | --                                                             | --                                                       | --                                                             | --                                                                       | 0.020                                                           | --                                                                       | 0.700                                                           | --                                                                       | 0.180                                                           |
| JUL<br>29... | 33                           | 0.8                                                | 3.0                                                            | 40                                                       | 23                                                             | --                                                                       | 0.010                                                           | --                                                                       | 0.200                                                           | --                                                                       | 0.060                                                           |
| AUG<br>11... | 24                           | 0.5                                                | 1.9                                                            | 30                                                       | 14                                                             | --                                                                       | 0.010                                                           | --                                                                       | 0.050                                                           | --                                                                       | 0.040                                                           |
| SEP<br>24... | --                           | --                                                 | --                                                             | --                                                       | --                                                             | --                                                                       | 0.020                                                           | --                                                                       | 0.040                                                           | --                                                                       | 0.030                                                           |



SOUTH FLORIDA  
KISSIMMEE RIVER BASIN

02266500 REEDY CREEK NEAR LOUGHMAN, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE      | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00605) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS.<br>(MG/L<br>AS N)<br>(00623) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00666) | PHOS-<br>PHORUS,<br>ORTHO,<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) | PHOS-<br>PHORUS,<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | ALUM-<br>INUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AL)<br>(01105) | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS)<br>(01002) | BERYL-<br>LIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BE)<br>(01012) |
|-----------|--------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------|
| NOV 05... | --                                                                       | 1.5                                                             | 1.5                                                                           | --                                                                           | 0.240                                                  | --                                                              | 0.200                                                            | --                                                                        | 220                                                                       | <1                                             | <10                                                                        |
| JAN 21... | --                                                                       | 1.4                                                             | 1.4                                                                           | --                                                                           | 0.150                                                  | --                                                              | 0.130                                                            | --                                                                        | --                                                                        | --                                             | --                                                                         |
| MAR 04... | --                                                                       | 0.99                                                            | 1.0                                                                           | --                                                                           | 0.180                                                  | --                                                              | 0.160                                                            | --                                                                        | 170                                                                       | <1                                             | <10                                                                        |
| APR 28... | 0.140                                                                    | 1.3                                                             | 1.4                                                                           | 1.2                                                                          | 0.420                                                  | 0.340                                                           | 0.350                                                            | 0.340                                                                     | --                                                                        | --                                             | --                                                                         |
| MAY 05... | --                                                                       | 1.1                                                             | 1.4                                                                           | --                                                                           | 0.500                                                  | --                                                              | 0.440                                                            | --                                                                        | 80                                                                        | <1                                             | <10                                                                        |
| JUN 04... | --                                                                       | 0.80                                                            | 0.98                                                                          | --                                                                           | 0.350                                                  | --                                                              | 0.310                                                            | --                                                                        | --                                                                        | --                                             | --                                                                         |
| JUL 29... | --                                                                       | 1.5                                                             | 1.6                                                                           | --                                                                           | 0.140                                                  | --                                                              | 0.130                                                            | --                                                                        | --                                                                        | --                                             | --                                                                         |
| AUG 11... | --                                                                       | 1.6                                                             | 1.6                                                                           | --                                                                           | 0.120                                                  | --                                                              | 0.110                                                            | --                                                                        | 240                                                                       | <1                                             | <10                                                                        |
| SEP 24... | --                                                                       | 1.5                                                             | 1.5                                                                           | --                                                                           | 0.140                                                  | --                                                              | 0.130                                                            | --                                                                        | --                                                                        | --                                             | --                                                                         |

| DATE      | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD)<br>(01027) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR)<br>(01034) | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU)<br>(01042) | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE)<br>(01045) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB)<br>(01051) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN)<br>(01055) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG)<br>(71900) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI)<br>(01067) | SELE-<br>NIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS SE)<br>(01147) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN)<br>(01092) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) |
|-----------|--------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------|
| NOV 05... | 1                                                                  | <10                                                                       | 3                                                                  | 730                                                              | 4                                                                | 20                                                                         | --                                                                 | 1                                                                  | <1                                                                        | 30                                                               | --                                                       |
| JAN 21... | --                                                                 | --                                                                        | --                                                                 | --                                                               | --                                                               | --                                                                         | --                                                                 | --                                                                 | --                                                                        | --                                                               | 57                                                       |
| MAR 04... | 1                                                                  | <10                                                                       | 1                                                                  | 290                                                              | <1                                                               | 20                                                                         | <0.10                                                              | 3                                                                  | <1                                                                        | 70                                                               | 37                                                       |
| APR 28... | --                                                                 | --                                                                        | --                                                                 | --                                                               | --                                                               | --                                                                         | --                                                                 | --                                                                 | --                                                                        | --                                                               | --                                                       |
| MAY 05... | <1                                                                 | <10                                                                       | 7                                                                  | 150                                                              | 2                                                                | 20                                                                         | 0.50                                                               | <1                                                                 | <1                                                                        | 10                                                               | --                                                       |
| AUG 11... | <1                                                                 | <10                                                                       | 3                                                                  | 510                                                              | <5                                                               | 10                                                                         | 1.1                                                                | 5                                                                  | <1                                                                        | 20                                                               | 63                                                       |

| DATE | PCB,<br>TOTAL<br>(UG/L)<br>(39516) | PCB,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39519) | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L)<br>(39250) | PCN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39251) | ALDRIN,<br>TOTAL<br>(UG/L)<br>(39330) | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39333) | CHLOR-<br>DANE,<br>TOTAL<br>(UG/L)<br>(39350) | CHLOR-<br>DANE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39351) | DDD,<br>TOTAL<br>(UG/L)<br>(39360) | DDD,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39363) | DDE,<br>TOTAL<br>(UG/L)<br>(39365) |
|------|------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------|------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------|------------------------------------|
|------|------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------|------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------|------------------------------------|

|           |      |    |       |      |        |      |      |    |        |     |        |
|-----------|------|----|-------|------|--------|------|------|----|--------|-----|--------|
| AUG 11... | <0.1 | <1 | <0.10 | <1.0 | <0.010 | <0.1 | <0.1 | 10 | <0.010 | 1.6 | <0.010 |
|-----------|------|----|-------|------|--------|------|------|----|--------|-----|--------|

| DATE | DDE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39368) | DDT,<br>TOTAL<br>(UG/L)<br>(39370) | DDT,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39373) | DI-<br>AZINON,<br>TOTAL<br>(UG/L)<br>(39570) | DI-<br>AZINON,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39571) | DI-<br>ELDRIN,<br>TOTAL<br>(UG/L)<br>(39380) | DI-<br>ELDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39383) | ENDO-<br>SULFAN,<br>TOTAL<br>(UG/L)<br>(39388) | ENDO-<br>SULFAN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39389) | ENDRIN,<br>TOTAL<br>(UG/L)<br>(39390) | ENDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39393) |
|------|---------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------------------------------|
|------|---------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------------------------------|

|           |     |        |      |       |      |        |      |        |      |        |      |
|-----------|-----|--------|------|-------|------|--------|------|--------|------|--------|------|
| AUG 11... | 3.0 | <0.010 | <0.1 | <0.01 | <0.1 | <0.010 | <0.1 | <0.010 | <0.1 | <0.010 | <0.1 |
|-----------|-----|--------|------|-------|------|--------|------|--------|------|--------|------|

## SOUTH FLORIDA

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## KISSIMMEE RIVER BASIN

02266500 REEDY CREEK NEAR LOUGHMAN, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | ETHION,<br>TOTAL<br>(UG/L)<br>(39398)                 | ETHION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39399)      | HEPTA-<br>CHLOR,<br>TOTAL<br>(UG/L)<br>(39410) | HEPTA-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39413) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOTAL<br>(UG/L)<br>(39420)                      | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39423) | MIREX,<br>TOTAL<br>(UG/L)<br>(39755)                                         | LINDANE<br>TOTAL<br>(UG/L)<br>(39340)         | LINDANE<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39343)         | MALA-<br>THION,<br>TOTAL<br>(UG/L)<br>(39530) | MALA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39531) |
|--------------|-------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------|
| AUG<br>11... | <0.01                                                 | 4.5                                                                         | <0.010                                         | <0.1                                                                            | <0.010                                                                        | <0.1                                                                           | <0.01                                                                        | <0.010                                        | <0.1                                                                           | <0.01                                         | 0.2                                                                            |
| DATE         | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L)<br>(39480) | METH-<br>OXY-<br>CHLOR,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39481) | GUTHION<br>TOTAL<br>(UG/L)<br>(39580)          | METHYL<br>PARA-<br>THION,<br>TOTAL<br>(UG/L)<br>(39600)                         | METHYL<br>PARA-<br>THION,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39601) | METHYL<br>TRI-<br>THION,<br>TOTAL<br>(UG/L)<br>(39790)                         | METHYL<br>TRI-<br>THION,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39791) | PARA-<br>THION,<br>TOTAL<br>(UG/L)<br>(39540) | PARA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39541) | DI-<br>SYSTON<br>TOTAL<br>(UG/L)<br>(39011)   | PHORATE<br>OTAL<br>(UG/L)<br>(39023)                                           |
| AUG<br>11... | <0.01                                                 | <0.1                                                                        | <0.10                                          | <0.01                                                                           | <0.1                                                                          | <0.01                                                                          | <0.1                                                                         | <0.01                                         | <0.1                                                                           | <0.01                                         | <0.01                                                                          |
| DATE         | PER-<br>THANE<br>TOTAL<br>(UG/L)<br>(39034)           | PER-<br>THANE<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(81886)         | TOX-<br>APHENE,<br>TOTAL<br>(UG/L)<br>(39400)  | TOXA-<br>PHENE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39403)  | TOTAL<br>TRI-<br>THION<br>(UG/L)<br>(39786)                                   | TRI-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39787)  | 2,4-D,<br>TOTAL<br>(UG/L)<br>(39730)                                         | 2,4,5-T<br>TOTAL<br>(UG/L)<br>(39740)         | MIREX,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39758)          | SILVEX,<br>TOTAL<br>(UG/L)<br>(39760)         | 2, 4-DP<br>TOTAL<br>(UG/L)<br>(82183)                                          |
| AUG<br>11... | <0.1                                                  | <1.00                                                                       | <1                                             | <10                                                                             | <0.01                                                                         | 0.7                                                                            | <0.01                                                                        | <0.01                                         | 1.6                                                                            | <0.01                                         | <0.01                                                                          |

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02266550 REEDY CREEK AT STATE HIGHWAY 531 NEAR POINSIANNA, FL

LOCATION.--Lat 28°08'59", long 81°26'28", in SE¼ sec.7, T.27 S., R.29 E., Osceola County, Hydrologic Unit 03090101, at bridge on State Highway 531, 1.6 mi upstream from Lake Russell, and about 9 mi southeast of Poinsianna.

DRAINAGE AREA.--170 mi<sup>2</sup>, approximately.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year (discharge measurements only).

EXTREMES FOR PERIOD OF RECORD.--Maximum measured, 464 ft<sup>3</sup>/s, Sept. 17, 1979; no flow observed at times most years.

## DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) | DATE  | TIME | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS) |
|-------|------|-------------------------------------------------|-------|------|-------------------------------------------------|
| NOV   |      |                                                 | APR   |      |                                                 |
| 06... | 1040 | 64                                              | 18... | 1620 | 5.4                                             |
| JAN   |      |                                                 | AUG   |      |                                                 |
| 06... | 1305 | 83                                              | 04... | 1725 | 5.2                                             |
| FEB   |      |                                                 |       |      |                                                 |
| 19... | 1515 | 167                                             |       |      |                                                 |

## SOUTH FLORIDA

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## KISSIMMEE RIVER BASIN

02266550 REEDY CREEK AT STATE HIGHWAY 531 NEAR POINSIANNA, FL--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978-83, 1986.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | TUR-<br>BID-<br>ITY<br>(NTU)<br>(00076) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3)<br>(00900) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT FLD<br>MG/L AS<br>CACO3<br>(00902) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA)<br>(00915) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG)<br>(00925) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930) |
|--------------|------|--------------------------------------------------------------|-------------------------------------------|-------------------------------------------------|---------------------------------------------------------|-----------------------------------------|------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|
| NOV<br>05... | 0935 | --                                                           | --                                        | --                                              | 560                                                     | 0.50                                    | --                                             | 53                                                | 25                                                                           | 14                                                      | 4.5                                                             | 12                                                      |
| JAN<br>21... | 0908 | 94                                                           | 5.90                                      | 13.5                                            | 400                                                     | 0.30                                    | 2.2                                            | 43                                                | 35                                                                           | 11                                                      | 3.8                                                             | 9.9                                                     |
| MAR<br>04... | 0835 | 119                                                          | 5.70                                      | 13.5                                            | 320                                                     | 1.0                                     | 4.9                                            | 50                                                | 24                                                                           | 13                                                      | 4.2                                                             | 12                                                      |
| APR<br>28... | 0930 | 220                                                          | 7.00                                      | 18.5                                            | --                                                      | --                                      | 3.8                                            | --                                                | --                                                                           | --                                                      | --                                                              | --                                                      |
| MAY<br>05... | 0930 | 220                                                          | 6.70                                      | 21.5                                            | 160                                                     | 0.30                                    | 1.6                                            | 64                                                | 16                                                                           | 17                                                      | 5.3                                                             | 18                                                      |
| JUN<br>04... | 1130 | 260                                                          | 6.90                                      | 25.0                                            | --                                                      | --                                      | 1.6                                            | --                                                | --                                                                           | --                                                      | --                                                              | --                                                      |
| JUL<br>29... | 0835 | 177                                                          | 6.50                                      | 24.5                                            | 400                                                     | 0.50                                    | 2.7                                            | 59                                                | 27                                                                           | 16                                                      | 4.6                                                             | 14                                                      |
| AUG<br>11... | 1012 | 112                                                          | 6.00                                      | 25.0                                            | 560                                                     | 0.30                                    | 1.3                                            | 45                                                | 24                                                                           | 13                                                      | 3.0                                                             | 7.0                                                     |
| SEP<br>24... | 0950 | --                                                           | --                                        | --                                              | --                                                      | --                                      | 1.0                                            | --                                                | --                                                                           | --                                                      | --                                                              | --                                                      |

| DATE         | PERCENT<br>SODIUM<br>(00932) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO<br>(00931) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | NITRO-<br>GEN,<br>NITRATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00618) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) |
|--------------|------------------------------|----------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|
| NOV<br>05... | 31                           | 0.7                                                | 3.5                                                            | 30                                                       | 22                                                             | --                                                                       | 0.010                                                           | --                                                                       | 0.250                                                           | --                                                                       | 0.010                                                           |
| JAN<br>21... | 32                           | 0.7                                                | 2.8                                                            | 35                                                       | 19                                                             | --                                                                       | 0.020                                                           | --                                                                       | 0.040                                                           | --                                                                       | 0.010                                                           |
| MAR<br>04... | 33                           | 0.8                                                | 3.4                                                            | 17                                                       | 19                                                             | --                                                                       | 0.010                                                           | --                                                                       | 0.510                                                           | --                                                                       | 0.010                                                           |
| APR<br>28... | --                           | --                                                 | --                                                             | --                                                       | --                                                             | 1.08                                                                     | 0.020                                                           | 0.020                                                                    | 1.10                                                            | 1.10                                                                     | 0.120                                                           |
| MAY<br>05... | 36                           | 1                                                  | 5.4                                                            | 25                                                       | 29                                                             | --                                                                       | 0.040                                                           | --                                                                       | 0.960                                                           | --                                                                       | 0.240                                                           |
| JUN<br>04... | --                           | --                                                 | --                                                             | --                                                       | --                                                             | --                                                                       | 0.020                                                           | --                                                                       | 0.700                                                           | --                                                                       | 0.180                                                           |
| JUL<br>29... | 33                           | 0.8                                                | 3.0                                                            | 40                                                       | 23                                                             | --                                                                       | 0.010                                                           | --                                                                       | 0.200                                                           | --                                                                       | 0.060                                                           |
| AUG<br>11... | 24                           | 0.5                                                | 1.9                                                            | 30                                                       | 14                                                             | --                                                                       | 0.010                                                           | --                                                                       | 0.050                                                           | --                                                                       | 0.040                                                           |
| SEP<br>24... | --                           | --                                                 | --                                                             | --                                                       | --                                                             | --                                                                       | 0.020                                                           | --                                                                       | 0.040                                                           | --                                                                       | 0.030                                                           |

SOUTH FLORIDA  
KISSIMMEE RIVER BASIN

02266550 REEDY CREEK AT STATE HIGHWAY 531 NEAR POINSIANNA, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE      | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00605) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>DIS.<br>(MG/L<br>AS N)<br>(00623) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00666) | PHOS-<br>PHORUS,<br>ORTHO,<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | ALUM-<br>INUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AL)<br>(01105) | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS)<br>(01002) | BERYL-<br>LIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BE)<br>(01012) |
|-----------|--------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------|
| NOV 05... | --                                                                       | 1.5                                                             | 1.5                                                                            | --                                                                            | 0.240                                                  | --                                                              | 0.200                                                            | --                                                              | 220                                                                       | <1                                             | <10                                                                        |
| JAN 21... | --                                                                       | 1.4                                                             | 1.4                                                                            | --                                                                            | 0.150                                                  | --                                                              | 0.130                                                            | --                                                              | --                                                                        | --                                             | --                                                                         |
| MAR 04... | --                                                                       | 0.99                                                            | 1.0                                                                            | --                                                                            | 0.180                                                  | --                                                              | 0.160                                                            | --                                                              | 170                                                                       | <1                                             | <10                                                                        |
| APR 28... | 0.140                                                                    | 1.3                                                             | 1.4                                                                            | 1.2                                                                           | 0.420                                                  | 0.340                                                           | 0.350                                                            | 0.340                                                           | --                                                                        | --                                             | --                                                                         |
| MAY 05... | --                                                                       | 1.1                                                             | 1.4                                                                            | --                                                                            | 0.500                                                  | --                                                              | 0.440                                                            | --                                                              | 80                                                                        | <1                                             | <10                                                                        |
| JUN 04... | --                                                                       | 0.80                                                            | 0.98                                                                           | --                                                                            | 0.350                                                  | --                                                              | 0.310                                                            | --                                                              | --                                                                        | --                                             | --                                                                         |
| JUL 29... | --                                                                       | 1.5                                                             | 1.6                                                                            | --                                                                            | 0.140                                                  | --                                                              | 0.130                                                            | --                                                              | --                                                                        | --                                             | --                                                                         |
| AUG 11... | --                                                                       | 1.6                                                             | 1.6                                                                            | --                                                                            | 0.120                                                  | --                                                              | 0.110                                                            | --                                                              | 240                                                                       | <1                                             | <10                                                                        |
| SEP 24... | --                                                                       | 1.5                                                             | 1.5                                                                            | --                                                                            | 0.140                                                  | --                                                              | 0.130                                                            | --                                                              | --                                                                        | --                                             | --                                                                         |

| DATE      | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD)<br>(01027) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR)<br>(01034) | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU)<br>(01042) | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE)<br>(01045) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB)<br>(01051) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN)<br>(01055) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG)<br>(71900) | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI)<br>(01067) | SELE-<br>NIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS SE)<br>(01147) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN)<br>(01092) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) |
|-----------|--------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------|
| NOV 05... | 1                                                                  | <10                                                                       | 3                                                                  | 730                                                              | 4                                                                | 20                                                                         | --                                                                 | 1                                                                  | <1                                                                        | 30                                                               | --                                                       |
| JAN 21... | --                                                                 | --                                                                        | --                                                                 | --                                                               | --                                                               | --                                                                         | --                                                                 | --                                                                 | --                                                                        | --                                                               | 57                                                       |
| MAR 04... | 1                                                                  | <10                                                                       | 1                                                                  | 290                                                              | <1                                                               | 20                                                                         | <0.10                                                              | 3                                                                  | <1                                                                        | 70                                                               | 37                                                       |
| MAY 05... | <1                                                                 | <10                                                                       | 7                                                                  | 150                                                              | 2                                                                | 20                                                                         | 0.50                                                               | <1                                                                 | <1                                                                        | 10                                                               | --                                                       |
| AUG 11... | <1                                                                 | <10                                                                       | 3                                                                  | 510                                                              | <5                                                               | 10                                                                         | 1.1                                                                | 5                                                                  | <1                                                                        | 20                                                               | 63                                                       |

| DATE | PCB,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39516) | PCB,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39519) | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L)<br>(39250) | PCN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39251) | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39330) | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39333) | CHLOR-<br>DANE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39350) | CHLOR-<br>DANE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39351) | DDD,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39360) | DDD,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39363) | DDE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39365) |
|------|--------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|
|------|--------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------|

|           |      |    |       |      |        |      |      |    |        |     |        |
|-----------|------|----|-------|------|--------|------|------|----|--------|-----|--------|
| AUG 11... | <0.1 | <1 | <0.10 | <1.0 | <0.010 | <0.1 | <0.1 | 10 | <0.010 | 1.6 | <0.010 |
|-----------|------|----|-------|------|--------|------|------|----|--------|-----|--------|

| DATE | DDE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39368) | DDT,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39370) | DDT,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39373) | DI-<br>AZINON,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39570) | DI-<br>AZINON,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39571) | DI-<br>ELDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39380) | DI-<br>ELDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39383) | ENDO-<br>SULFAN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39388) | ENDO-<br>SULFAN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39389) | ENDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39390) | ENDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39393) |
|------|---------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------|
|------|---------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------|

|           |     |        |      |       |      |        |      |        |      |        |      |
|-----------|-----|--------|------|-------|------|--------|------|--------|------|--------|------|
| AUG 11... | 3.0 | <0.010 | <0.1 | <0.01 | <0.1 | <0.010 | <0.1 | <0.010 | <0.1 | <0.010 | <0.1 |
|-----------|-----|--------|------|-------|------|--------|------|--------|------|--------|------|



## KISSIMMEE RIVER BASIN

02266550 REEDY CREEK AT STATE HIGHWAY 531 NEAR POINSIANNA, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | ETHION,<br>TOTAL<br>(UG/L)<br>(39398)                 | ETHION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39399)      | HEPTA-<br>CHLOR,<br>TOTAL<br>(UG/L)<br>(39410) | HEPTA-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39413) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOTAL<br>(UG/L)<br>(39420)                      | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39423) | MIREX,<br>TOTAL<br>(UG/L)<br>(39755)                                         | LINDANE<br>TOTAL<br>(UG/L)<br>(39340)         | LINDANE<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39343)         | MALA-<br>THION,<br>TOTAL<br>(UG/L)<br>(39530) | MALA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39531) |
|--------------|-------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------|
| AUG<br>11... | <0.01                                                 | 4.5                                                                         | <0.010                                         | <0.1                                                                            | <0.010                                                                        | <0.1                                                                           | <0.01                                                                        | <0.010                                        | <0.1                                                                           | <0.01                                         | 0.2                                                                            |
| DATE         | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L)<br>(39480) | METH-<br>OXY-<br>CHLOR,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39481) | GUTHION<br>TOTAL<br>(UG/L)<br>(39580)          | METHYL<br>PARA-<br>THION,<br>TOTAL<br>(UG/L)<br>(39600)                         | METHYL<br>PARA-<br>THION,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39601) | METHYL<br>TRI-<br>THION,<br>TOTAL<br>(UG/L)<br>(39790)                         | METHYL<br>TRI-<br>THION,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39791) | PARA-<br>THION,<br>TOTAL<br>(UG/L)<br>(39540) | PARA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39541) | DI-<br>SYSTON<br>TOTAL<br>(UG/L)<br>(39011)   | PHORATE<br>OTAL<br>(UG/L)<br>(39023)                                           |
| AUG<br>11... | <0.01                                                 | <0.1                                                                        | <0.10                                          | <0.01                                                                           | <0.1                                                                          | <0.01                                                                          | <0.1                                                                         | <0.01                                         | <0.1                                                                           | <0.01                                         | <0.01                                                                          |
| DATE         | PER-<br>THANE<br>TOTAL<br>(UG/L)<br>(39034)           | PER-<br>THANE<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(81886)         | TOX-<br>APHENE,<br>TOTAL<br>(UG/L)<br>(39400)  | TOXA-<br>PHENE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39403)  | TOTAL<br>TRI-<br>THION<br>(UG/L)<br>(39786)                                   | TRI-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39787)  | 2,4-D,<br>TOTAL<br>(UG/L)<br>(39730)                                         | 2,4,5-T<br>TOTAL<br>(UG/L)<br>(39740)         | MIREX,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39758)          | SILVEX,<br>TOTAL<br>(UG/L)<br>(39760)         | 2, 4-DP<br>TOTAL<br>(UG/L)<br>(82183)                                          |
| AUG<br>11... | <0.1                                                  | <1.00                                                                       | <1                                             | <10                                                                             | <0.01                                                                         | 0.7                                                                            | <0.01                                                                        | <0.01                                         | 1.6                                                                            | <0.01                                         | <0.01                                                                          |

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02266600 CYPRESS LAKE NEAR ST. CLOUD, FL

LOCATION.--Lat 28°04'29", long 81°18'07", in SW¼ sec.2, T.28 S., R.30 E., Osceola County, Hydrologic Unit 03090101, on east shore of lake, near mouth of Canoe Creek, and about 12 mi south of St. Cloud.

SURFACE AREA.--4,085 acres (6.38 mi<sup>2</sup>).

DRAINAGE AREA.--1,162 mi<sup>2</sup>, combined drainage area of Cypress Lake and Lake Hatchineha.

PERIOD OF RECORD.--January 1942 to current year. Records of elevations prior to October 1960 are unpublished and available in files of the Orlando Subdistrict Office.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Prior to Dec. 13, 1973, at site 2.3 mi southwest at datum 48.78 ft higher and Dec. 13, 1973 to June 21, 1979, at site 2.3 mi southwest at present datum.

REMARKS.--Lake is one of the Kissimmee River headwaters chain of lakes. Stage is affected by operation of control structures upstream and downstream. Flow into Short Canal begins at about elevation 53.2 ft. Overflow over the south shore begins at a slightly higher stage.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 57.18 ft, Sept. 26, 1960; minimum daily, 47.60 ft, June 4, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 53.09 ft, Jan. 12; minimum daily recorded, 49.51 ft, June 19, but may have been lower during period of no gage-height record May 12 to June 18.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1    | 52.14 | 52.24 | 52.36 | 52.42 | 52.03 | 51.16 | ---   | 50.16 | ---   | 49.78 | 50.47 | 51.30 |
| 2    | 52.07 | 52.15 | 52.34 | 52.44 | 52.01 | 51.04 | ---   | 50.17 | ---   | 49.81 | 50.50 | 51.28 |
| 3    | 52.06 | 52.21 | 52.25 | 52.47 | 51.99 | 51.06 | ---   | 50.08 | ---   | 49.82 | 50.53 | 51.26 |
| 4    | 52.00 | 52.26 | 52.27 | 52.45 | 52.00 | 51.08 | ---   | 50.02 | ---   | 49.97 | 50.51 | 51.23 |
| 5    | 51.98 | 52.21 | 52.32 | 52.45 | 52.03 | 51.03 | ---   | 50.07 | ---   | 49.99 | 50.52 | 51.24 |
| 6    | 51.87 | 52.20 | 52.33 | 52.49 | 52.00 | 51.07 | ---   | 50.07 | ---   | 49.99 | 50.52 | 51.28 |
| 7    | 51.80 | 52.19 | 52.31 | 52.50 | 52.07 | 51.04 | ---   | 50.06 | ---   | 49.99 | 50.52 | 51.27 |
| 8    | 51.86 | 52.19 | 52.34 | 52.65 | 52.06 | 51.01 | ---   | 50.05 | ---   | 49.98 | 50.53 | 51.27 |
| 9    | 51.90 | 52.19 | 52.34 | 52.93 | 52.16 | 51.04 | ---   | 50.03 | ---   | 50.00 | 50.55 | 51.37 |
| 10   | 51.97 | 52.21 | 52.35 | 53.00 | 52.21 | 51.08 | ---   | 49.99 | ---   | 50.01 | 50.56 | 51.55 |
| 11   | 51.98 | 52.21 | 52.37 | 53.04 | 52.13 | 51.10 | ---   | 50.05 | ---   | 50.03 | 50.56 | 51.64 |
| 12   | 51.98 | 52.23 | 52.38 | 53.09 | 51.98 | 51.12 | ---   | ---   | ---   | 50.01 | 50.58 | 51.69 |
| 13   | 51.99 | 52.24 | 52.41 | 53.07 | 51.94 | 51.17 | ---   | ---   | ---   | 50.13 | 50.64 | 51.66 |
| 14   | 52.01 | 52.24 | 52.40 | 53.03 | 52.01 | 51.27 | ---   | ---   | ---   | 50.14 | 50.73 | 51.67 |
| 15   | 52.02 | 52.24 | 52.34 | 53.00 | 51.99 | 51.29 | 50.63 | ---   | ---   | 50.14 | 50.82 | 51.68 |
| 16   | 52.03 | 52.25 | 52.32 | 52.99 | 51.88 | 51.47 | 50.66 | ---   | ---   | 50.16 | 50.89 | 51.65 |
| 17   | 52.02 | 52.23 | 52.32 | 52.98 | 51.88 | 51.59 | 50.59 | ---   | ---   | 50.18 | 51.00 | 51.56 |
| 18   | 52.01 | 52.21 | 52.34 | 53.02 | 51.84 | 51.62 | 50.51 | ---   | ---   | 50.18 | 51.11 | 51.54 |
| 19   | 52.03 | 52.20 | 52.33 | 52.88 | 51.82 | 51.72 | 50.45 | ---   | 49.51 | 50.14 | 51.21 | 51.51 |
| 20   | 52.04 | 52.29 | 52.34 | 52.70 | 51.73 | 51.78 | 50.46 | ---   | 49.63 | 50.15 | 51.37 | 51.52 |
| 21   | 52.05 | 52.37 | 52.34 | 52.63 | 51.65 | 51.71 | 50.49 | ---   | 49.65 | 50.16 | 51.39 | 51.50 |
| 22   | 52.06 | 52.40 | 52.31 | 52.55 | 51.60 | 51.64 | 50.43 | ---   | 49.71 | 50.14 | 51.39 | 51.50 |
| 23   | 52.06 | 52.31 | 52.34 | 52.47 | 51.55 | 51.57 | 50.26 | ---   | 49.74 | 50.14 | 51.38 | 51.51 |
| 24   | 52.06 | 52.31 | 52.37 | 52.43 | 51.49 | 51.45 | 50.25 | ---   | 49.76 | 50.15 | 51.37 | 51.52 |
| 25   | 52.04 | 52.32 | 52.37 | 52.42 | 51.37 | 51.22 | 50.25 | ---   | 49.79 | 50.18 | 51.33 | 51.54 |
| 26   | 52.05 | 52.33 | 52.25 | 52.36 | 51.33 | 51.17 | 50.24 | ---   | 49.76 | 50.21 | 51.31 | 51.54 |
| 27   | 52.08 | 52.34 | 52.32 | 52.19 | 51.38 | 51.14 | 50.23 | ---   | 49.75 | 50.25 | 51.28 | 51.54 |
| 28   | 52.10 | 52.35 | 52.32 | 52.14 | 51.19 | ---   | 50.20 | ---   | 49.74 | 50.31 | 51.29 | 51.54 |
| 29   | 52.09 | 52.33 | 52.32 | 52.08 | ---   | ---   | 50.18 | ---   | 49.75 | 50.37 | 51.34 | 51.54 |
| 30   | 52.14 | 52.35 | 52.34 | 52.07 | ---   | ---   | 50.15 | ---   | 49.76 | 50.41 | 51.32 | 51.54 |
| 31   | 52.20 | ---   | 52.40 | 52.04 | ---   | ---   | ---   | ---   | ---   | 50.43 | 51.32 | ---   |
| MEAN | 52.02 | 52.26 | 52.34 | 52.61 | 51.83 | ---   | ---   | ---   | ---   | 50.11 | 50.93 | 51.48 |
| MAX  | 52.20 | 52.40 | 52.41 | 53.09 | 52.21 | ---   | ---   | ---   | ---   | 50.43 | 51.39 | 51.69 |
| MIN  | 51.80 | 52.15 | 52.25 | 52.04 | 51.19 | ---   | ---   | ---   | ---   | 49.78 | 50.47 | 51.23 |

## SOUTH FLORIDA

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## KISSIMMEE RIVER BASIN

02266650 LAKE MARION NEAR HAINES CITY, FL

LOCATION.--Lat 28°05'56", long 81°31'51", in SE¼ sec.29, T.27 S., R.28 E., Polk County, Hydrologic Unit 03090101, on northeast shore of lake, 4.5 mi east of Haines City.

SURFACE AREA.--2,968 acres (4.64 mi<sup>2</sup>).

DRAINAGE AREA.--35.7 mi<sup>2</sup>.

PERIOD OF RECORD.--February to August 1958 (weekly), incomplete, September 1958 to current year. Records of elevations prior to October 1960 are unpublished and available in files of the Orlando Subdistrict Office.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (South Florida Water Management District bench mark). July 21, 1959, to Sept. 8, 1963, at site 500 ft north and Sept. 9, 1963, to Jan. 29, 1974, at present site, at datum 63.22 ft higher.

REMARKS.--Lake is in the headwaters of Kissimmee River. Outflow from lake is through Lake Marion Creek to Lake Hatchineha.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 67.52 ft, Sept. 12,15, 1960; minimum observed, 64.86 ft, June 1, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 66.86 ft, Oct. 1, occurred on recession following crest of Sept. 22,23, 1985; minimum observed, 65.20 ft, June 8.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
INSTANT VALUES

| DAY              | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1                | 66.86 | 66.26 | 66.02 | 65.98 | 66.10 | 66.00 | 65.96 | 65.54 | 65.28 | 66.10 | 66.22 | 66.34 |
| 2                | 66.84 | 66.24 | 66.00 | 65.96 | 66.08 | 66.00 | 65.96 | 65.52 | 65.30 | 66.10 | 66.24 | 66.34 |
| 3                | 66.82 | 66.24 | 65.98 | 65.96 | 66.08 | 66.00 | 65.94 | 65.52 | 65.30 | 66.08 | 66.30 | 66.36 |
| 4                | 66.78 | 66.22 | 65.96 | 65.94 | 66.08 | 65.98 | 65.94 | 65.50 | 65.28 | 66.12 | 66.28 | 66.36 |
| 5                | 66.76 | 66.20 | 66.02 | 66.04 | 66.06 | 65.98 | 65.94 | 65.50 | 65.26 | 66.12 | 66.34 | 66.40 |
| 6                | 66.72 | 66.18 | 66.04 | 66.04 | 66.06 | 65.96 | 65.92 | 65.48 | 65.24 | 66.10 | 66.32 | 66.40 |
| 7                | 66.68 | 66.18 | 66.04 | 66.04 | 66.06 | 65.96 | 65.92 | 65.48 | 65.22 | 66.10 | 66.30 | 66.38 |
| 8                | 66.66 | 66.18 | 66.02 | 66.06 | 66.14 | 65.94 | 65.90 | 65.46 | 65.20 | 66.08 | 66.30 | 66.44 |
| 9                | 66.64 | 66.16 | 66.00 | 66.08 | 66.14 | 65.94 | 65.90 | 65.52 | 65.28 | 66.08 | 66.28 | 66.52 |
| 10               | 66.62 | 66.16 | 66.00 | 66.18 | 66.14 | 65.94 | 65.88 | 65.52 | 65.30 | 66.06 | 66.26 | 66.60 |
| 11               | 66.60 | 66.14 | 66.00 | 66.20 | 66.12 | 65.92 | 65.86 | 65.50 | 65.34 | 66.06 | 66.26 | 66.60 |
| 12               | 66.58 | 66.14 | 65.98 | 66.20 | 66.12 | 65.92 | 65.84 | 65.50 | 65.40 | 66.08 | 66.28 | 66.58 |
| 13               | 66.56 | 66.12 | 65.98 | 66.20 | 66.10 | 65.90 | 65.82 | 65.48 | 65.42 | 66.08 | 66.28 | 66.62 |
| 14               | 66.58 | 66.12 | 66.02 | 66.20 | 66.10 | 65.96 | 65.80 | 65.48 | 65.48 | 66.06 | 66.28 | 66.62 |
| 15               | 66.56 | 66.10 | 66.02 | 66.18 | 66.10 | 66.04 | 65.78 | 65.46 | 65.48 | 66.06 | 66.26 | 66.61 |
| 16               | 66.54 | 66.10 | 66.00 | 66.18 | 66.08 | 66.14 | 65.76 | 65.46 | 65.56 | 66.04 | 66.24 | 66.60 |
| 17               | 66.54 | 66.08 | 65.98 | 66.18 | 66.08 | 66.16 | 65.74 | 65.44 | 65.60 | 66.04 | 66.24 | 66.58 |
| 18               | 66.52 | 66.08 | 65.98 | 66.18 | 66.08 | 66.16 | 65.72 | 65.44 | 65.64 | 66.02 | 66.24 | 66.56 |
| 19               | 66.50 | 66.08 | 65.98 | 66.18 | 66.06 | 66.14 | 65.70 | 65.42 | 65.94 | 66.00 | 66.28 | 66.54 |
| 20               | 66.50 | 66.06 | 65.98 | 66.16 | 66.06 | 66.12 | 65.70 | 65.42 | 65.98 | 66.00 | 66.34 | 66.52 |
| 21               | 66.48 | 66.08 | 65.96 | 66.16 | 66.06 | 66.10 | 65.68 | 65.44 | 65.98 | 65.98 | 66.34 | 66.48 |
| 22               | 66.46 | 66.10 | 65.96 | 66.16 | 66.04 | 66.08 | 65.68 | 65.44 | 65.98 | 65.98 | 66.32 | 66.46 |
| 23               | 66.46 | 66.10 | 65.96 | 66.16 | 66.06 | 66.04 | 65.66 | 65.42 | 65.98 | 66.00 | 66.30 | 66.44 |
| 24               | 66.44 | 66.08 | 65.94 | 66.16 | 66.06 | 66.04 | 65.66 | 65.42 | 66.04 | 66.02 | 66.28 | 66.42 |
| 25               | 66.42 | 66.08 | 65.94 | 66.14 | 66.04 | 66.02 | 65.64 | 65.40 | 66.04 | 66.04 | 66.26 | 66.40 |
| 26               | 66.40 | 66.06 | 65.92 | 66.14 | 66.04 | 66.02 | 65.62 | 65.38 | 66.02 | 66.06 | 66.26 | 66.38 |
| 27               | 66.38 | 66.06 | 65.92 | 66.12 | 66.02 | 66.02 | 65.60 | 65.38 | 66.02 | 66.12 | 66.28 | 66.36 |
| 28               | 66.36 | 66.04 | 65.92 | 66.12 | 66.02 | 66.00 | 65.58 | 65.36 | 66.00 | 66.18 | 66.28 | 66.34 |
| 29               | 66.32 | 66.04 | 65.90 | 66.12 | ---   | 66.00 | 65.56 | 65.34 | 66.12 | 66.20 | 66.26 | 66.32 |
| 30               | 66.30 | 66.02 | 65.90 | 66.10 | ---   | 65.98 | 65.56 | 65.32 | 66.12 | 66.20 | 66.30 | 66.30 |
| 31               | 66.28 | ---   | 65.88 | 66.10 | ---   | 65.98 | ---   | 65.30 | ---   | 66.22 | 66.30 | ---   |
| MEAN             | 66.55 | 66.12 | 65.97 | 66.12 | 66.08 | 66.01 | 65.77 | 65.45 | 65.63 | 66.08 | 66.28 | 66.46 |
| MAX              | 66.86 | 66.26 | 66.04 | 66.20 | 66.14 | 66.16 | 65.96 | 65.54 | 66.12 | 66.22 | 66.34 | 66.62 |
| MIN              | 66.28 | 66.02 | 65.88 | 65.94 | 66.02 | 65.90 | 65.56 | 65.30 | 65.20 | 65.98 | 66.22 | 66.30 |
| CAL YR 1985 MEAN | 65.85 |       |       | 66.94 |       | 65.04 |       |       |       |       |       |       |
| WTR YR 1986 MEAN | 66.04 |       |       | 66.86 |       | 65.20 |       |       |       |       |       |       |

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02266900 LAKE PIERCE NEAR WAVERLY, FL

LOCATION.--Lat 27°58'37", long 81°32'33", in NW¼ sec.8, T.29 S., R.28 E., Polk County, Hydrologic Unit 03090101, on west shore of lake, at public boat landing, 4.5 mi east of Waverly, and 5.5 mi northeast of town of Lake Wales.

SURFACE AREA.--3,736 acres (5.84 mi<sup>2</sup>).

DRAINAGE AREA.--58.9 mi<sup>2</sup>.

PERIOD OF RECORD.--December 1947 to September 1971, October 1971 to current year (fragmentary). Prior to August 1959, records also for Catfish Creek near Lake Wales (station 02267000). Records of elevations prior to October 1960 are unpublished and available in files of the Orlando Subdistrict Office.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Prior to Aug. 20, 1959, water-stage recorder on left bank of Catfish Creek 0.2 mi downstream from lake. Aug. 21, 1959, to Sept. 30, 1971, water-stage recorder, and Oct. 1, 1971, to July 13, 1981, nonrecording gage at present site at datum 72.13 ft higher.

REMARKS.--Outflow from lake is through Catfish Creek to Lake Hatchineha, one of the Kissimmee River headwater lakes.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 78.91 ft Sept. 17, 18, 1960; minimum observed, 75.23 ft, May 24, 1985.

## ELEVATION, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE  | TIME | ELEV-<br>ATION<br>ABOVE<br>NGVD<br>(FEET) | DATE  | TIME | ELEV-<br>ATION<br>ABOVE<br>NGVD<br>(FEET) |
|-------|------|-------------------------------------------|-------|------|-------------------------------------------|
| OCT   |      |                                           | APR   |      |                                           |
| 30... | 1340 | 76.91                                     | 17... | 1300 | 76.30                                     |
| DEC   |      |                                           | JUN   |      |                                           |
| 18... | 1405 | 76.60                                     | 17... | 1955 | 76.15                                     |
| FEB   |      |                                           | AUG   |      |                                           |
| 11... | 1410 | 76.67                                     | 05... | 1010 | 76.75                                     |

## SOUTH FLORIDA

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## KISSIMMEE RIVER BASIN

02267000 CATFISH CREEK NEAR LAKE WALES, FL

LOCATION.--Lat 27°57'40", long 81°29'48", in sec.14, T.29 S., R.28 E., Polk County, Hydrologic Unit 03090101, on left bank, 0.2 mi downstream from Lake Pierce, 7 mi northeast of city of Lake Wales, and 9.3 mi upstream from mouth.

DRAINAGE AREA.--58.9 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 72.70 ft above National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark).

REMARKS.--Records good.

AVERAGE DISCHARGE.--39 years, 44.2 ft<sup>3</sup>/s, 10.19 in/yr, 32,020 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 235 ft<sup>3</sup>/s, Sept. 17,18, 1960; maximum gage height, 6.02 ft, Sept. 15, 1960, affected by wind; no flow, June 3-10, 1985; minimum gage height, 2.26 ft, June 8, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 55 ft<sup>3</sup>/s, Sept. 12,13, gage height, 4.40 ft; minimum, 3.9 ft<sup>3</sup>/s, May 31, June 1, gage height, 2.76 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT   | NOV     | DEC  | JAN  | FEB  | MAR  | APR  | MAY   | JUN   | JUL   | AUG   | SEP  |
|-------------|-------|---------|------|------|------|------|------|-------|-------|-------|-------|------|
| 1           | 48    | 36      | 30   | 25   | 26   | 24   | 23   | 12    | 4.3   | 19    | 34    | 45   |
| 2           | 48    | 36      | 30   | 25   | 25   | 23   | 23   | 12    | 4.9   | 20    | 33    | 45   |
| 3           | 49    | 36      | 30   | 25   | 25   | 22   | 22   | 12    | 5.4   | 21    | 33    | 45   |
| 4           | 49    | 37      | 28   | 25   | 25   | 22   | 22   | 11    | 5.5   | 24    | 34    | 45   |
| 5           | 49    | 36      | 29   | 27   | 25   | 22   | 22   | 10    | 5.2   | 25    | 34    | 44   |
| 6           | 50    | 35      | 30   | 26   | 25   | 22   | 21   | 9.9   | 5.2   | 26    | 35    | 46   |
| 7           | 49    | 35      | 29   | 26   | 25   | 22   | 21   | 9.7   | 4.8   | 26    | 37    | 45   |
| 8           | 48    | 35      | 29   | 26   | 26   | 21   | 22   | 9.5   | 4.8   | 26    | 36    | 47   |
| 9           | 47    | 35      | 29   | 26   | 27   | 20   | 21   | 9.7   | 4.8   | 25    | 36    | 50   |
| 10          | 46    | 35      | 28   | 29   | 27   | 20   | 21   | 9.4   | 4.8   | 25    | 35    | 54   |
| 11          | 46    | 35      | 28   | 30   | 27   | 20   | 20   | 9.1   | 4.7   | 25    | 34    | 54   |
| 12          | 46    | 34      | 28   | 30   | 27   | 20   | 20   | 8.9   | 4.8   | 26    | 34    | 54   |
| 13          | 45    | 34      | 28   | 30   | 26   | 20   | 20   | 8.6   | 4.8   | 30    | 35    | 54   |
| 14          | 45    | 34      | 29   | 29   | 25   | 21   | 20   | 8.2   | 4.8   | 30    | 37    | 54   |
| 15          | 45    | 34      | 28   | 29   | 25   | 23   | 20   | 7.9   | 5.2   | 30    | 36    | 54   |
| 16          | 44    | 33      | 27   | 29   | 25   | 26   | 20   | 7.7   | 5.6   | 30    | 38    | 53   |
| 17          | 43    | 33      | 26   | 28   | 25   | 26   | 18   | 7.2   | 7.9   | 30    | 39    | 52   |
| 18          | 42    | 32      | 26   | 28   | 25   | 26   | 16   | 7.0   | 9.0   | 29    | 39    | 51   |
| 19          | 42    | 32      | 26   | 29   | 25   | 26   | 16   | 6.8   | 9.6   | 29    | 41    | 52   |
| 20          | 42    | 32      | 26   | 29   | 25   | 26   | 16   | 6.8   | 11    | 28    | 44    | 51   |
| 21          | 41    | 32      | 25   | 28   | 25   | 27   | 15   | 6.7   | 12    | 27    | 45    | 51   |
| 22          | 41    | 32      | 25   | 28   | 25   | 26   | 15   | 6.7   | 12    | 26    | 45    | 50   |
| 23          | 41    | 32      | 25   | 28   | 26   | 24   | 14   | 6.6   | 14    | 26    | 44    | 50   |
| 24          | 40    | 32      | 25   | 28   | 26   | 24   | 14   | 6.3   | 15    | 26    | 44    | 49   |
| 25          | 39    | 32      | 26   | 28   | 25   | 23   | 14   | 6.1   | 19    | 27    | 44    | 49   |
| 26          | 38    | 32      | 25   | 28   | 24   | 23   | 13   | 5.9   | 19    | 28    | 43    | 48   |
| 27          | 38    | 31      | 24   | 29   | 24   | 25   | 13   | 5.1   | 19    | 29    | 42    | 48   |
| 28          | 38    | 31      | 24   | 27   | 23   | 25   | 13   | 4.7   | 18    | 30    | 43    | 47   |
| 29          | 38    | 31      | 25   | 26   | ---  | 24   | 13   | 4.5   | 18    | 30    | 46    | 46   |
| 30          | 37    | 30      | 25   | 26   | ---  | 24   | 12   | 4.2   | 18    | 32    | 46    | 45   |
| 31          | 35    | ---     | 23   | 26   | ---  | 23   | ---  | 4.1   | ---   | 32    | 46    | ---  |
| TOTAL       | 1349  | 1004    | 836  | 853  | 709  | 720  | 540  | 244.3 | 281.1 | 837   | 1212  | 1478 |
| MEAN        | 43.5  | 33.5    | 27.0 | 27.5 | 25.3 | 23.2 | 18.0 | 7.88  | 9.37  | 27.0  | 39.1  | 49.3 |
| MAX         | 50    | 37      | 30   | 30   | 27   | 27   | 23   | 12    | 19    | 32    | 46    | 54   |
| MIN         | 35    | 30      | 23   | 25   | 23   | 20   | 12   | 4.1   | 4.3   | 19    | 33    | 44   |
| AC-FT       | 2680  | 1990    | 1660 | 1690 | 1410 | 1430 | 1070 | 485   | 558   | 1660  | 2400  | 2930 |
| CAL YR 1985 | TOTAL | 6987.97 |      | MEAN | 19.1 | MAX  | 50   | MIN   | .00   | AC-FT | 13860 |      |
| WTR YR 1986 | TOTAL | 10063.4 |      | MEAN | 27.6 | MAX  | 54   | MIN   | 4.1   | AC-FT | 19960 |      |



## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02268400 LAKE WEOHYAKAPKA AT INDIAN LAKE ESTATES, FL

LOCATION.--Lat 27°48'50", long 81°23'16", in NE¼ sec.2, T.31 S., R.29 E., Polk County, Hydrologic Unit 03090101, on east shore of lake, on end of public pier at Indian Lake Estates, and 8.5 mi east of Babson Park.

SURFACE AREA.--7,555 acres (11.8 mi<sup>2</sup>).

DRAINAGE AREA.--93.5 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1958 to September 1960 (weekly to monthly), October 1960 to September 1961 (fragmentary), October 1961 to current year (weekly). Records of elevations prior to October 1960 are unpublished and available in files of the Orlando Subdistrict Office.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (Marion Engineer Associates, Inc. bench mark).

REMARKS.--Lake is at the headwater of Weohyakapka Creek.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 63.43 ft on or about Sept. 30, 1960, from floodmark; minimum observed, 58.90 ft, July 4, 25, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 61.68 ft, Sept. 7; minimum observed, 59.86 ft, June 2.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
INSTANT VALUES

| DAY | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY | JUN   | JUL   | AUG   | SEP   |
|-----|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|
| 1   | ---   | ---   | ---   | ---   | 60.88 | ---   | ---   | --- | ---   | ---   | ---   | ---   |
| 2   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | --- | 59.86 | ---   | ---   | ---   |
| 3   | ---   | ---   | 60.98 | ---   | 60.82 | 60.84 | ---   | --- | ---   | ---   | ---   | ---   |
| 4   | 61.40 | ---   | ---   | 60.88 | ---   | ---   | 60.62 | --- | ---   | ---   | ---   | ---   |
| 5   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | --- | ---   | ---   | ---   | ---   |
| 6   | ---   | 60.98 | ---   | ---   | ---   | ---   | ---   | --- | ---   | ---   | ---   | ---   |
| 7   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | --- | ---   | ---   | 61.10 | 61.68 |
| 8   | ---   | ---   | ---   | ---   | ---   | ---   | ---   | --- | ---   | ---   | ---   | ---   |
| 9   | ---   | ---   | 60.92 | ---   | 60.86 | ---   | ---   | --- | ---   | ---   | ---   | ---   |
| 10  | 61.38 | ---   | ---   | ---   | ---   | 60.84 | 60.60 | --- | ---   | ---   | ---   | ---   |
| 11  | ---   | ---   | 60.96 | ---   | ---   | ---   | ---   | --- | ---   | ---   | ---   | ---   |
| 12  | ---   | ---   | ---   | 60.88 | ---   | ---   | ---   | --- | ---   | ---   | ---   | ---   |
| 13  | ---   | ---   | ---   | ---   | ---   | ---   | ---   | --- | ---   | 60.92 | ---   | ---   |
| 14  | ---   | 60.96 | ---   | ---   | ---   | ---   | ---   | --- | ---   | ---   | 61.18 | 61.66 |
| 15  | ---   | ---   | ---   | ---   | ---   | ---   | ---   | --- | ---   | ---   | ---   | ---   |
| 16  | 61.30 | ---   | ---   | ---   | ---   | ---   | ---   | --- | ---   | ---   | ---   | ---   |
| 17  | ---   | ---   | ---   | ---   | 60.84 | 60.82 | ---   | --- | ---   | ---   | ---   | ---   |
| 18  | ---   | ---   | 60.90 | ---   | ---   | ---   | 60.54 | --- | ---   | ---   | ---   | ---   |
| 19  | ---   | ---   | ---   | ---   | ---   | ---   | ---   | --- | ---   | 61.00 | ---   | ---   |
| 20  | ---   | ---   | ---   | 60.88 | ---   | ---   | ---   | --- | ---   | ---   | ---   | ---   |
| 21  | ---   | 60.92 | ---   | ---   | ---   | ---   | ---   | --- | ---   | ---   | 61.40 | ---   |
| 22  | ---   | ---   | ---   | ---   | ---   | ---   | ---   | --- | ---   | ---   | ---   | 61.60 |
| 23  | ---   | ---   | ---   | ---   | ---   | ---   | 60.48 | --- | ---   | ---   | ---   | ---   |
| 24  | ---   | ---   | ---   | ---   | ---   | 60.82 | ---   | --- | ---   | ---   | ---   | ---   |
| 25  | 61.20 | ---   | ---   | ---   | ---   | ---   | ---   | --- | ---   | ---   | ---   | ---   |
| 26  | ---   | ---   | 60.80 | ---   | 60.82 | ---   | ---   | --- | ---   | ---   | ---   | ---   |
| 27  | ---   | 60.90 | ---   | ---   | ---   | ---   | ---   | --- | ---   | ---   | ---   | ---   |
| 28  | ---   | ---   | ---   | 60.86 | ---   | 60.90 | ---   | --- | ---   | ---   | 61.54 | ---   |
| 29  | ---   | ---   | ---   | ---   | ---   | ---   | ---   | --- | ---   | ---   | ---   | 61.52 |
| 30  | ---   | ---   | ---   | ---   | ---   | ---   | 60.44 | --- | ---   | ---   | ---   | 61.50 |
| 31  | 61.04 | ---   | ---   | ---   | ---   | ---   | ---   | --- | ---   | 61.08 | ---   | ---   |

## SOUTH FLORIDA

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## KISSIMMEE RIVER BASIN

## 02268600 LAKE ROSALIE NEAR LAKE WALES, FL

LOCATION.--Lat 27°56'23", long 81°25'14", in SE¼ sec.21, T.29 S., R.29 E., Polk County, Hydrologic Unit 03090101, on west side of lake, in boat basin at Monroe's Trailer Park, 10.5 mi northeast of town of Lake Wales.

SURFACE AREA.--4,592 acres (7.18 mi<sup>2</sup>).

DRAINAGE AREA.--133 mi<sup>2</sup>.

PERIOD OF RECORD.--December 1941 to February 1942 (weekly), March to July 1942, August 1942 to August 1943 (fragmentary), March 1958 to April 1967 (weekly), incomplete, May 1967 to current year. Records of elevations prior to October 1960 are unpublished and available in files of the Orlando Subdistrict Office.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Prior to Mar. 5, 1942, nonrecording gage at site 1.3 mi northeast at datum 53.19 ft higher. Mar. 5, 1942, to July 27, 1942, and Mar. 20, 1958, to Sept. 19, 1974, recording or nonrecording gages at several sites within 1.5 mi at datum 49.41 ft higher, and Sept. 19, 1974, to Oct. 17, 1979, nonrecording gage at site 400 ft west at present datum.

REMARKS.--Outflow from lake is through diversion canal to Lake Kissimmee, the most downstream of the Kissimmee River headwaters chain of lakes and also through Rosalie Creek to Tiger Lake, thence through Tiger Creek to Lake Kissimmee.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 55.93 ft, Oct. 3, 1960; minimum observed, 50.30 ft, June 2-4, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 54.16 ft, Oct. 6; minimum observed, 51.59 ft, June 12.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
INSTANT VALUES

| DAY              | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1                | 54.08 | 53.76 | 53.37 | 53.08 | 53.05 | 53.06 | 53.02 | 52.34 | 51.69 | 51.72 | 52.21 | 53.32 |
| 2                | 54.07 | 53.74 | 53.35 | 53.09 | 53.05 | 53.00 | 53.02 | 52.32 | 51.70 | 51.77 | 52.24 | 53.38 |
| 3                | 54.06 | 53.74 | 53.33 | 53.08 | 53.05 | 52.98 | 53.00 | 52.30 | 51.70 | 51.76 | 52.24 | 53.40 |
| 4                | 54.09 | 53.78 | 53.31 | 53.08 | 53.04 | 52.96 | 52.96 | 52.27 | 51.68 | 51.87 | 52.22 | 53.44 |
| 5                | 54.15 | 53.78 | 53.30 | 53.09 | 53.04 | 52.94 | 52.96 | 52.25 | 51.66 | 51.88 | 52.21 | 53.48 |
| 6                | 54.16 | 53.74 | 53.34 | 53.10 | 53.04 | 52.93 | 52.91 | 52.23 | 51.64 | 51.92 | 52.23 | 53.58 |
| 7                | 54.14 | 53.72 | 53.30 | 53.09 | 53.03 | 52.93 | 52.89 | 52.20 | 51.60 | 51.94 | 52.23 | 53.61 |
| 8                | 54.14 | 53.71 | 53.30 | 53.10 | 53.08 | 52.92 | 52.86 | 52.19 | 51.60 | 51.92 | 52.23 | 53.64 |
| 9                | 54.12 | 53.70 | 53.30 | 53.10 | 53.18 | 52.92 | 52.84 | 52.17 | 51.62 | 51.93 | 52.22 | 53.66 |
| 10               | 54.12 | 53.69 | 53.28 | 53.20 | 53.17 | 52.92 | 52.81 | 52.16 | 51.62 | 51.92 | 52.21 | 53.80 |
| 11               | 54.12 | 53.68 | 53.27 | 53.21 | 53.23 | 52.93 | 52.80 | 52.12 | 51.60 | 51.92 | 52.20 | 53.86 |
| 12               | 54.10 | 53.66 | 53.25 | 53.20 | 53.23 | 52.94 | 52.79 | 52.08 | 51.59 | 51.90 | 52.20 | 53.89 |
| 13               | 54.09 | 53.64 | 53.25 | 53.20 | 53.22 | 52.92 | 52.77 | 52.05 | 51.66 | 52.02 | 52.19 | 53.92 |
| 14               | 54.08 | 53.60 | 53.24 | 53.19 | 53.20 | 52.91 | 52.74 | 52.03 | 51.65 | 52.04 | 52.21 | 53.94 |
| 15               | 54.07 | 53.58 | 53.23 | 53.18 | 53.18 | 52.97 | 52.72 | 52.03 | 51.64 | 52.04 | 52.28 | 53.96 |
| 16               | 54.04 | 53.55 | 53.22 | 53.17 | 53.16 | 53.14 | 52.70 | 52.02 | 51.64 | 52.07 | 52.27 | 53.98 |
| 17               | 54.03 | 53.52 | 53.20 | 53.18 | 53.16 | 53.18 | 52.70 | 52.00 | 51.65 | 52.06 | 52.34 | 53.99 |
| 18               | 54.00 | 53.50 | 53.18 | 53.19 | 53.15 | 53.18 | 52.67 | 51.98 | 51.78 | 52.06 | 52.36 | 53.99 |
| 19               | 53.98 | 53.49 | 53.16 | 53.18 | 53.15 | 53.17 | 52.63 | 51.96 | 51.80 | 52.04 | 52.42 | 53.99 |
| 20               | 53.96 | 53.49 | 53.15 | 53.18 | 53.15 | 53.14 | 52.60 | 51.96 | 51.78 | 52.04 | 52.60 | 54.00 |
| 21               | 53.95 | 53.49 | 53.13 | 53.16 | 53.15 | 53.12 | 52.58 | 51.89 | 51.77 | 52.02 | 52.71 | 54.00 |
| 22               | 53.93 | 53.47 | 53.12 | 53.15 | 53.15 | 53.10 | 52.56 | 51.88 | 51.80 | 52.01 | 52.80 | 54.00 |
| 23               | 53.90 | 53.46 | 53.10 | 53.14 | 53.13 | 53.07 | 52.52 | 51.87 | 51.78 | 52.00 | 52.88 | 54.00 |
| 24               | 53.88 | 53.45 | 53.08 | 53.13 | 53.13 | 53.05 | 52.49 | 51.86 | 51.77 | 52.00 | 52.92 | 54.00 |
| 25               | 53.85 | 53.44 | 53.09 | 53.13 | 53.12 | 53.04 | 52.46 | 51.84 | 51.78 | 52.00 | 52.96 | 53.99 |
| 26               | 53.83 | 53.42 | 53.07 | 53.13 | 53.10 | 53.02 | 52.45 | 51.82 | 51.78 | 52.01 | 52.98 | 53.99 |
| 27               | 53.81 | 53.41 | 53.04 | 53.11 | 53.08 | 53.02 | 52.43 | 51.80 | 51.77 | 52.02 | 52.96 | 53.98 |
| 28               | 53.80 | 53.40 | 53.04 | 53.08 | 53.07 | 53.06 | 52.40 | 51.78 | 51.76 | 52.10 | 52.95 | 53.97 |
| 29               | 53.77 | 53.39 | 53.05 | 53.08 | ---   | 53.05 | 52.37 | 51.76 | 51.74 | 52.10 | 53.08 | 53.96 |
| 30               | 53.75 | 53.37 | 53.05 | 53.06 | ---   | 53.03 | 52.36 | 51.72 | 51.73 | 52.16 | 53.10 | 53.95 |
| 31               | 53.73 | ---   | 53.04 | 53.05 | ---   | 53.03 | ---   | 51.70 | ---   | 52.18 | 53.20 | ---   |
| MEAN             | 53.99 | 53.58 | 53.20 | 53.13 | 53.12 | 53.02 | 52.70 | 52.02 | 51.70 | 51.98 | 52.51 | 53.82 |
| MAX              | 54.16 | 53.78 | 53.37 | 53.21 | 53.23 | 53.18 | 53.02 | 52.34 | 51.80 | 52.18 | 53.20 | 54.00 |
| MIN              | 53.73 | 53.37 | 53.04 | 53.05 | 53.03 | 52.91 | 52.36 | 51.70 | 51.59 | 51.72 | 52.19 | 53.32 |
| CAL YR 1985 MEAN | 52.35 |       |       | 54.16 |       | 50.80 |       |       |       |       |       |       |
| WTR YR 1986 MEAN | 52.90 |       |       | 54.16 |       | 51.59 |       |       |       |       |       |       |



## SOUTH FLORIDA

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## KISSIMMEE RIVER BASIN

02268900 LAKE KISSIMMEE NEAR LAKE WALES, FL

LOCATION.--Lat 27°48'14", long 81°11'53", in NW¼ sec.11, T.31 S., R.31 E., Osceola County, Hydrologic Unit 03090101, on right bank at upstream side of lock and control structure 65, 0.1 mi downstream from bridge on State Highway 60, and 25 mi southeast of town of Lake Wales.

SURFACE AREA.--34,760 acres (54.3 mi<sup>2</sup>).

DRAINAGE AREA.--1,607 mi<sup>2</sup> at State Highway 60, includes areas drained by Lake Weohyakapka and Lake Marian.

PERIOD OF RECORD.--August 1929 to current year. Records of elevations prior to October 1960 are unpublished and available in files of the Orlando Subdistrict Office. Prior to March 1942, records for Kissimmee River at outlet of Lake Kissimmee. Since June 11, 1965, records for Kissimmee River at S-65, near Lake Wales (station 02268903).

REVISED RECORDS.--WRD FL 1970: Drainage area. WDR FL-81-2: Surface area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by South Florida Water Management District). Prior to Mar. 16, 1942, nonrecording gage at bridge on State Highway 60 at datum 1.25 ft lower. Mar. 16, 1942, to May 11, 1950, water-stage recorder on southwest shore of lake, and May 11, 1950, to June 10, 1965, water-stage recorder near northwest end of lake, at datum 46.94 ft higher.

REMARKS.--Lake is located between the upper and lower reaches of the Kissimmee River and is the most downstream of the river headwater chain of lakes. Since July 1964 lake elevation partially regulated by operation of structure 65 at lake outlet and by storage releases at several control structures in the river basin upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 56.64 ft, Oct. 12,13, 1953; minimum daily, 42.87 ft, May 25, 1977.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY              | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1                | 51.96 | 52.06 | 52.28 | 52.36 | 51.97 | 51.20 | 50.81 | 50.00 | 49.19 | 49.73 | 50.37 | 51.10 |
| 2                | 51.92 | 52.11 | 52.33 | 52.41 | 51.97 | 51.05 | 50.79 | 49.98 | 49.26 | 49.74 | 50.35 | 51.10 |
| 3                | 51.83 | 52.10 | 52.41 | 52.42 | 51.92 | 50.96 | 50.76 | 50.00 | 49.30 | 49.75 | 50.41 | 51.15 |
| 4                | 51.81 | 52.29 | 52.31 | 52.40 | 51.83 | 50.98 | 50.75 | 49.95 | 49.31 | 49.84 | 50.42 | 51.18 |
| 5                | 51.80 | 52.29 | 52.36 | 52.49 | 51.77 | 51.02 | 50.75 | 49.83 | 49.33 | 49.86 | 50.43 | 51.16 |
| 6                | 51.80 | 52.23 | 52.46 | 52.51 | 51.74 | 51.04 | 50.76 | 49.84 | 49.32 | 49.93 | 50.45 | 51.16 |
| 7                | 51.85 | 52.19 | 52.43 | 52.46 | 51.78 | 51.03 | 50.77 | 49.85 | 49.26 | 49.93 | 50.46 | 51.17 |
| 8                | 51.86 | 52.19 | 52.37 | 52.50 | 51.81 | 51.00 | 50.79 | 49.86 | 49.28 | 49.93 | 50.47 | 51.19 |
| 9                | 51.96 | 52.22 | 52.37 | 52.38 | 51.84 | 50.92 | 50.78 | 49.88 | 49.27 | 49.92 | 50.48 | 51.20 |
| 10               | 51.92 | 52.22 | 52.35 | 52.31 | 51.77 | 50.94 | 50.79 | 49.88 | 49.27 | 49.92 | 50.46 | 51.12 |
| 11               | 51.96 | 52.22 | 52.32 | 52.56 | 51.75 | 51.02 | 50.67 | 49.84 | 49.29 | 49.94 | 50.42 | 51.01 |
| 12               | 51.96 | 52.21 | 52.32 | 52.54 | 51.87 | 50.98 | 50.57 | 49.72 | 49.32 | 49.98 | 50.44 | 51.18 |
| 13               | 51.96 | 52.23 | 52.30 | 52.55 | 51.87 | 50.86 | 50.56 | 49.62 | 49.36 | 50.05 | 50.47 | 51.36 |
| 14               | 51.97 | 52.22 | 52.56 | 52.55 | 51.76 | 50.95 | 50.53 | 49.61 | 49.35 | 50.07 | 50.56 | 51.40 |
| 15               | 51.97 | 52.23 | 52.54 | 52.53 | 51.72 | 51.09 | 50.53 | 49.49 | 49.34 | 50.06 | 50.64 | 51.35 |
| 16               | 51.98 | 52.22 | 52.47 | 52.54 | 51.66 | 51.04 | 50.65 | 49.41 | 49.35 | 50.08 | 50.74 | 51.36 |
| 17               | 51.99 | 52.23 | 52.46 | 52.55 | 51.56 | 51.04 | 50.63 | 49.36 | 49.39 | 50.10 | 50.83 | 51.40 |
| 18               | 52.01 | 52.23 | 52.43 | 52.55 | 51.53 | 50.95 | 50.42 | 49.28 | 49.42 | 50.11 | 50.95 | 51.36 |
| 19               | 51.99 | 52.22 | 52.44 | 52.58 | 51.50 | 50.91 | 50.30 | 49.25 | 49.44 | 50.11 | 50.97 | 51.41 |
| 20               | 52.01 | 52.18 | 52.41 | 52.60 | 51.47 | 51.01 | 50.20 | 49.26 | 49.55 | 50.11 | 50.98 | 51.42 |
| 21               | 52.01 | 52.11 | 52.42 | 52.58 | 51.42 | 51.26 | 50.16 | 49.24 | 49.64 | 50.09 | 51.02 | 51.46 |
| 22               | 52.02 | 52.23 | 52.41 | 52.50 | 51.35 | 51.29 | 50.27 | 49.23 | 49.70 | 50.06 | 51.08 | 51.43 |
| 23               | 52.02 | 52.33 | 52.33 | 52.44 | 51.28 | 51.22 | 50.25 | 49.17 | 49.71 | 50.09 | 51.08 | 51.44 |
| 24               | 52.04 | 52.31 | 52.31 | 52.40 | 51.26 | 51.11 | 50.14 | 49.10 | 49.70 | 50.12 | 51.09 | 51.48 |
| 25               | 52.06 | 52.29 | 52.49 | 52.31 | 51.27 | 50.99 | 50.14 | 49.06 | 49.73 | 50.10 | 51.03 | 51.48 |
| 26               | 52.03 | 52.28 | 52.50 | 52.26 | 51.07 | 50.99 | 50.13 | 49.11 | 49.73 | 50.10 | 50.93 | 51.48 |
| 27               | 51.99 | 52.27 | 52.34 | 52.35 | 50.91 | 51.06 | 50.14 | 49.14 | 49.70 | 50.14 | 50.89 | 51.50 |
| 28               | 52.02 | 52.24 | 52.33 | 52.19 | 51.03 | 50.99 | 50.13 | 49.07 | 49.68 | 50.18 | 51.03 | 51.50 |
| 29               | 52.05 | 52.26 | 52.36 | 51.99 | ---   | 50.93 | 50.10 | 49.01 | 49.65 | 50.21 | 51.18 | 51.49 |
| 30               | 52.02 | 52.25 | 52.38 | 51.99 | ---   | 50.87 | 50.05 | 49.00 | 49.66 | 50.28 | 51.11 | 51.48 |
| 31               | 51.96 | ---   | 52.29 | 52.01 | ---   | 50.81 | ---   | 49.09 | ---   | 50.34 | 51.09 | ---   |
| MEAN             | 51.96 | 52.22 | 52.39 | 52.41 | 51.60 | 51.02 | 50.48 | 49.49 | 49.45 | 50.03 | 50.74 | 51.32 |
| MAX              | 52.06 | 52.33 | 52.56 | 52.60 | 51.97 | 51.29 | 50.81 | 50.00 | 49.73 | 50.34 | 51.18 | 51.50 |
| MIN              | 51.80 | 52.06 | 52.28 | 51.99 | 50.91 | 50.81 | 50.05 | 49.00 | 49.19 | 49.73 | 50.35 | 51.01 |
| CAL YR 1985 MEAN | 50.87 |       |       | 52.56 |       | 49.55 |       |       |       |       |       |       |
| WTR YR 1986 MEAN | 51.09 |       |       | 52.60 |       | 49.00 |       |       |       |       |       |       |



## KISSIMMEE RIVER BASIN

02268903 KISSIMMEE RIVER AT S-65, NEAR LAKE WALES, FL

LOCATION.--Lat 27°48'14", long 81°11'53", in NW¼ sec.11, T.31 S., R.31 E., Osceola County, Hydrologic Unit 03090101, on right bank at upstream side of lock and control structure 65, 0.1 mi downstream from bridge on State Highway 60, and 25 mi southeast of town of Lake Wales.

DRAINAGE AREA.--1,607 mi<sup>2</sup> at State Highway 60, includes areas drained by Lake Weohyakapka and Lake Marian.

PERIOD OF RECORD.--October 1933 to current year. Prior to October 1969, published as Kissimmee River below Lake Kissimmee.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Mar. 21, 1934, nonrecording gage at bridge 0.1 mi upstream at datum 1.25 ft lower. Mar. 21, 1934, to Sept. 30, 1950, water-stage recorder 3.2 mi downstream at datum 1.52 ft lower. Mar. 21, 1934, to Sept. 21, 1966, nonrecording gage at bridge 0.1 mi upstream used as supplementary gage. Oct. 1, 1950 to Sept. 30, 1969, water-stage recorder 3.2 mi downstream at datum 43.48 ft higher. Aug. 17, 1962, to Sept. 30, 1969, auxiliary water-stage recorder 5.1 mi downstream and at downstream side of lock and control structure 65 subsequent to Sept. 30, 1969.

REMARKS.--Records good. Flow regulated by operation of control structure 65 since July 1964 and by storage releases at several structures in headwaters. Discharge computed from relation between discharge, head, and gate openings. Gage heights are published as elevations for Lake Kissimmee (station 02268900) in the section of this report entitled "Lake Elevations."

COOPERATION.--Gate-operation record provided by South Florida Water Management District.

AVERAGE DISCHARGE.--53 years, 1,037 ft<sup>3</sup>/s, 751,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,970 ft<sup>3</sup>/s, Oct. 22, 1969; maximum gage height, 13.16 ft, Oct. 9, 1953, from floodmark, site and datum then in use; maximum reverse flow measured, 1,190 ft<sup>3</sup>/s, Oct. 17, 1956; no flow for many days in most years; minimum gage height, 42.87 ft, May 25, 1977, present site and datum (result of drawdown of Lake Kissimmee).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,880 ft<sup>3</sup>/s, Jan. 19; maximum gage height, 52.81 ft, Dec. 14; no flow for many days; minimum gage height, 48.93 ft, May 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT      | NOV       | DEC  | JAN      | FEB    | MAR      | APR      | MAY   | JUN    | JUL   | AUG      | SEP      |
|-------------|----------|-----------|------|----------|--------|----------|----------|-------|--------|-------|----------|----------|
| 1           | 1500     | .00       | .00  | .00      | 1360   | 1270     | 970      | 762   | .00    | .00   | .00      | 1240     |
| 2           | 2000     | .00       | 8.8  | .00      | 1350   | 1240     | 848      | 764   | .00    | .00   | .00      | 1240     |
| 3           | 2120     | .00       | .00  | .00      | 1750   | 333      | 840      | 763   | .00    | .00   | .00      | 878      |
| 4           | 2120     | .00       | .00  | .00      | 2000   | .00      | 839      | 761   | .00    | .00   | .00      | 625      |
| 5           | 2110     | .00       | .00  | .00      | 2000   | .00      | 841      | 748   | .00    | .00   | .00      | 619      |
| 6           | 2120     | 9.8       | .00  | 426      | 1950   | .00      | 839      | 747   | .00    | .00   | .00      | 627      |
| 7           | 761      | .00       | .00  | 706      | 1940   | .00      | 845      | 744   | .00    | .00   | .00      | 627      |
| 8           | .00      | .00       | .00  | 1130     | 1990   | .00      | 1030     | 751   | .00    | .00   | .00      | 628      |
| 9           | .00      | .00       | .00  | 2190     | 2010   | .00      | 1030     | 954   | 108    | .00   | .00      | 992      |
| 10          | .00      | .00       | .00  | 2720     | 2440   | .00      | 1200     | 1070  | 163    | .00   | .00      | 1940     |
| 11          | .00      | .00       | .00  | 2780     | 2660   | .00      | 1570     | 1070  | 161    | .00   | .00      | 2400     |
| 12          | .00      | .00       | .00  | 2810     | 2680   | .00      | 1750     | 1360  | 56     | .00   | .00      | 1710     |
| 13          | .00      | .00       | .00  | 2830     | 2680   | .00      | 1750     | 1340  | .00    | .00   | .00      | 1260     |
| 14          | .00      | .00       | .00  | 2840     | 2650   | 369      | 1750     | 1240  | .00    | .00   | .00      | 1270     |
| 15          | .00      | .00       | .00  | 2830     | 2640   | 943      | 620      | 1410  | .00    | .00   | .00      | 1690     |
| 16          | .00      | .00       | .00  | 2830     | 2630   | 2010     | .00      | 1500  | .00    | .00   | .00      | 1540     |
| 17          | .00      | .00       | .00  | 2840     | 2610   | 2470     | 631      | 1490  | .00    | .00   | .00      | 1300     |
| 18          | .00      | 5.9       | .00  | 2840     | 2600   | 2450     | 1730     | 1470  | .00    | .00   | .00      | 1280     |
| 19          | .00      | .00       | .00  | 2840     | 2580   | 2440     | 1700     | 1280  | .00    | .00   | 725      | 897      |
| 20          | .00      | .00       | .00  | 2850     | 2580   | 2460     | 1670     | 1160  | .00    | .00   | 1220     | 645      |
| 21          | .00      | .00       | .00  | 2840     | 2570   | 2530     | 1310     | 1160  | .00    | .00   | 1240     | 647      |
| 22          | .00      | .00       | .00  | 2830     | 2560   | 2550     | 1140     | 1170  | .00    | .00   | 1400     | 646      |
| 23          | .00      | .00       | .00  | 2810     | 2540   | 2530     | 1130     | 1160  | .00    | .00   | 1480     | 257      |
| 24          | .00      | .00       | .00  | 2780     | 2530   | 2490     | 1110     | 1140  | .00    | .00   | 1490     | .00      |
| 25          | .00      | .00       | .00  | 2780     | 2530   | 2460     | 754      | 1130  | .00    | .00   | 1710     | .00      |
| 26          | .00      | .00       | .00  | 2770     | 2480   | 1670     | 560      | 711   | .00    | .00   | 1830     | .00      |
| 27          | .00      | 8.7       | .00  | 2790     | 2440   | 1620     | 556      | 480   | .00    | .00   | 1820     | .00      |
| 28          | .00      | .00       | .00  | 2760     | 1490   | 1850     | 698      | 751   | .00    | .00   | 645      | .00      |
| 29          | .00      | .00       | .00  | 2720     | ---    | 1840     | 774      | 933   | .00    | .00   | 753      | .00      |
| 30          | .00      | .00       | .00  | 1890     | ---    | 1830     | 772      | 929   | .00    | .00   | 1260     | .00      |
| 31          | .00      | ---       | .00  | 1360     | ---    | 1420     | ---      | 326   | ---    | .00   | 1240     | ---      |
| TOTAL       | 12731.00 | 24.40     | 8.80 | 63792.00 | 64240  | 38775.00 | 31257.00 | 31274 | 488.00 | .00   | 16813.00 | 24958.00 |
| MEAN        | 411      | .81       | .28  | 2058     | 2294   | 1251     | 1042     | 1009  | 16.3   | .00   | 542      | 832      |
| MAX         | 2120     | 9.8       | 8.8  | 2850     | 2680   | 2550     | 1750     | 1500  | 163    | .00   | 1830     | 2400     |
| MIN         | .00      | .00       | .00  | .00      | 1350   | .00      | .00      | 326   | .00    | .00   | .00      | .00      |
| AC-FT       | 25250    | 48        | 17   | 126500   | 127400 | 76910    | 62000    | 62030 | 968    | .00   | 33350    | 49500    |
| CAL YR 1985 | TOTAL    | 100286.20 |      | MEAN     | 275    | MAX      | 4450     | MIN   | .00    | AC-FT | 198900   |          |
| WTR YR 1986 | TOTAL    | 284361.20 |      | MEAN     | 779    | MAX      | 2850     | MIN   | .00    | AC-FT | 564000   |          |



## SOUTH FLORIDA

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## KISSIMMEE RIVER BASIN

02268904 KISSIMMEE RIVER BELOW S-65, NEAR LAKE WALES, FL

LOCATION.--Lat 27°48'14", long 81°11'53" in NW¼ sec.11, T.31 S., R.31 E., Osceola County, Hydrologic Unit 03090101, on right bank at downstream side of lock and control structure 65, 0.1 mi downstream from bridge on State Highway 60, and 25 mi southeast of town of Lake Wales.

DRAINAGE AREA.--1,607 mi<sup>2</sup>, at State Highway 60, includes areas drained by Lake Weohyakapka and Lake Marian.

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). This is the auxiliary gage for station 02268903 located at upstream side of lock and control structure.

REMARKS.--Gage heights partially regulated by operation of structure 65 upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily gage height, 51.44 ft, Oct. 10, 1969; minimum daily, 41.55 ft, Apr. 4, 1977 (result of drawdown of Lake Kissimmee).

GAGE HEIGHT, IN FEET ABOVE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 46.42 | 46.35 | 46.40 | 46.36 | 46.28 | 46.28 | 46.24 | 46.35 | 46.28 | 46.32 | 46.36 | 46.38 |
| 2           | 46.39 | 46.24 | 46.28 | 46.34 | 46.33 | 46.31 | 46.33 | 46.31 | 46.25 | 46.38 | 46.31 | 46.34 |
| 3           | 46.42 | 46.32 | 46.29 | 46.30 | 46.36 | 46.27 | 46.25 | 46.34 | 46.22 | 46.40 | 46.34 | 46.26 |
| 4           | 46.38 | 46.41 | 46.32 | 46.34 | 46.37 | 46.26 | 46.31 | 46.31 | 46.19 | 46.47 | 46.36 | 46.36 |
| 5           | 46.43 | 46.27 | 46.34 | 46.38 | 46.33 | 46.28 | 46.33 | 46.32 | 46.14 | 46.32 | 46.27 | 46.44 |
| 6           | 46.42 | 46.33 | 46.26 | 46.34 | 46.54 | 46.29 | 46.32 | 46.34 | 46.11 | 46.22 | 46.36 | 46.32 |
| 7           | 46.30 | 46.42 | 46.30 | 46.32 | 46.64 | 46.29 | 46.35 | 46.38 | 46.10 | 46.25 | 46.33 | 46.33 |
| 8           | 46.28 | 46.41 | 46.33 | 46.35 | 46.40 | 46.28 | 46.30 | 46.31 | 46.06 | 46.31 | 46.31 | 46.33 |
| 9           | 46.30 | 46.32 | 46.29 | 46.37 | 46.30 | 46.28 | 46.53 | 46.37 | 46.13 | 46.25 | 46.35 | 46.50 |
| 10          | 46.33 | 46.32 | 46.31 | 46.62 | 46.26 | 46.33 | 46.38 | 46.34 | 46.31 | 46.28 | 46.31 | 46.63 |
| 11          | 46.31 | 46.31 | 46.33 | 46.61 | 46.32 | 46.34 | 46.34 | 46.32 | 46.41 | 46.32 | 46.34 | 46.59 |
| 12          | 46.27 | 46.30 | 46.34 | 46.48 | 46.36 | 46.26 | 46.38 | 46.36 | 46.44 | 46.33 | 46.34 | 46.54 |
| 13          | 46.32 | 46.33 | 46.33 | 46.38 | 46.33 | 46.31 | 46.35 | 46.36 | 46.43 | 46.37 | 46.38 | 46.48 |
| 14          | 46.33 | 46.35 | 46.30 | 46.34 | 46.37 | 46.35 | 46.33 | 46.31 | 46.41 | 46.32 | 46.40 | 46.43 |
| 15          | 46.19 | 46.36 | 46.09 | 46.36 | 46.37 | 46.37 | 46.26 | 46.32 | 46.33 | 46.25 | 46.57 | 46.31 |
| 16          | 46.22 | 46.36 | 46.10 | 46.37 | 46.35 | 46.43 | 46.25 | 46.34 | 46.44 | 46.32 | 46.16 | 46.24 |
| 17          | 46.26 | 46.36 | 46.13 | 46.36 | 46.33 | 46.36 | 46.22 | 46.33 | 46.30 | 46.33 | 46.30 | 46.23 |
| 18          | 46.30 | 46.30 | 46.15 | 46.39 | 46.35 | 46.35 | 46.33 | 46.33 | 46.34 | 46.31 | 46.55 | 46.29 |
| 19          | 46.29 | 46.29 | 46.16 | 46.39 | 46.36 | 46.34 | 46.34 | 46.32 | 46.28 | 46.31 | 46.54 | 46.32 |
| 20          | 46.26 | 46.32 | 46.18 | 46.37 | 46.35 | 46.36 | 46.37 | 46.36 | 46.41 | 46.31 | 46.40 | 46.31 |
| 21          | 46.28 | 46.36 | 46.19 | 46.36 | 46.33 | 46.32 | 46.31 | 46.35 | 46.66 | 46.35 | 46.30 | 46.30 |
| 22          | 46.29 | 46.36 | 46.21 | 46.33 | 46.32 | 46.28 | 46.25 | 46.30 | 46.41 | 46.45 | 46.29 | 46.30 |
| 23          | 46.30 | 46.31 | 46.23 | 46.36 | 46.32 | 46.28 | 46.33 | 46.32 | 46.56 | 46.37 | 46.40 | 46.25 |
| 24          | 46.29 | 46.30 | 46.25 | 46.46 | 46.33 | 46.33 | 46.31 | 46.32 | 46.28 | 46.39 | 46.31 | 46.36 |
| 25          | 46.30 | 46.31 | 46.25 | 46.37 | 46.34 | 46.31 | 46.30 | 46.35 | 46.35 | 46.28 | 46.34 | 46.21 |
| 26          | 46.32 | 46.28 | 46.25 | 46.37 | 46.34 | 46.31 | 46.26 | 46.29 | 46.27 | 46.35 | 46.36 | 46.34 |
| 27          | 46.32 | 46.27 | 46.26 | 46.35 | 46.33 | 46.28 | 46.34 | 46.30 | 46.31 | 46.29 | 46.36 | 46.43 |
| 28          | 46.33 | 46.31 | 46.29 | 46.32 | 46.27 | 46.29 | 46.33 | 46.35 | 46.27 | 46.35 | 46.33 | 46.39 |
| 29          | 46.33 | 46.33 | 46.30 | 46.30 | ---   | 46.30 | 46.34 | 46.33 | 46.39 | 46.41 | 46.39 | 46.33 |
| 30          | 46.34 | 46.35 | 46.33 | 46.32 | ---   | 46.29 | 46.31 | 46.34 | 46.33 | 46.37 | 46.23 | 46.37 |
| 31          | 46.36 | ---   | 46.33 | 46.30 | ---   | 46.31 | ---   | 46.33 | ---   | 46.36 | 46.33 | ---   |
| MEAN        | 46.32 | 46.33 | 46.26 | 46.37 | 46.35 | 46.31 | 46.32 | 46.33 | 46.31 | 46.33 | 46.35 | 46.36 |
| MAX         | 46.43 | 46.42 | 46.40 | 46.62 | 46.64 | 46.43 | 46.53 | 46.38 | 46.66 | 46.47 | 46.57 | 46.63 |
| MIN         | 46.19 | 46.24 | 46.09 | 46.30 | 46.26 | 46.26 | 46.22 | 46.29 | 46.06 | 46.22 | 46.16 | 46.21 |
| CAL YR 1985 | MEAN  | 46.33 | MAX   | 47.02 | MIN   | 46.09 |       |       |       |       |       |       |
| WTR YR 1986 | MEAN  | 46.33 | MAX   | 46.66 | MIN   | 46.06 |       |       |       |       |       |       |

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02269600 LAKE ARBUCKLE NEAR AVON PARK, FL

LOCATION.--Lat 27°39'55", long 81°22'38", in SW¼ sec. 25, T.32 S., R.29 E., Polk County, Hydrologic Unit 03090101, on U.S. Air Force recreation pier on south shore of lake, 9.6 mi northeast of Avon Park.

SURFACE AREA.--3,787 acres (5.92 mi<sup>2</sup>).

DRAINAGE AREA.--170 mi<sup>2</sup>.

PERIOD OF RECORD.--December 1941 to current year. Records of elevations prior to October 1960 are unpublished and available in files of the Orlando Subdistrict Office.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. June 27, 1945, to Nov. 15, 1950, May 9, 1956, to June 15, 1962, and May 11, 1967, to Dec. 11, 1975, nonrecording gage at site 500 ft northwest near head of Arbuckle Creek at datum 51.53 ft higher.

REMARKS.--Lake is the most downstream of the Arbuckle Creek headwater lakes.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 58.3 ft, Sept. 24, 1948, from floodmark; minimum daily, 51.15 ft, June 10, 1985.

EXTREMES OUTSIDE PERIOD OF RECORD.--An elevation of 58.7 ft, was reached in 1926 and 1928, from information by local residents.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY              | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1                | 54.61 | 53.94 | 53.36 | 52.94 | 52.87 | 52.80 | 52.87 | 52.21 | 51.67 | 52.62 | 53.88 | 53.95 |
| 2                | 54.58 | 53.93 | 53.36 | 52.96 | 52.87 | 52.71 | 52.85 | 52.20 | 51.67 | 52.63 | 53.86 | 53.94 |
| 3                | 54.54 | 53.90 | 53.34 | 52.97 | 52.85 | 52.68 | 52.83 | 52.18 | 51.71 | 52.65 | 53.85 | 53.94 |
| 4                | 54.56 | 53.95 | 53.30 | 52.95 | 52.84 | 52.66 | 52.80 | 52.14 | 51.74 | 52.73 | 53.85 | 53.92 |
| 5                | 54.68 | 53.90 | 53.31 | 53.00 | 52.84 | 52.66 | 52.78 | 52.09 | 51.74 | 52.79 | 53.86 | 53.90 |
| 6                | 54.71 | 53.86 | 53.33 | 53.00 | 52.83 | 52.65 | 52.76 | 52.07 | 51.72 | 52.96 | 53.84 | 53.91 |
| 7                | 54.70 | 53.82 | 53.29 | 52.99 | 52.83 | 52.63 | 52.75 | 52.07 | 51.69 | 53.24 | 53.82 | 53.89 |
| 8                | 54.67 | 53.80 | 53.27 | 53.01 | 52.83 | 52.60 | 52.74 | 52.06 | 51.67 | 53.41 | 53.80 | 53.88 |
| 9                | 54.65 | 53.78 | 53.25 | 52.99 | 52.86 | 52.56 | 52.73 | 52.05 | 51.67 | 53.51 | 53.78 | 53.92 |
| 10               | 54.61 | 53.76 | 53.23 | 53.03 | 52.85 | 52.59 | 52.70 | 52.03 | 51.68 | 53.57 | 53.74 | 54.15 |
| 11               | 54.58 | 53.74 | 53.21 | 53.11 | 52.87 | 52.64 | 52.67 | 51.99 | 51.69 | 53.66 | 53.70 | 54.31 |
| 12               | 54.55 | 53.72 | 53.21 | 53.08 | 52.91 | 52.62 | 52.63 | 51.97 | 51.70 | 53.73 | 53.71 | 54.40 |
| 13               | 54.52 | 53.71 | 53.19 | 53.08 | 52.90 | 52.57 | 52.65 | 51.94 | 51.73 | 53.74 | 53.75 | 54.43 |
| 14               | 54.50 | 53.69 | 53.26 | 53.04 | 52.86 | 52.64 | 52.62 | 51.93 | 51.76 | 53.74 | 53.75 | 54.44 |
| 15               | 54.47 | 53.67 | 53.20 | 53.03 | 52.86 | 52.74 | 52.60 | 51.90 | 51.81 | 53.73 | 53.74 | 54.45 |
| 16               | 54.44 | 53.64 | 53.18 | 53.02 | 52.84 | 52.84 | 52.60 | 51.89 | 51.86 | 53.72 | 53.73 | 54.45 |
| 17               | 54.40 | 53.62 | 53.16 | 53.02 | 52.83 | 52.89 | 52.56 | 51.86 | 51.92 | 53.69 | 53.74 | 54.43 |
| 18               | 54.37 | 53.59 | 53.13 | 53.02 | 52.84 | 52.88 | 52.51 | 51.85 | 51.95 | 53.67 | 53.80 | 54.41 |
| 19               | 54.34 | 53.57 | 53.12 | 53.03 | 52.85 | 52.88 | 52.49 | 51.84 | 51.95 | 53.65 | 53.82 | 54.40 |
| 20               | 54.30 | 53.53 | 53.10 | 53.02 | 52.85 | 52.93 | 52.45 | 51.84 | 51.96 | 53.62 | 53.85 | 54.37 |
| 21               | 54.27 | 53.50 | 53.09 | 52.99 | 52.84 | 52.98 | 52.44 | 51.86 | 52.02 | 53.58 | 53.89 | 54.36 |
| 22               | 54.23 | 53.52 | 53.06 | 52.97 | 52.83 | 52.96 | 52.45 | 51.90 | 52.10 | 53.66 | 53.90 | 54.32 |
| 23               | 54.19 | 53.52 | 53.02 | 52.97 | 52.83 | 52.91 | 52.40 | 51.87 | 52.11 | 53.71 | 53.89 | 54.30 |
| 24               | 54.16 | 53.49 | 53.01 | 52.97 | 52.83 | 52.88 | 52.36 | 51.84 | 52.19 | 53.82 | 53.89 | 54.28 |
| 25               | 54.13 | 53.46 | 53.05 | 52.95 | 52.84 | 52.84 | 52.34 | 51.82 | 52.35 | 53.81 | 53.88 | 54.24 |
| 26               | 54.09 | 53.44 | 53.00 | 52.96 | 52.77 | 52.84 | 52.32 | 51.79 | 52.43 | 53.82 | 53.86 | 54.22 |
| 27               | 54.04 | 53.42 | 52.96 | 53.02 | 52.75 | 52.89 | 52.31 | 51.76 | 52.45 | 53.84 | 53.84 | 54.20 |
| 28               | 54.03 | 53.39 | 52.95 | 52.93 | 52.76 | 52.89 | 52.29 | 51.74 | 52.47 | 53.83 | 53.85 | 54.16 |
| 29               | 54.00 | 53.38 | 52.96 | 52.89 | ---   | 52.89 | 52.28 | 51.73 | 52.52 | 53.82 | 53.93 | 54.13 |
| 30               | 53.97 | 53.36 | 52.94 | 52.88 | ---   | 52.89 | 52.24 | 51.71 | 52.58 | 53.86 | 53.95 | 54.10 |
| 31               | 53.93 | ---   | 52.91 | 52.88 | ---   | 52.88 | ---   | 51.69 | ---   | 53.88 | 53.95 | ---   |
| MEAN             | 54.38 | 53.65 | 53.15 | 52.99 | 52.84 | 52.77 | 52.57 | 51.93 | 51.95 | 53.51 | 53.83 | 54.19 |
| MAX              | 54.71 | 53.95 | 53.36 | 53.11 | 52.91 | 52.98 | 52.87 | 52.21 | 52.58 | 53.88 | 53.95 | 54.45 |
| MIN              | 53.93 | 53.36 | 52.91 | 52.88 | 52.75 | 52.56 | 52.24 | 51.69 | 51.67 | 52.62 | 53.70 | 53.88 |
| CAL YR 1985 MEAN |       | 52.94 |       | MAX   | 55.17 |       | MIN   | 51.15 |       |       |       |       |
| WTR YR 1986 MEAN |       | 53.15 |       | MAX   | 54.71 |       | MIN   | 51.67 |       |       |       |       |

## SOUTH FLORIDA

81

## KISSIMMEE RIVER BASIN

02270500 ARBUCKLE CREEK NEAR DE SOTO CITY, FL

LOCATION.--Lat 27°26'32", long 81°17'51", in SE¼ sec.11, T.35 S., R.30 E., Highlands County, Hydrologic Unit 03090101, on right bank 20 ft downstream from bridge on U.S. Highway 98, 1.3 mi upstream from mouth, and 7 mi east of De Soto City.

DRAINAGE AREA.--379 mi<sup>2</sup>, excludes area drained by Lake Weohyakapka and includes area drained by Lake Sebring.

PERIOD OF RECORD.--June 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 35.51 ft above National Geodetic Vertical Datum of 1929. Since June 7, 1967 auxiliary water-stage recorder at site 1.3 mi upstream. See WDR FL-82-2 for history of changes prior to June 7, 1967.

REMARKS.--Records fair. Records include small diversions into Lake Arbuckle from Lake Weohyakapka through Blue Jordan Swamp.

AVERAGE DISCHARGE.--47 years, 323 ft<sup>3</sup>/s, 234,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,380 ft<sup>3</sup>/s, Sept. 23, 1948, gage height, 8.71 ft, from rating curve extended above 5,300 ft<sup>3</sup>/s; minimum daily discharge, 0.55 ft<sup>3</sup>/s, June 6, 1985; minimum gage height, 0.14 ft, May 11, 1962, estimated, result of channel work upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,310 ft<sup>3</sup>/s, Oct. 4, gage height, 5.05 ft; minimum daily discharge, 2.3 ft<sup>3</sup>/s, May 28; minimum gage height, 1.60 ft, June 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT   | NOV      | DEC  | JAN  | FEB  | MAR  | APR  | MAY    | JUN    | JUL    | AUG   | SEP   |
|-------------|-------|----------|------|------|------|------|------|--------|--------|--------|-------|-------|
| 1           | 427   | 265      | 139  | 96   | 103  | 29   | 108  | 64     | 3.5    | 224    | 259   | 134   |
| 2           | 396   | 244      | 141  | 104  | 102  | 56   | 96   | 51     | 29     | 227    | 259   | 141   |
| 3           | 473   | 236      | 131  | 109  | 115  | 70   | 90   | 17     | 28     | 228    | 251   | 111   |
| 4           | 1230  | 284      | 125  | 112  | 100  | 77   | 126  | 12     | 26     | 244    | 248   | 104   |
| 5           | 1050  | 282      | 126  | 107  | 94   | 34   | 83   | 30     | 24     | 240    | 225   | 156   |
| 6           | 771   | 273      | 138  | 122  | 96   | 55   | 77   | 46     | 24     | 248    | 209   | 305   |
| 7           | 615   | 266      | 152  | 131  | 92   | 50   | 69   | 45     | 24     | 256    | 198   | 322   |
| 8           | 555   | 259      | 130  | 121  | 95   | 48   | 64   | 29     | 27     | 282    | 183   | 265   |
| 9           | 463   | 246      | 124  | 150  | 94   | 53   | 65   | 62     | 22     | 298    | 170   | 279   |
| 10          | 478   | 233      | 121  | 202  | 99   | 84   | 66   | 93     | 21     | 310    | 164   | 532   |
| 11          | 460   | 218      | 113  | 166  | 118  | 103  | 66   | 71     | 23     | 318    | 160   | 674   |
| 12          | 440   | 226      | 104  | 184  | 83   | 92   | 67   | 68     | 29     | 320    | 155   | 722   |
| 13          | 427   | 197      | 110  | 187  | 64   | 94   | 79   | 71     | 34     | 324    | 157   | 692   |
| 14          | 508   | 190      | 86   | 161  | 107  | 107  | 65   | 73     | 40     | 316    | 139   | 653   |
| 15          | 461   | 186      | 106  | 148  | 88   | 132  | 75   | 61     | 42     | 306    | 168   | 631   |
| 16          | 443   | 168      | 88   | 148  | 84   | 200  | 74   | 50     | 44     | 294    | 136   | 619   |
| 17          | 488   | 160      | 106  | 141  | 89   | 171  | 77   | 40     | 52     | 276    | 148   | 572   |
| 18          | 435   | 157      | 101  | 136  | 102  | 172  | 78   | 36     | 89     | 254    | 184   | 525   |
| 19          | 417   | 161      | 99   | 133  | 71   | 152  | 79   | 31     | 132    | 244    | 301   | 454   |
| 20          | 398   | 149      | 103  | 127  | 68   | 180  | 78   | 49     | 98     | 234    | 364   | 425   |
| 21          | 381   | 157      | 93   | 126  | 79   | 197  | 76   | 41     | 96     | 222    | 369   | 389   |
| 22          | 365   | 171      | 102  | 123  | 74   | 207  | 78   | 45     | 101    | 220    | 328   | 362   |
| 23          | 342   | 146      | 107  | 133  | 82   | 221  | 75   | 19     | 88     | 205    | 256   | 340   |
| 24          | 317   | 141      | 99   | 115  | 72   | 191  | 72   | 11     | 96     | 216    | 239   | 298   |
| 25          | 357   | 139      | 87   | 117  | 39   | 181  | 74   | 7.4    | 148    | 220    | 240   | 269   |
| 26          | 283   | 139      | 103  | 117  | 79   | 172  | 74   | 3.3    | 182    | 228    | 209   | 252   |
| 27          | 263   | 144      | 92   | 99   | 111  | 190  | 75   | 3.8    | 203    | 229    | 193   | 240   |
| 28          | 249   | 132      | 91   | 118  | 35   | 160  | 70   | 2.3    | 209    | 228    | 186   | 210   |
| 29          | 225   | 124      | 84   | 112  | ---  | 139  | 59   | 2.7    | 216    | 241    | 141   | 193   |
| 30          | 206   | 124      | 89   | 109  | ---  | 147  | 64   | 2.5    | 224    | 246    | 134   | 191   |
| 31          | 195   | ---      | 95   | 107  | ---  | 120  | ---  | 2.9    | ---    | 261    | 139   | ---   |
| TOTAL       | 14118 | 5817     | 3385 | 4061 | 2435 | 3884 | 2299 | 1139.9 | 2374.5 | 7959   | 6512  | 11060 |
| MEAN        | 455   | 194      | 109  | 131  | 87.0 | 125  | 76.6 | 36.8   | 79.1   | 257    | 210   | 369   |
| MAX         | 1230  | 284      | 152  | 202  | 118  | 221  | 126  | 93     | 224    | 324    | 369   | 722   |
| MIN         | 195   | 124      | 84   | 96   | 35   | 29   | 59   | 2.3    | 3.5    | 205    | 134   | 104   |
| AC-FT       | 28000 | 11540    | 6710 | 8050 | 4830 | 7700 | 4560 | 2260   | 4710   | 15790  | 12920 | 21940 |
| CAL YR 1985 | TOTAL | 65133.68 | MEAN | 178  | MAX  | 1230 | MIN  | .55    | AC-FT  | 129200 |       |       |
| WTR YR 1986 | TOTAL | 65044.4  | MEAN | 178  | MAX  | 1230 | MIN  | 2.3    | AC-FT  | 129000 |       |       |

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

## 02271700 LAKE ISTOKPOGA NEAR DE SOTO CITY, FL

LOCATION.--Lat 27°19'55", long 81°15'05", in sec.19 or 20, T.36 S., R.31 E., Highlands County, Hydrologic Unit 03090101, 33 ft from right bank, 350 ft upstream from control structure 68 at Lake Istokpoga, 7.5 mi northeast of town of Lake Placid, and 12.2 mi southeast of De Soto City.

SURFACE AREA.--27,500 acres (43.0 mi<sup>2</sup>).

DRAINAGE AREA.--607 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1936 to current year. Since July 7, 1965, records for Canal 41A at S-68 at Lake Istokpoga, near Lake Placid (station 02273200). Records of elevations prior to October 1960 are unpublished and available in files of the Orlando Subdistrict Office.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by South Florida Water Management District). Prior to May 19, 1937, nonrecording gage at datum 40.54 ft higher and May 19, 1937, to Aug. 17, 1942 at datum 38.54 ft higher, at site on northwest shore of lake 4 mi southwest of mouth of Arbuckle Creek. Aug. 20, 1942, to July 6, 1965, water-stage recorder near mouth of Arbuckle Creek at datum 34.07 ft higher. July 7, 1965, to Nov. 27, 1973, water-stage recorder at present site at datum 30.00 ft higher.

REMARKS.--Lake controlled by dam with removable stoplogs in Istokpoga Canal from June 1949 to July 1962. Since July 21, 1962, lake controlled by operation of structure 68 on Canal 41A on southeast shore of lake. Dam on Istokpoga Canal is still in place. Flow occurs at times in this canal.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 42.9 ft, estimated, Sept. 17, 1945; minimum daily, 35.40 ft, May 30, 1962.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 39.48 | 39.66 | 39.63 | 39.45 | 39.41 | 39.32 | 38.90 | 38.07 | 37.52 | 38.02 | 38.45 | 38.74 |
| 2           | 39.50 | 39.68 | 39.64 | 39.46 | 39.41 | 39.20 | 38.86 | 38.07 | 37.53 | 38.05 | 38.45 | 38.75 |
| 3           | 39.54 | 39.67 | 39.68 | 39.46 | 39.39 | 39.15 | 38.84 | 38.05 | 37.52 | 38.09 | 38.48 | 38.76 |
| 4           | 39.64 | 39.78 | 39.61 | 39.45 | 39.37 | 39.13 | 38.82 | 38.01 | 37.50 | 38.10 | 38.50 | 38.75 |
| 5           | 39.67 | 39.73 | 39.65 | 39.51 | 39.36 | 39.14 | 38.82 | 37.94 | 37.48 | 38.15 | 38.53 | 38.78 |
| 6           | 39.70 | 39.67 | 39.71 | 39.51 | 39.35 | 39.14 | 38.81 | 37.94 | 37.45 | 38.22 | 38.52 | 38.84 |
| 7           | 39.69 | 39.65 | 39.66 | 39.48 | 39.36 | 39.11 | 38.80 | 37.97 | 37.40 | 38.27 | 38.51 | 38.84 |
| 8           | 39.60 | 39.66 | 39.63 | 39.52 | 39.36 | 39.08 | 38.81 | 37.95 | 37.39 | 38.26 | 38.50 | 38.87 |
| 9           | 39.58 | 39.68 | 39.62 | 39.50 | 39.37 | 39.01 | 38.82 | 38.02 | 37.38 | 38.26 | 38.49 | 38.90 |
| 10          | 39.53 | 39.69 | 39.61 | 39.51 | 39.36 | 39.13 | 38.78 | 38.04 | 37.38 | 38.26 | 38.49 | 39.01 |
| 11          | 39.55 | 39.70 | 39.60 | 39.63 | 39.37 | 39.25 | 38.72 | 38.00 | 37.37 | 38.27 | 38.47 | 39.03 |
| 12          | 39.56 | 39.70 | 39.62 | 39.58 | 39.41 | 39.24 | 38.66 | 37.96 | 37.38 | 38.30 | 38.50 | 39.07 |
| 13          | 39.59 | 39.70 | 39.61 | 39.59 | 39.40 | 39.19 | 38.65 | 37.93 | 37.42 | 38.36 | 38.54 | 39.11 |
| 14          | 39.61 | 39.69 | 39.73 | 39.54 | 39.33 | 39.30 | 38.62 | 37.93 | 37.46 | 38.37 | 38.57 | 39.14 |
| 15          | 39.62 | 39.68 | 39.68 | 39.52 | 39.33 | 39.36 | 38.58 | 37.88 | 37.51 | 38.34 | 38.60 | 39.17 |
| 16          | 39.64 | 39.67 | 39.65 | 39.52 | 39.31 | 39.36 | 38.58 | 37.86 | 37.53 | 38.31 | 38.66 | 39.20 |
| 17          | 39.65 | 39.67 | 39.64 | 39.52 | 39.29 | 39.33 | 38.55 | 37.83 | 37.58 | 38.29 | 38.67 | 39.20 |
| 18          | 39.66 | 39.67 | 39.62 | 39.51 | 39.28 | 39.22 | 38.49 | 37.80 | 37.65 | 38.28 | 38.67 | 39.23 |
| 19          | 39.65 | 39.62 | 39.61 | 39.54 | 39.29 | 39.16 | 38.45 | 37.77 | 37.67 | 38.29 | 38.67 | 39.25 |
| 20          | 39.66 | 39.58 | 39.58 | 39.54 | 39.30 | 39.16 | 38.39 | 37.74 | 37.70 | 38.31 | 38.69 | 39.24 |
| 21          | 39.66 | 39.56 | 39.58 | 39.52 | 39.28 | 39.23 | 38.38 | 37.75 | 37.71 | 38.28 | 38.73 | 39.29 |
| 22          | 39.65 | 39.65 | 39.55 | 39.50 | 39.28 | 39.17 | 38.41 | 37.87 | 37.74 | 38.27 | 38.75 | 39.31 |
| 23          | 39.64 | 39.68 | 39.51 | 39.50 | 39.28 | 39.04 | 38.36 | 37.81 | 37.75 | 38.30 | 38.74 | 39.34 |
| 24          | 39.65 | 39.67 | 39.50 | 39.51 | 39.32 | 38.94 | 38.30 | 37.79 | 37.77 | 38.32 | 38.72 | 39.34 |
| 25          | 39.65 | 39.66 | 39.59 | 39.49 | 39.35 | 38.90 | 38.26 | 37.76 | 37.81 | 38.31 | 38.70 | 39.35 |
| 26          | 39.62 | 39.65 | 39.55 | 39.53 | 39.25 | 38.90 | 38.23 | 37.72 | 37.83 | 38.31 | 38.71 | 39.36 |
| 27          | 39.60 | 39.64 | 39.49 | 39.61 | 39.20 | 38.95 | 38.23 | 37.68 | 37.85 | 38.34 | 38.72 | 39.38 |
| 28          | 39.61 | 39.62 | 39.48 | 39.49 | 39.24 | 38.97 | 38.21 | 37.65 | 37.87 | 38.35 | 38.71 | 39.39 |
| 29          | 39.62 | 39.62 | 39.49 | 39.44 | ---   | 38.96 | 38.20 | 37.63 | 37.90 | 38.36 | 38.72 | 39.38 |
| 30          | 39.60 | 39.62 | 39.48 | 39.42 | ---   | 38.96 | 38.13 | 37.59 | 38.01 | 38.40 | 38.72 | 39.37 |
| 31          | 39.56 | ---   | 39.45 | 39.42 | ---   | 38.95 | ---   | 37.57 | ---   | 38.43 | 38.73 | ---   |
| MEAN        | 39.61 | 39.66 | 39.60 | 39.51 | 39.33 | 39.13 | 38.56 | 37.86 | 37.60 | 38.27 | 38.61 | 39.11 |
| MAX         | 39.70 | 39.78 | 39.73 | 39.63 | 39.41 | 39.36 | 38.90 | 38.07 | 38.01 | 38.43 | 38.75 | 39.39 |
| MIN         | 39.48 | 39.56 | 39.45 | 39.42 | 39.20 | 38.90 | 38.13 | 37.57 | 37.37 | 38.02 | 38.45 | 38.74 |
| CAL YR 1985 | MEAN  | 38.33 | MAX   | 39.78 | MIN   | 36.82 |       |       |       |       |       |       |
| WTR YR 1986 | MEAN  | 38.90 | MAX   | 39.78 | MIN   | 37.37 |       |       |       |       |       |       |



## KISSIMMEE RIVER BASIN

02273000 KISSIMMEE RIVER AT S-65E, NEAR OKEECHOBEE, FL  
(National stream-quality accounting network station)

LOCATION.--Lat 27°13'32", long 80°57'46", in NE¼ sec.30, T.37 S., R.34 E., Okeechobee County, Hydrologic Unit 03090101, at upstream side of lock and control structure 65E, 1.8 mi downstream from State Highway 70, 8.2 mi upstream from mouth, and 8.5 mi west of Okeechobee.

DRAINAGE AREA.--Indeterminate.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1928 to September 1962, October 1962 to September 1964 (elevations only), October 1964 to current year. Prior to October 1964, published as Kissimmee River near Okeechobee. Monthly discharges only for some periods, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Apr. 28, 1949, nonrecording gage, and Apr. 28, 1949, to Sept. 30, 1964, water-stage recorder, 1.8 mi upstream at datum 1.37 ft lower. Auxiliary gage at downstream side of lock and control structure 65E.

REMARKS.--Records good. Flow completely regulated by operation of structure 65E beginning in October 1964. Records since October 1964 do not include diversions, since July 21, 1962, from Lake Istokpoga through control structure 68 on Canal 41A. Discharge computed from relation between discharge, head, and gate openings.

COOPERATION.--Gate-opening record provided by South Florida Water Management District.

AVERAGE DISCHARGE.--34 years (water years 1929-62), 2,188 ft<sup>3</sup>/s, 1,585,000 acre-ft/yr; 22 years (water years 1965-86), 1,332 ft<sup>3</sup>/s, 965,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,900 ft<sup>3</sup>/s, Oct. 3, 1969; maximum gage height, 27.00 ft, present datum, Oct. 14, 1953; no flow for many days in some years since 1965; minimum gage height observed, 12.33 ft, present datum, June 3, 1962.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1928, resulting from hurricane, reached a stage of 28.9 ft, present datum, discharge, 20,000 ft<sup>3</sup>/s, from rating curve extended above 14,000 ft<sup>3</sup>/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,130 ft<sup>3</sup>/s, Aug. 18; maximum gage height, 21.89 ft, Aug. 18; no flow for many days; minimum gage height, 20.07 ft, Sept. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT   | NOV       | DEC     | JAN    | FEB    | MAR      | APR   | MAY   | JUN      | JUL   | AUG    | SEP   |
|-------------|-------|-----------|---------|--------|--------|----------|-------|-------|----------|-------|--------|-------|
| 1           | 1720  | 55        | 42      | 23     | 1320   | 1350     | 921   | 296   | 47       | 1370  | 982    | 1330  |
| 2           | 2010  | 42        | 56      | 117    | 1170   | 993      | 686   | 449   | 63       | 1550  | 800    | 1360  |
| 3           | 2300  | 71        | 58      | 149    | 1510   | 669      | 815   | 432   | 77       | 1620  | 579    | 1400  |
| 4           | 2420  | 85        | 43      | 86     | 1800   | 112      | 693   | 558   | 46       | 1910  | 718    | 461   |
| 5           | 2490  | 85        | 96      | 88     | 1800   | 129      | 420   | 436   | 46       | 1820  | 918    | 800   |
| 6           | 2390  | 85        | 397     | 331    | 1610   | 41       | 557   | 468   | 20       | 2430  | 554    | 1110  |
| 7           | 2100  | 175       | 113     | 682    | 1630   | .00      | 760   | 509   | .00      | 2880  | 532    | 886   |
| 8           | 449   | 178       | 129     | 1240   | 1650   | .00      | 666   | 530   | .00      | 2300  | 949    | 814   |
| 9           | 435   | 113       | 172     | 1370   | 1860   | .00      | 528   | 696   | .00      | 1940  | 675    | 1250  |
| 10          | 439   | 185       | 83      | 1980   | 1930   | .00      | 938   | 927   | .00      | 1320  | 388    | 2690  |
| 11          | 358   | 194       | 72      | 2480   | 2200   | 86       | 1130  | 746   | .00      | 1020  | 452    | 3010  |
| 12          | 292   | 166       | 85      | 2400   | 2280   | 165      | 1150  | 840   | .00      | 841   | 333    | 3400  |
| 13          | 290   | 183       | 85      | 2390   | 2270   | 69       | 1290  | 934   | .00      | 1130  | 494    | 3500  |
| 14          | 498   | 154       | 87      | 2520   | 2180   | 303      | 1540  | 1140  | .00      | 917   | 385    | 2950  |
| 15          | 309   | 69        | 38      | 2530   | 2290   | 1070     | 841   | 1050  | 20       | 552   | 765    | 2680  |
| 16          | 134   | 42        | 25      | 2400   | 2310   | 1910     | 43    | 1020  | 164      | 480   | 1630   | 2700  |
| 17          | 108   | 42        | 87      | 2310   | 2260   | 2000     | 106   | 1110  | 85       | 307   | 1410   | 2450  |
| 18          | 196   | 94        | 141     | 2430   | 2240   | 2200     | 1040  | 1090  | 295      | 391   | 2300   | 2150  |
| 19          | 233   | 161       | 139     | 2610   | 2280   | 2220     | 1250  | 900   | 411      | 390   | 1980   | 1360  |
| 20          | 142   | 70        | 35      | 2560   | 2320   | 2350     | 1250  | 928   | 233      | 188   | 2420   | 1660  |
| 21          | 125   | 14        | 22      | 2560   | 2270   | 2240     | 1260  | 950   | 381      | 73    | 2460   | 1170  |
| 22          | 54    | 88        | 6.0     | 2410   | 2170   | 2190     | 837   | 1150  | 1320     | 371   | 2120   | 1160  |
| 23          | 47    | 99        | .00     | 2490   | 2320   | 2120     | 706   | 911   | 1240     | 639   | 2420   | 1020  |
| 24          | 29    | 26        | 58      | 2450   | 2280   | 2200     | 792   | 838   | 942      | 496   | 1900   | 422   |
| 25          | 26    | 29        | 58      | 2350   | 2160   | 2150     | 537   | 771   | 1360     | 607   | 2100   | 247   |
| 26          | 57    | 43        | 44      | 2460   | 2050   | 1860     | 383   | 547   | 1730     | 427   | 2170   | 328   |
| 27          | 83    | 43        | 31      | 2500   | 2070   | 1440     | 358   | 391   | 2110     | 597   | 1960   | 295   |
| 28          | 83    | 42        | .00     | 2480   | 1760   | 1610     | 415   | 353   | 1770     | 661   | 1630   | 198   |
| 29          | 83    | 42        | 62      | 2440   | ---    | 1570     | 380   | 573   | 1270     | 757   | 778    | 179   |
| 30          | 71    | 42        | 72      | 2210   | ---    | 1550     | 439   | 606   | 1490     | 1040  | 1370   | 142   |
| 31          | 15    | ---       | 43      | 1540   | ---    | 1460     | ---   | 277   | ---      | 1150  | 1440   | ---   |
| TOTAL       | 19986 | 2717      | 2379.00 | 56586  | 55990  | 36057.00 | 22731 | 22426 | 15120.00 | 32174 | 39612  | 43122 |
| MEAN        | 645   | 90.6      | 76.7    | 1825   | 2000   | 1163     | 758   | 723   | 504      | 1038  | 1278   | 1437  |
| MAX         | 2490  | 194       | 397     | 2610   | 2320   | 2350     | 1540  | 1150  | 2110     | 2880  | 2460   | 3500  |
| MIN         | 15    | 14        | .00     | 23     | 1170   | .00      | 43    | 277   | .00      | 73    | 333    | 142   |
| AC-FT       | 39640 | 5390      | 4720    | 112200 | 111100 | 71520    | 45090 | 44480 | 29990    | 63820 | 78570  | 85530 |
| CAL YR 1985 | TOTAL | 149705.00 |         | MEAN   | 410    | MAX      | 5150  | MIN   | .00      | AC-FT | 296900 |       |
| WTR YR 1986 | TOTAL | 348900.00 |         | MEAN   | 956    | MAX      | 3500  | MIN   | .00      | AC-FT | 692000 |       |



## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02273000 KISSIMMEE RIVER AT S-65E, NEAR OKEECHOBEE, FL  
(National stream-quality accounting network station)

GAGE HEIGHT, IN FEET ABOVE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 21.06 | 21.09 | 21.01 | 21.02 | 21.05 | 21.13 | 21.09 | 21.21 | 21.08 | 21.01 | 21.06 | 21.00 |
| 2           | 21.08 | 21.08 | 21.08 | 21.09 | 21.07 | 20.97 | 21.11 | 21.07 | 21.14 | 21.18 | 21.06 | 21.11 |
| 3           | 21.09 | 21.11 | 21.03 | 21.02 | 21.04 | 21.05 | 21.11 | 21.03 | 21.07 | 21.17 | 21.08 | 20.99 |
| 4           | 21.07 | 21.12 | 21.02 | 21.01 | 21.04 | 21.14 | 20.98 | 21.11 | 21.07 | 21.00 | 21.12 | 20.86 |
| 5           | 21.11 | 21.09 | 21.08 | 21.06 | 21.10 | 21.13 | 21.11 | 21.05 | 21.07 | 20.95 | 21.13 | 21.18 |
| 6           | 21.07 | 21.13 | 21.26 | 21.08 | 21.04 | 20.94 | 21.23 | 21.12 | 21.06 | 20.95 | 21.08 | 21.12 |
| 7           | 21.02 | 21.15 | 21.00 | 21.14 | 21.12 | 20.92 | 21.10 | 21.11 | 21.03 | 20.95 | 21.16 | 21.09 |
| 8           | 21.06 | 21.11 | 21.09 | 21.08 | 21.11 | 20.91 | 21.12 | 21.02 | 21.01 | 21.00 | 21.18 | 20.98 |
| 9           | 21.08 | 21.05 | 21.08 | 21.04 | 21.06 | 20.90 | 20.98 | 21.07 | 20.99 | 21.00 | 21.07 | 21.20 |
| 10          | 21.10 | 21.04 | 21.01 | 21.13 | 21.12 | 21.05 | 21.06 | 21.04 | 20.93 | 21.00 | 21.04 | 21.28 |
| 11          | 21.06 | 21.02 | 21.04 | 21.01 | 21.11 | 21.21 | 20.97 | 21.08 | 20.87 | 21.05 | 21.06 | 20.96 |
| 12          | 21.11 | 21.08 | 21.06 | 21.06 | 21.02 | 21.09 | 21.00 | 21.08 | 20.84 | 21.05 | 21.11 | 21.29 |
| 13          | 21.06 | 21.03 | 21.03 | 21.07 | 21.00 | 21.07 | 21.08 | 21.11 | 20.88 | 21.05 | 21.12 | 20.94 |
| 14          | 21.06 | 20.96 | 21.02 | 21.09 | 21.02 | 21.11 | 21.08 | 21.14 | 20.90 | 21.05 | 21.06 | 21.12 |
| 15          | 21.12 | 20.95 | 20.93 | 21.03 | 21.14 | 21.04 | 21.07 | 21.03 | 21.08 | 21.07 | 21.13 | 20.88 |
| 16          | 21.10 | 20.95 | 20.96 | 21.07 | 21.03 | 21.02 | 21.21 | 20.98 | 21.15 | 21.10 | 21.21 | 20.85 |
| 17          | 21.06 | 20.99 | 21.10 | 21.05 | 21.06 | 21.11 | 21.09 | 21.11 | 21.13 | 21.10 | 21.11 | 21.01 |
| 18          | 21.09 | 21.13 | 21.05 | 21.11 | 21.03 | 20.94 | 21.11 | 21.09 | 21.14 | 21.11 | 21.22 | 20.97 |
| 19          | 21.05 | 21.05 | 21.04 | 21.10 | 21.09 | 21.05 | 21.02 | 21.08 | 21.04 | 21.11 | 20.87 | 20.84 |
| 20          | 21.01 | 21.03 | 21.01 | 21.06 | 21.02 | 21.16 | 21.10 | 21.13 | 21.24 | 21.10 | 20.91 | 21.31 |
| 21          | 21.07 | 20.95 | 20.98 | 21.08 | 20.97 | 21.03 | 21.10 | 21.04 | 21.10 | 21.11 | 21.01 | 20.87 |
| 22          | 21.02 | 21.05 | 20.90 | 21.00 | 21.07 | 21.09 | 21.03 | 21.17 | 21.20 | 21.15 | 21.03 | 21.31 |
| 23          | 21.06 | 21.01 | 20.95 | 21.05 | 21.13 | 21.07 | 21.09 | 21.07 | 21.02 | 21.13 | 21.08 | 20.98 |
| 24          | 21.01 | 20.99 | 21.02 | 21.05 | 21.03 | 21.10 | 21.08 | 21.07 | 21.00 | 21.11 | 20.93 | 20.69 |
| 25          | 21.07 | 21.09 | 21.08 | 21.04 | 20.99 | 21.04 | 21.12 | 21.01 | 21.01 | 21.12 | 21.04 | 21.12 |
| 26          | 21.06 | 21.09 | 21.03 | 21.08 | 21.04 | 21.03 | 21.16 | 21.06 | 21.02 | 21.12 | 21.02 | 21.13 |
| 27          | 20.98 | 21.07 | 20.98 | 21.06 | 21.16 | 21.04 | 21.11 | 21.04 | 21.02 | 21.11 | 20.95 | 21.15 |
| 28          | 21.02 | 21.04 | 21.02 | 21.11 | 21.13 | 21.02 | 21.08 | 21.10 | 21.07 | 21.11 | 20.94 | 21.18 |
| 29          | 21.03 | 21.00 | 21.16 | 21.05 | ---   | 21.01 | 21.08 | 21.03 | 21.10 | 21.14 | 20.93 | 21.01 |
| 30          | 21.06 | 20.97 | 21.04 | 21.04 | ---   | 21.07 | 21.27 | 21.03 | 21.00 | 21.13 | 21.12 | 21.08 |
| 31          | 21.05 | ---   | 21.04 | 21.09 | ---   | 21.07 | ---   | 21.12 | ---   | 21.10 | 21.02 | ---   |
| MEAN        | 21.06 | 21.05 | 21.04 | 21.06 | 21.06 | 21.05 | 21.09 | 21.08 | 21.04 | 21.08 | 21.06 | 21.05 |
| MAX         | 21.12 | 21.15 | 21.26 | 21.14 | 21.16 | 21.21 | 21.27 | 21.21 | 21.24 | 21.18 | 21.22 | 21.31 |
| MIN         | 20.98 | 20.95 | 20.90 | 21.00 | 20.97 | 20.90 | 20.97 | 20.98 | 20.84 | 20.95 | 20.87 | 20.69 |
| CAL YR 1985 | MEAN  | 21.00 | MAX   | 21.29 | MIN   | 20.31 |       |       |       |       |       |       |
| WTR YR 1986 | MEAN  | 21.06 | MAX   | 21.31 | MIN   | 20.69 |       |       |       |       |       |       |

## SOUTH FLORIDA

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## KISSIMMEE RIVER BASIN

02273000 KISSIMMEE RIVER AT S-65E, NEAR OKEECHOBEE, FL--Continued  
(National stream-quality accounting network station)

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1940, 1960-62, 1967 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE  | TIME | GAGE<br>HEIGHT<br>(FEET<br>ABOVE<br>DATUM)<br>(00065) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS)<br>(00061) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | TUR-<br>BID-<br>ITY<br>(NTU)<br>(00076) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3)<br>(00900) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT FLD<br>MG/L AS<br>CACO3<br>(00902) | CALCIUM<br>DIS-<br>SOLVED<br>AS CA<br>(00915) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG)<br>(00925) |
|-------|------|-------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------|-------------------------------------------------|-----------------------------------------|------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------|
| OCT   |      |                                                       |                                                            |                                                              |                                           |                                                 |                                         |                                                |                                                   |                                                                              |                                               |                                                                 |
| 30... | 1220 | 22.10                                                 | 88                                                         | 165                                                          | 7.00                                      | 27.0                                            | 0.70                                    | 2.9                                            | 52                                                | 25                                                                           | 15                                            | 3.4                                                             |
| FEB   |      |                                                       |                                                            |                                                              |                                           |                                                 |                                         |                                                |                                                   |                                                                              |                                               |                                                                 |
| 05... | 1009 | 21.02                                                 | 1900                                                       | 172                                                          | --                                        | 19.0                                            | 2.2                                     | 8.0                                            | 46                                                | 16                                                                           | 12                                            | 3.8                                                             |
| APR   |      |                                                       |                                                            |                                                              |                                           |                                                 |                                         |                                                |                                                   |                                                                              |                                               |                                                                 |
| 02... | 1024 | 21.10                                                 | 760                                                        | 176                                                          | 7.40                                      | 24.0                                            | 1.3                                     | 8.8                                            | 50                                                | 0                                                                            | 14                                            | 3.7                                                             |
| MAY   |      |                                                       |                                                            |                                                              |                                           |                                                 |                                         |                                                |                                                   |                                                                              |                                               |                                                                 |
| 27... | 1330 | 21.03                                                 | 265                                                        | 202                                                          | 7.00                                      | 26.0                                            | --                                      | 5.0                                            | --                                                | --                                                                           | --                                            | --                                                              |
| JUL   |      |                                                       |                                                            |                                                              |                                           |                                                 |                                         |                                                |                                                   |                                                                              |                                               |                                                                 |
| 29... | 1310 | 21.10                                                 | 676                                                        | 158                                                          | 6.50                                      | 29.0                                            | 1.3                                     | 1.4                                            | 48                                                | 14                                                                           | 14                                            | 3.2                                                             |
| AUG   |      |                                                       |                                                            |                                                              |                                           |                                                 |                                         |                                                |                                                   |                                                                              |                                               |                                                                 |
| 18... | 1417 | 20.23                                                 | 2360                                                       | 153                                                          | 7.10                                      | 32.0                                            | 0.50                                    | 3.6                                            | 54                                                | 17                                                                           | 16                                            | 3.4                                                             |

| DATE  | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930) | PERCENT<br>SODIUM<br>(00932) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO<br>(00931) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935) | ALKA-<br>LINITY<br>WH WAT<br>TOTAL<br>FIELD<br>MG/L AS<br>CACO3<br>(00410) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F)<br>(00950) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SIO2)<br>(00955) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L)<br>(70301) | NITRO-<br>GEN,<br>NITRATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00618) |
|-------|---------------------------------------------------------|------------------------------|----------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| OCT   |                                                         |                              |                                                    |                                                                |                                                                            |                                                          |                                                                |                                                               |                                                              |                                                                               |                                                                                |                                                                          |
| 30... | 13                                                      | 34                           | 0.8                                                | 2.1                                                            | 27                                                                         | 20                                                       | 22                                                             | 0.10                                                          | 4.1                                                          | 113                                                                           | 97                                                                             | 0.180                                                                    |
| FEB   |                                                         |                              |                                                    |                                                                |                                                                            |                                                          |                                                                |                                                               |                                                              |                                                                               |                                                                                |                                                                          |
| 05... | 14                                                      | 39                           | 0.9                                                | 2.3                                                            | --                                                                         | 13                                                       | 22                                                             | 0.20                                                          | 0.5                                                          | 115                                                                           | 86                                                                             | --                                                                       |
| APR   |                                                         |                              |                                                    |                                                                |                                                                            |                                                          |                                                                |                                                               |                                                              |                                                                               |                                                                                |                                                                          |
| 02... | 14                                                      | 36                           | 0.9                                                | 2.5                                                            | 52                                                                         | 14                                                       | 23                                                             | 0.20                                                          | 0.5                                                          | 121                                                                           | 100                                                                            | --                                                                       |
| MAY   |                                                         |                              |                                                    |                                                                |                                                                            |                                                          |                                                                |                                                               |                                                              |                                                                               |                                                                                |                                                                          |
| 27... | --                                                      | --                           | --                                                 | --                                                             | 39                                                                         | --                                                       | --                                                             | --                                                            | --                                                           | --                                                                            | --                                                                             | --                                                                       |
| JUL   |                                                         |                              |                                                    |                                                                |                                                                            |                                                          |                                                                |                                                               |                                                              |                                                                               |                                                                                |                                                                          |
| 29... | 11                                                      | 32                           | 0.7                                                | 3.0                                                            | 34                                                                         | 18                                                       | 19                                                             | <0.10                                                         | 5.3                                                          | 136                                                                           | 95                                                                             | --                                                                       |
| AUG   |                                                         |                              |                                                    |                                                                |                                                                            |                                                          |                                                                |                                                               |                                                              |                                                                               |                                                                                |                                                                          |
| 18... | 12                                                      | 31                           | 0.7                                                | 2.9                                                            | --                                                                         | 18                                                       | 20                                                             | 0.10                                                          | 6.5                                                          | 135                                                                           | 100                                                                            | 0.090                                                                    |

| DATE  | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS NH4)<br>(71846) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00605) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00666) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS PO4)<br>(71886) | PHOS-<br>PHORUS,<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) |
|-------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------------|
| OCT   |                                                                          |                                                                          |                                                                 |                                                                          |                                                                            |                                                                 |                                                                               |                                                        |                                                                 |                                                         |                                                                           |
| 30... | 0.110                                                                    | 0.290                                                                    | 0.020                                                           | 0.030                                                                    | 0.04                                                                       | 1.5                                                             | 1.5                                                                           | 0.130                                                  | 0.120                                                           | 0.40                                                    | 0.090                                                                     |
| FEB   |                                                                          |                                                                          |                                                                 |                                                                          |                                                                            |                                                                 |                                                                               |                                                        |                                                                 |                                                         |                                                                           |
| 05... | <0.010                                                                   | <0.100                                                                   | 0.010                                                           | 0.010                                                                    | 0.01                                                                       | 1.3                                                             | 1.3                                                                           | 0.030                                                  | <0.010                                                          | 0.09                                                    | <0.010                                                                    |
| APR   |                                                                          |                                                                          |                                                                 |                                                                          |                                                                            |                                                                 |                                                                               |                                                        |                                                                 |                                                         |                                                                           |
| 02... | <0.010                                                                   | <0.100                                                                   | 0.020                                                           | 0.020                                                                    | 0.03                                                                       | 1.1                                                             | 1.1                                                                           | 0.040                                                  | 0.020                                                           | 0.12                                                    | 0.010                                                                     |
| MAY   |                                                                          |                                                                          |                                                                 |                                                                          |                                                                            |                                                                 |                                                                               |                                                        |                                                                 |                                                         |                                                                           |
| 27... | 0.010                                                                    | <0.100                                                                   | 0.050                                                           | 0.130                                                                    | 0.17                                                                       | 1.0                                                             | 1.1                                                                           | 0.060                                                  | 0.010                                                           | 0.18                                                    | 0.010                                                                     |
| JUL   |                                                                          |                                                                          |                                                                 |                                                                          |                                                                            |                                                                 |                                                                               |                                                        |                                                                 |                                                         |                                                                           |
| 29... | 0.010                                                                    | <0.100                                                                   | 0.160                                                           | 0.170                                                                    | 0.22                                                                       | 1.4                                                             | 1.6                                                                           | 0.390                                                  | 0.250                                                           | 1.2                                                     | 0.290                                                                     |
| AUG   |                                                                          |                                                                          |                                                                 |                                                                          |                                                                            |                                                                 |                                                                               |                                                        |                                                                 |                                                         |                                                                           |
| 18... | 0.010                                                                    | 0.100                                                                    | 0.120                                                           | 0.140                                                                    | 0.18                                                                       | 1.5                                                             | 1.6                                                                           | 0.330                                                  | 0.280                                                           | 1.0                                                     | 0.230                                                                     |

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02273000 KISSIMMEE RIVER AT S-65E, NEAR OKEECHOBEE, FL--Continued  
(National stream-quality accounting network station)

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL)<br>(01106) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS)<br>(01000) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA)<br>(01005) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE)<br>(01010) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD)<br>(01025) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR)<br>(01030) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO)<br>(01035) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU)<br>(01040) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE)<br>(01046) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB)<br>(01049) | LITHIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS LI)<br>(01130) |
|--------------|----------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------|
| OCT<br>30... | 20                                                             | <1                                                      | 24                                                      | <0.5                                                            | <1                                                      | <1                                                             | <3                                                      | 1                                                       | 210                                                   | <1                                                    | <4                                                      |
| APR<br>02... | 20                                                             | <1                                                      | 25                                                      | <0.5                                                            | <1                                                      | <1                                                             | <3                                                      | 2                                                       | 110                                                   | 3                                                     | <4                                                      |
| AUG<br>18... | 70                                                             | <1                                                      | 22                                                      | <0.5                                                            | <1                                                      | 3                                                              | <3                                                      | 3                                                       | 320                                                   | <5                                                    | <4                                                      |

| DATE         | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN)<br>(01056) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG)<br>(71890) | MOLYB-<br>DENUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MO)<br>(01060) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI)<br>(01065) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE)<br>(01145) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG)<br>(01075) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR)<br>(01080) | VANA-<br>DIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS V)<br>(01085) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN)<br>(01090) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM<br>(70331) |
|--------------|-----------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------|
| OCT<br>30... | 10                                                              | <0.1                                                    | <10                                                              | 4                                                       | <1                                                             | <1                                                      | 210                                                             | <6                                                            | 8                                                     | 2                                                    | 50                                                                       |
| FEB<br>05... | --                                                              | --                                                      | --                                                               | --                                                      | --                                                             | --                                                      | --                                                              | --                                                            | --                                                    | 2                                                    | 50                                                                       |
| APR<br>02... | 3                                                               | 0.1                                                     | <10                                                              | 2                                                       | <1                                                             | <1                                                      | 120                                                             | <6                                                            | 23                                                    | 4                                                    | 50                                                                       |
| MAY<br>27... | --                                                              | --                                                      | --                                                               | --                                                      | --                                                             | --                                                      | --                                                              | --                                                            | --                                                    | 2                                                    | 50                                                                       |
| JUL<br>29... | --                                                              | --                                                      | --                                                               | --                                                      | --                                                             | --                                                      | --                                                              | --                                                            | --                                                    | 4                                                    | 50                                                                       |
| AUG<br>18... | 12                                                              | <0.1                                                    | <10                                                              | 3                                                       | <1                                                             | <1                                                      | 290                                                             | <6                                                            | 15                                                    | 3                                                    | 67                                                                       |

## SOUTH FLORIDA

87

## KISSIMMEE RIVER BASIN

02273001 KISSIMMEE RIVER BELOW S-65E, NEAR OKEECHOBEE, FL

LOCATION.--Lat 27°13'32", long 80°57'46", in NE¼ sec.30, T.37 S., R.34 E., Okeechobee County, Hydrologic Unit 03090101, at downstream side of lock and control structure 65E, 1.8 mi downstream from State Highway 70, 8.2 mi upstream from mouth, and 8.5 mi west of Okeechobee.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). This is the auxiliary gage for station 02273000 at upstream side of lock and control structure.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily gage height, 18.18 ft, Feb. 28, 1983; minimum daily, 9.72 ft, July 28, 1981.

GAGE HEIGHT, IN FEET ABOVE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY              | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1                | 14.20 | 14.29 | 13.93 | 13.63 | 13.91 | 13.58 | 14.03 | 13.42 | 12.82 | 13.41 | 14.14 | 14.77 |
| 2                | 14.22 | 14.17 | 13.81 | 13.61 | 13.88 | 13.79 | 14.07 | 13.34 | 12.78 | 13.49 | 14.16 | 14.76 |
| 3                | 14.32 | 14.19 | 13.57 | 13.63 | 13.90 | 13.92 | 14.10 | 13.24 | 12.74 | 13.56 | 14.14 | 14.74 |
| 4                | 14.29 | 14.00 | 13.72 | 13.65 | 13.91 | 13.92 | 14.09 | 13.20 | 12.67 | 13.61 | 14.16 | 14.74 |
| 5                | 14.30 | 13.91 | 13.80 | 13.46 | 13.94 | 13.83 | 14.04 | 13.22 | 12.63 | 13.69 | 14.16 | 14.74 |
| 6                | 14.21 | 14.00 | 13.61 | 13.48 | 13.99 | 13.79 | 14.02 | 13.27 | 12.70 | 13.86 | 14.14 | 14.84 |
| 7                | 14.08 | 14.03 | 13.70 | 13.65 | 13.92 | 13.85 | 14.02 | 13.21 | 12.71 | 13.70 | 14.18 | 14.88 |
| 8                | 14.20 | 14.03 | 13.81 | 13.60 | 13.94 | 13.73 | 14.01 | 13.19 | 12.72 | 13.71 | 14.15 | 14.87 |
| 9                | 14.10 | 14.01 | 13.80 | 13.68 | 13.92 | 13.89 | 13.93 | 13.09 | 12.70 | 13.76 | 14.19 | 14.86 |
| 10               | 14.25 | 14.01 | 13.85 | 13.88 | 13.96 | 13.94 | 13.82 | 13.05 | 12.71 | 13.80 | 14.20 | 14.96 |
| 11               | 14.25 | 14.03 | 13.89 | 13.57 | 13.94 | 14.03 | 13.81 | 13.08 | 12.66 | 13.81 | 14.23 | 14.98 |
| 12               | 14.25 | 14.04 | 13.89 | 13.68 | 13.74 | 14.13 | 13.85 | 13.13 | 12.70 | 13.86 | 14.21 | 14.98 |
| 13               | 14.27 | 14.01 | 13.93 | 13.65 | 13.60 | 14.24 | 13.87 | 13.16 | 12.70 | 13.90 | 14.28 | 14.97 |
| 14               | 14.26 | 13.99 | 13.54 | 13.68 | 13.80 | 14.12 | 13.77 | 13.05 | 12.78 | 13.91 | 14.30 | 15.02 |
| 15               | 14.25 | 13.98 | 13.50 | 13.79 | 13.81 | 14.07 | 13.83 | 13.04 | 12.88 | 13.98 | 14.30 | 14.99 |
| 16               | 14.19 | 13.95 | 13.60 | 13.81 | 13.79 | 14.19 | 13.75 | 12.99 | 12.87 | 13.99 | 14.32 | 14.99 |
| 17               | 14.21 | 13.94 | 13.53 | 13.86 | 13.89 | 14.09 | 13.64 | 13.05 | 12.81 | 13.96 | 14.38 | 14.98 |
| 18               | 14.16 | 13.85 | 13.59 | 13.93 | 13.97 | 14.24 | 13.62 | 13.06 | 12.84 | 13.96 | 14.46 | 14.98 |
| 19               | 14.17 | 13.99 | 13.56 | 13.89 | 13.97 | 14.25 | 13.61 | 13.04 | 12.91 | 13.97 | 14.54 | 14.93 |
| 20               | 14.21 | 14.08 | 13.63 | 13.84 | 13.95 | 14.24 | 13.74 | 12.99 | 13.04 | 13.95 | 14.59 | 15.00 |
| 21               | 14.20 | 14.19 | 13.58 | 13.81 | 13.96 | 13.77 | 13.75 | 13.12 | 12.98 | 13.95 | 14.52 | 15.00 |
| 22               | 14.20 | 14.05 | 13.60 | 13.88 | 13.94 | 13.60 | 13.49 | 13.01 | 13.13 | 13.96 | 14.53 | 15.05 |
| 23               | 14.18 | 13.87 | 13.69 | 13.90 | 13.96 | 13.64 | 13.42 | 13.07 | 13.15 | 13.97 | 14.54 | 15.05 |
| 24               | 14.14 | 13.91 | 13.74 | 13.86 | 13.88 | 13.92 | 13.47 | 13.01 | 13.21 | 13.97 | 14.58 | 15.07 |
| 25               | 14.08 | 13.90 | 13.50 | 13.93 | 13.65 | 14.03 | 13.51 | 13.01 | 13.21 | 14.03 | 14.61 | 15.04 |
| 26               | 14.14 | 13.91 | 13.38 | 13.83 | 13.81 | 14.08 | 13.55 | 13.00 | 13.21 | 14.03 | 14.64 | 15.05 |
| 27               | 14.19 | 13.92 | 13.56 | 13.64 | 14.00 | 14.03 | 13.50 | 13.00 | 13.26 | 14.05 | 14.72 | 15.02 |
| 28               | 14.20 | 13.96 | 13.60 | 13.75 | 13.89 | 13.97 | 13.44 | 12.95 | 13.33 | 14.12 | 14.76 | 15.01 |
| 29               | 14.20 | 13.93 | 13.61 | 13.85 | ---   | 14.01 | 13.39 | 12.87 | 13.40 | 14.18 | 14.79 | 15.01 |
| 30               | 14.28 | 13.94 | 13.53 | 13.88 | ---   | 14.05 | 13.38 | 12.86 | 13.42 | 14.13 | 14.76 | 15.02 |
| 31               | 14.44 | ---   | 13.65 | 13.85 | ---   | 14.03 | ---   | 12.81 | ---   | 14.09 | 14.75 | ---   |
| MEAN             | 14.21 | 14.00 | 13.67 | 13.75 | 13.89 | 13.97 | 13.75 | 13.08 | 12.92 | 13.88 | 14.40 | 14.94 |
| MAX              | 14.44 | 14.29 | 13.93 | 13.93 | 14.00 | 14.25 | 14.10 | 13.42 | 13.42 | 14.18 | 14.79 | 15.07 |
| MIN              | 14.08 | 13.85 | 13.38 | 13.46 | 13.60 | 13.58 | 13.38 | 12.81 | 12.63 | 13.41 | 14.14 | 14.74 |
| CAL YR 1985 MEAN | 13.29 |       |       | 15.02 |       | 11.64 |       |       |       |       |       |       |
| WTR YR 1986 MEAN | 13.87 |       |       | 15.07 |       |       |       |       |       |       |       |       |

## SOUTH FLORIDA

## KISSIMMEE RIVER BASIN

02273200 CANAL 41A AT S-68 AT LAKE ISTOKPOGA, NEAR LAKE PLACID, FL

LOCATION.--Lat 27°19'55", long 81°15'05", in sec.19 or 20, T.36 S., R.31 E., Highlands County, Hydrologic Unit 03090101, 33 ft from right bank, 350 ft upstream from control structure 68 at Lake Istokpoga, and 7.5 mi northeast of town of Lake Placid.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1963 to current year. Prior to October 1968, published as "above S-68."

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Prior to Nov. 28, 1973, at same site at datum 30.00 ft higher.

REMARKS.--Records good. Flow completely regulated by operation of control structure 68. Records do not include diversions through stoplog control structure on Istokpoga Canal. Gage heights are published as elevations for Lake Istokpoga (station 02271700) in the section of this report entitled "Lake Elevations."

COOPERATION.--Gate-operation record provided by South Florida Water Management District.

AVERAGE DISCHARGE.--22 years (water years 1964-86), 257 ft<sup>3</sup>/s, 186,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,500 ft<sup>3</sup>/s, Sept. 6, 1965; maximum gage height, 40.23 ft, present datum, Dec. 10, 1969, Sept. 3, 1979, affected by wind; no flow for many days each year; minimum gage height, 35.82 ft, present datum, June 17, 1971, affected by wind.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,060 ft<sup>3</sup>/s, Mar. 18; maximum gage height, 39.90 ft, Dec. 14; no flow for many days; minimum gage height, 37.19 ft, June 14, affected by wind.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT     | NOV      | DEC     | JAN  | FEB  | MAR     | APR     | MAY     | JUN     | JUL     | AUG     | SEP    |
|-------------|---------|----------|---------|------|------|---------|---------|---------|---------|---------|---------|--------|
| 1           | .00     | 96       | 150     | 90   | 90   | 90      | 450     | 240     | 150     | .00     | .00     | .00    |
| 2           | .00     | 150      | 150     | 90   | 90   | 90      | 450     | 182     | 150     | .00     | .00     | .00    |
| 3           | .00     | 150      | 150     | 90   | 90   | 90      | 156     | 150     | 150     | .00     | .00     | .00    |
| 4           | 289     | 344      | 150     | 90   | 90   | 90      | .00     | 150     | 150     | .00     | .00     | .00    |
| 5           | 450     | 450      | 150     | 90   | 90   | 90      | .00     | 150     | 150     | .00     | 96      | .00    |
| 6           | 450     | 256      | 150     | 90   | 90   | 90      | .00     | 150     | 150     | .00     | 150     | .00    |
| 7           | 731     | 54       | 150     | 90   | 90   | 90      | .00     | 150     | 150     | 300     | 150     | .00    |
| 8           | 900     | .00      | 150     | 90   | 90   | 90      | 97      | 111     | 150     | 450     | 52      | .00    |
| 9           | 900     | .00      | 54      | 90   | 90   | 90      | 247     | 90      | 54      | 450     | .00     | .00    |
| 10          | 319     | .00      | .00     | 90   | 90   | 90      | 300     | 90      | .00     | 450     | .00     | .00    |
| 11          | .00     | .00      | .00     | 90   | 90   | 90      | 300     | 90      | .00     | 161     | .00     | .00    |
| 12          | .00     | 97       | .00     | 90   | 90   | 90      | 300     | 90      | .00     | .00     | .00     | .00    |
| 13          | .00     | 150      | .00     | 90   | 90   | 90      | 300     | 90      | .00     | .00     | .00     | .00    |
| 14          | .00     | 150      | .00     | 90   | 90   | 90      | 300     | 90      | .00     | 287     | .00     | .00    |
| 15          | .00     | 150      | .00     | 90   | 90   | 322     | 300     | 127     | .00     | 450     | .00     | .00    |
| 16          | .00     | 150      | 95      | 90   | 90   | 450     | 202     | 150     | .00     | 450     | .00     | 97     |
| 17          | 97      | 150      | 150     | 90   | 90   | 1020    | 150     | 150     | .00     | 450     | .00     | 150    |
| 18          | 150     | 150      | 150     | 90   | 90   | 1060    | 150     | 150     | .00     | 163     | 95      | 150    |
| 19          | 150     | 150      | 150     | 90   | 90   | 900     | 150     | 150     | .00     | .00     | 150     | 52     |
| 20          | 150     | 150      | 150     | 90   | 90   | 900     | 150     | 54      | .00     | .00     | 150     | .00    |
| 21          | 150     | 150      | 150     | 90   | 90   | 900     | 150     | .00     | .00     | .00     | 344     | .00    |
| 22          | 150     | 54       | 150     | 90   | 90   | 900     | 150     | 291     | .00     | .00     | 498     | .00    |
| 23          | 150     | .00      | 150     | 90   | 90   | 900     | 150     | 256     | .00     | .00     | 525     | .00    |
| 24          | 150     | .00      | 52      | 90   | 90   | 634     | 150     | 150     | .00     | .00     | 525     | .00    |
| 25          | 150     | .00      | .00     | 90   | 90   | 161     | 150     | 150     | .00     | .00     | 234     | .00    |
| 26          | 150     | .00      | 94      | 90   | 90   | .00     | 150     | 150     | .00     | .00     | .00     | .00    |
| 27          | 150     | 98       | 150     | 90   | 90   | .00     | 150     | 150     | .00     | .00     | .00     | .00    |
| 28          | 150     | 150      | 150     | 123  | 90   | .00     | 150     | 150     | .00     | .00     | .00     | .00    |
| 29          | 150     | 150      | 150     | 180  | ---  | .00     | 207     | 150     | .00     | .00     | .00     | .00    |
| 30          | 150     | 150      | 150     | 180  | ---  | .00     | 240     | 150     | .00     | .00     | .00     | .00    |
| 31          | 53      | ---      | 111     | 122  | ---  | 285     | ---     | 150     | ---     | .00     | .00     | ---    |
| TOTAL       | 6139.00 | 3549.00  | 3256.00 | 3035 | 2520 | 9692.00 | 5649.00 | 4351.00 | 1254.00 | 3611.00 | 2969.00 | 449.00 |
| MEAN        | 198     | 118      | 105     | 97.9 | 90.0 | 313     | 188     | 140     | 41.8    | 116     | 95.8    | 15.0   |
| MAX         | 900     | 450      | 150     | 180  | 90   | 1060    | 450     | 291     | 150     | 450     | 525     | 150    |
| MIN         | .00     | .00      | .00     | 90   | 90   | .00     | .00     | .00     | .00     | .00     | .00     | .00    |
| AC-FT       | 12180   | 7040     | 6460    | 6020 | 5000 | 19220   | 11200   | 8630    | 2490    | 7160    | 5890    | 891    |
| CAL YR 1985 | TOTAL   | 30171.00 |         | MEAN | 82.7 | MAX     | 1350    | MIN     | .00     | AC-FT   | 59840   |        |
| WTR YR 1986 | TOTAL   | 46474.00 |         | MEAN | 127  | MAX     | 1060    | MIN     | .00     | AC-FT   | 92180   |        |



## SOUTH FLORIDA

89

## KISSIMMEE RIVER BASIN

02273300 CANAL 41A AT S-84, NEAR OKEECHOBEE, FL

LOCATION.--Lat 27°12'55", long 80°58'55", in SW¼ sec.36, T.37 S., R.33 E., Highlands County, Hydrologic Unit 03090101, 40 ft from left bank, 500 ft upstream from control structure 84, and 9.5 mi west of Okeechobee.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1963 to current year. Prior to October 1968, published as "above S-84."

GAGE.--Water-stage and deflection-meter recorder. Datum of gage is 10.00 ft above National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark).

REMARKS.--Estimated daily discharges: Oct. 13 to Nov. 1. Records fair. Flow regulated by operation of structure 84, by storage releases upstream at structure 68 at outlet of Lake Istokpoga and several small diversions above station for irrigation. Flow may be diverted into either Indian Prairie Canal or Harney Pond Canal by combined operation by structures 70, 75, 82, and 83.

COOPERATION.--Gate-operation record provided by South Florida Water Management District.

AVERAGE DISCHARGE.--22 years (water years 1965-86), 188 ft<sup>3</sup>/s, 136,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,080 ft<sup>3</sup>/s, Oct. 3, 1969; maximum gage height, 17.39 ft, July 9, 1984; no flow for many days each year; minimum gage height, 6.78 ft, Oct. 16, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge 789 ft<sup>3</sup>/s, Aug. 24; maximum gage height, 15.38 ft, Sept. 5; no flow for many days; minimum gage height, 10.53 ft, July 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT     | NOV      | DEC    | JAN    | FEB  | MAR     | APR    | MAY | JUN     | JUL     | AUG     | SEP     |
|-------------|---------|----------|--------|--------|------|---------|--------|-----|---------|---------|---------|---------|
| 1           | .00     | .00      | .00    | .00    | .00  | .00     | 311    | .00 | .00     | 486     | .00     | .00     |
| 2           | .00     | .00      | 125    | .00    | .00  | .00     | 180    | .00 | .00     | 319     | .00     | .00     |
| 3           | .00     | 133      | .00    | .00    | .00  | .00     | .00    | .00 | .00     | .00     | 182     | .00     |
| 4           | 243     | 206      | .00    | .00    | .00  | .00     | .00    | .00 | .00     | .00     | .00     | .00     |
| 5           | 185     | 175      | .00    | .00    | .00  | .00     | .00    | .00 | .00     | .00     | 206     | 258     |
| 6           | 393     | 167      | .00    | .00    | .00  | .00     | .00    | .00 | .00     | 192     | 251     | .00     |
| 7           | 201     | .00      | .00    | .00    | .00  | .00     | .00    | .00 | .00     | 692     | .00     | .00     |
| 8           | 546     | .00      | 167    | .00    | .00  | .00     | .00    | .00 | .00     | 650     | 194     | 118     |
| 9           | 458     | .00      | .00    | .00    | .00  | .00     | .00    | .00 | .00     | 550     | .00     | .00     |
| 10          | 202     | .00      | .00    | .00    | .00  | .00     | .00    | .00 | .00     | 487     | .00     | .00     |
| 11          | .00     | .00      | .00    | .00    | .00  | .00     | .00    | .00 | .00     | 192     | .00     | .00     |
| 12          | .00     | .00      | .00    | .00    | .00  | 108     | .00    | .00 | .00     | 89      | 199     | 131     |
| 13          | .00     | .00      | .00    | 151    | .00  | 55      | .00    | .00 | .00     | 198     | .00     | .00     |
| 14          | .00     | .00      | .00    | .00    | .00  | .00     | .00    | .00 | .00     | 249     | .00     | .00     |
| 15          | .00     | .00      | .00    | .00    | .00  | 191     | .00    | .00 | .00     | 485     | 137     | .00     |
| 16          | .00     | .00      | .00    | .00    | .00  | 272     | .00    | .00 | .00     | 388     | 194     | 166     |
| 17          | .00     | .00      | .00    | .00    | .00  | 501     | .00    | .00 | .00     | 410     | 180     | 187     |
| 18          | 118     | 255      | .00    | .00    | .00  | 500     | .00    | .00 | .00     | 151     | 422     | 129     |
| 19          | 286     | 222      | .00    | .00    | .00  | 420     | .00    | .00 | .00     | .00     | 241     | 124     |
| 20          | 128     | .00      | .00    | .00    | .00  | 495     | .00    | .00 | .00     | .00     | 334     | .00     |
| 21          | 174     | .00      | 161    | .00    | .00  | 449     | .00    | .00 | .00     | .00     | 561     | .00     |
| 22          | 125     | 125      | .00    | .00    | .00  | 450     | .00    | .00 | 205     | .00     | 520     | .00     |
| 23          | 157     | .00      | .00    | .00    | .00  | 406     | .00    | .00 | 167     | 3.6     | .00     | .00     |
| 24          | .00     | .00      | .00    | .00    | .00  | 306     | .00    | .00 | 134     | 406     | 789     | .00     |
| 25          | .00     | .00      | .00    | .00    | .00  | .00     | .00    | .00 | 135     | .00     | 361     | .00     |
| 26          | .00     | .00      | .00    | .00    | .00  | .00     | .00    | .00 | 239     | 203     | .00     | .00     |
| 27          | 167     | .00      | .00    | .00    | .00  | .00     | .00    | .00 | 55      | 180     | .00     | .00     |
| 28          | .00     | .00      | .00    | .00    | .00  | .00     | .00    | .00 | 177     | 259     | 153     | .00     |
| 29          | .00     | .00      | .00    | .00    | ---  | .00     | .00    | .00 | 201     | 184     | .00     | .00     |
| 30          | .00     | .00      | .00    | .00    | ---  | .00     | .00    | .00 | 203     | 177     | .00     | .00     |
| 31          | .00     | ---      | .00    | .00    | ---  | 195     | ---    | .00 | ---     | 162     | 134     | ---     |
| TOTAL       | 3383.00 | 1283.00  | 453.00 | 151.00 | .00  | 4348.00 | 491.00 | .00 | 1516.00 | 7112.60 | 5058.00 | 1113.00 |
| MEAN        | 109     | 42.8     | 14.6   | 4.87   | .00  | 140     | 16.4   | .00 | 50.5    | 229     | 163     | 37.1    |
| MAX         | 546     | 255      | 167    | 151    | .00  | 501     | 311    | .00 | 239     | 692     | 789     | 258     |
| MIN         | .00     | .00      | .00    | .00    | .00  | .00     | .00    | .00 | .00     | .00     | .00     | .00     |
| AC-FT       | 6710    | 2540     | 899    | 300    | .00  | 8620    | 974    | .00 | 3010    | 14110   | 10030   | 2210    |
| CAL YR 1985 | TOTAL   | 21318.00 |        | MEAN   | 58.4 | MAX     | 2190   | MIN | .00     | AC-FT   | 42280   |         |
| WTR YR 1986 | TOTAL   | 24908.60 |        | MEAN   | 68.2 | MAX     | 789    | MIN | .00     | AC-FT   | 49410   |         |

## SOUTH FLORIDA

 KISSIMMEE RIVER BASIN  
 02273300 CANAL 41A AT S-84, NEAR OKEECHOBEE, FL

 GAGE HEIGHT, IN FEET ABOVE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
 MEAN VALUES

| DAY              | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1                | 14.28 | 14.41 | 14.52 | 14.31 | 14.46 | 13.70 | 14.43 | 12.75 | 13.12 | 14.09 | 14.49 | 14.46 |
| 2                | 14.44 | 14.54 | 14.40 | 14.33 | 14.48 | 13.66 | 14.25 | 12.62 | 13.16 | 11.18 | 14.85 | 14.61 |
| 3                | 14.53 | 14.68 | 14.07 | 14.35 | 14.48 | 13.67 | 14.11 | 12.50 | 13.05 | 11.78 | 14.16 | 14.72 |
| 4                | 14.39 | 14.35 | 13.93 | 14.35 | 14.46 | 13.70 | 13.94 | 12.46 | 12.93 | 12.80 | 14.36 | 14.77 |
| 5                | 14.53 | 14.42 | 14.12 | 14.38 | 14.45 | 13.68 | 13.88 | 12.47 | 12.92 | 13.90 | 14.31 | 14.77 |
| 6                | 14.33 | 14.51 | 14.47 | 14.37 | 14.46 | 13.57 | 13.89 | 12.39 | 12.92 | 14.57 | 14.39 | 14.20 |
| 7                | 14.47 | 14.60 | 14.61 | 14.37 | 14.45 | 13.55 | 13.88 | 12.33 | 12.92 | 14.45 | 14.36 | 14.63 |
| 8                | 14.44 | 14.59 | 14.22 | 14.34 | 14.32 | 13.53 | 13.77 | 12.36 | 12.92 | 14.50 | 14.32 | 14.78 |
| 9                | 14.38 | 14.57 | 14.12 | 14.34 | 14.16 | 13.53 | 13.62 | 12.39 | 12.91 | 14.50 | 14.38 | 14.34 |
| 10               | 14.23 | 14.56 | 14.16 | 14.53 | 14.03 | 13.86 | 13.64 | 12.41 | 12.79 | 14.44 | 14.70 | 14.81 |
| 11               | 14.04 | 14.55 | 14.19 | 14.75 | 14.12 | 14.41 | 13.83 | 12.42 | 12.77 | 14.52 | 14.87 | 14.93 |
| 12               | 14.06 | 14.53 | 14.23 | 14.75 | 14.28 | 14.77 | 13.81 | 12.40 | 12.79 | 14.27 | 14.47 | 14.39 |
| 13               | 14.08 | 14.51 | 14.26 | 14.70 | 14.26 | 14.00 | 14.12 | 12.30 | 12.85 | 14.65 | 14.14 | 14.30 |
| 14               | 14.10 | 14.58 | 14.33 | 14.07 | 14.18 | 14.31 | 14.08 | 12.28 | 13.00 | 14.39 | 14.59 | 14.44 |
| 15               | 14.12 | 14.79 | 14.33 | 14.09 | 14.17 | 14.41 | 13.90 | 12.26 | 13.13 | 14.39 | 14.62 | 14.55 |
| 16               | 14.13 | 14.77 | 14.35 | 14.08 | 14.14 | 14.39 | 14.13 | 12.25 | 13.24 | 14.49 | 14.47 | 14.59 |
| 17               | 14.28 | 14.73 | 14.43 | 14.06 | 14.17 | 14.45 | 14.11 | 12.13 | 13.33 | 14.45 | 14.49 | 14.21 |
| 18               | 14.49 | 14.53 | 14.68 | 14.03 | 14.18 | 14.39 | 13.88 | 12.03 | 13.43 | 14.23 | 14.41 | 14.33 |
| 19               | 14.34 | 14.26 | 14.69 | 14.05 | 14.14 | 14.46 | 13.81 | 11.95 | 13.56 | 14.19 | 14.32 | 14.31 |
| 20               | 14.33 | 14.08 | 14.70 | 14.07 | 14.06 | 14.40 | 13.80 | 11.93 | 14.04 | 14.38 | 14.58 | 14.33 |
| 21               | 14.41 | 14.40 | 14.42 | 14.06 | 13.86 | 14.50 | 13.81 | 11.96 | 14.40 | 14.57 | 14.37 | 14.54 |
| 22               | 14.30 | 14.42 | 13.90 | 14.07 | 13.85 | 14.44 | 13.79 | 12.41 | 14.33 | 14.71 | 14.56 | 14.66 |
| 23               | 14.18 | 14.05 | 13.92 | 14.24 | 13.96 | 14.46 | 13.63 | 13.90 | 14.24 | 15.02 | 14.46 | 14.75 |
| 24               | 14.22 | 14.06 | 13.96 | 14.32 | 14.14 | 14.44 | 13.54 | 14.04 | 14.34 | 14.29 | 14.43 | 14.80 |
| 25               | 14.45 | 14.09 | 14.01 | 14.27 | 14.12 | 14.47 | 13.37 | 13.99 | 14.49 | 13.66 | 14.26 | 14.83 |
| 26               | 14.63 | 13.98 | 13.99 | 14.29 | 13.97 | 14.57 | 13.31 | 13.91 | 14.25 | 14.40 | 14.44 | 14.85 |
| 27               | 14.78 | 13.97 | 13.99 | 14.32 | 13.81 | 14.64 | 13.32 | 13.73 | 14.65 | 14.54 | 14.74 | 14.86 |
| 28               | 13.99 | 14.12 | 13.99 | 14.21 | 13.69 | 14.67 | 13.28 | 13.55 | 14.17 | 14.49 | 14.47 | 14.87 |
| 29               | 14.27 | 14.15 | 14.08 | 14.19 | ---   | 14.68 | 13.10 | 13.46 | 14.47 | 14.46 | 14.52 | 14.86 |
| 30               | 14.35 | 14.49 | 14.31 | 14.41 | ---   | 14.69 | 12.92 | 13.33 | 14.33 | 14.44 | 14.83 | 14.85 |
| 31               | 14.32 | ---   | 14.30 | 14.46 | ---   | 14.56 | ---   | 13.18 | ---   | 14.45 | 14.31 | ---   |
| MEAN             | 14.32 | 14.41 | 14.25 | 14.30 | 14.17 | 14.21 | 13.76 | 12.71 | 13.51 | 14.17 | 14.47 | 14.61 |
| MAX              | 14.78 | 14.79 | 14.70 | 14.75 | 14.48 | 14.77 | 14.43 | 14.04 | 14.65 | 15.02 | 14.87 | 14.93 |
| MIN              | 13.99 | 13.97 | 13.90 | 14.03 | 13.69 | 13.53 | 12.92 | 11.93 | 12.77 | 11.18 | 14.14 | 14.20 |
| CAL YR 1985 MEAN | 13.04 |       |       | MAX   | 14.88 | MIN   | 10.61 |       |       |       |       |       |
| WTR YR 1986 MEAN | 14.07 |       |       | MAX   | 15.02 | MIN   | 11.18 |       |       |       |       |       |

## SOUTH FLORIDA

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## TAYLOR CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTH

02274000 TAYLOR CREEK NEAR BASINGER, FL

LOCATION.--Lat 27°23'39", long 80°53'44", in SE¼ sec.26, T.35 S., R.34 E., Okeechobee County, Hydrologic Unit 03090102, near center of channel on downstream side of bridge on State Highway 68, 800 ft upstream from control structure 3, 0.8 mi downstream from small tributary, 8.5 mi east of Basinger, and 17 mi upstream from mouth.

DRAINAGE AREA.--15.7 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 25.00 ft above National Geodetic Vertical Datum of 1929. Prior to Apr. 13, 1960 at present site, at datum 4.10 ft higher. Apr. 14, 1960, to Sept. 30, 1962, at site about 500 ft downstream, and Oct. 1, 1962, to Sept. 30, 1966, at present site, at datum 4.10 ft higher.

REMARKS.--Records fair. Some diversion during low flow for irrigation. Flow regulated at station by operation of control structure 3 since February 1965.

AVERAGE DISCHARGE.--31 years, 14.6 ft<sup>3</sup>/s, 10,580 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,540 ft<sup>3</sup>/s, Oct. 15, 1956, gage height, 11.98 ft, present datum, from rating curve extended above 1,100 ft<sup>3</sup>/s; no flow at times in most years; minimum gage height, 2.75 ft, present datum, Feb. 11, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 890 ft<sup>3</sup>/s, Aug. 16, gage height, 10.04 ft; no flow Apr. 29 to May 9, May 11 to June 4; minimum gage height, 2.80 ft, July 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT    | NOV     | DEC   | JAN   | FEB   | MAR   | APR  | MAY | JUN    | JUL   | AUG    | SEP   |
|-------------|--------|---------|-------|-------|-------|-------|------|-----|--------|-------|--------|-------|
| 1           | 9.7    | 1.2     | .42   | .84   | 1.2   | .90   | .60  | .00 | .00    | 52    | 11     | 7.0   |
| 2           | 8.7    | 1.4     | .60   | .96   | 1.2   | .90   | .48  | .00 | .00    | 72    | 7.9    | 5.7   |
| 3           | 9.1    | 2.3     | 4.3   | 1.0   | 1.1   | .78   | .42  | .00 | .00    | 44    | 6.0    | 4.1   |
| 4           | 16     | 15      | 3.2   | 1.1   | 1.1   | .72   | .30  | .00 | .00    | 53    | 5.5    | 4.0   |
| 5           | 12     | 15      | 3.4   | 1.1   | 1.1   | .66   | .30  | .00 | .58    | 72    | 5.3    | 4.7   |
| 6           | 9.5    | 15      | 12    | 1.6   | 1.1   | .60   | .30  | .00 | .42    | 53    | 4.5    | 32    |
| 7           | 7.4    | 13      | 8.9   | 1.6   | 1.1   | .54   | .30  | .00 | .18    | 54    | 4.0    | 16    |
| 8           | 5.5    | 10      | 6.6   | 1.6   | .96   | .48   | .30  | .00 | .06    | 48    | 3.2    | 27    |
| 9           | 4.5    | 8.1     | 5.5   | 2.3   | 1.0   | .36   | .24  | .00 | .42    | 31    | 3.2    | 62    |
| 10          | 3.8    | 6.8     | 4.9   | 6.4   | 1.1   | .72   | .18  | .30 | .66    | 23    | 3.4    | 36    |
| 11          | 3.4    | 5.7     | 4.0   | 7.0   | 1.1   | 1.4   | .18  | .00 | .36    | 19    | 8.9    | 28    |
| 12          | 4.5    | 4.7     | 3.4   | 6.0   | 1.1   | 1.2   | .18  | .00 | 2.6    | 15    | 7.0    | 20    |
| 13          | 10     | 4.0     | 2.8   | 5.3   | 1.0   | .96   | .24  | .00 | 4.9    | 13    | 6.4    | 13    |
| 14          | 7.4    | 3.2     | 2.3   | 4.3   | .84   | 1.1   | .24  | .00 | 4.5    | 11    | 9.3    | 8.7   |
| 15          | 5.3    | 2.6     | 2.3   | 4.0   | .84   | 3.0   | .18  | .00 | 4.0    | 8.7   | 100    | 6.0   |
| 16          | 3.4    | 1.9     | 2.1   | 3.2   | .78   | 3.0   | .12  | .00 | 5.7    | 6.8   | 562    | 4.5   |
| 17          | 3.0    | 1.6     | 2.1   | 3.2   | .72   | 3.2   | .12  | .00 | 5.9    | 5.5   | 154    | 3.4   |
| 18          | 1.9    | 1.1     | 2.1   | 3.0   | .72   | 2.3   | .06  | .00 | 6.4    | 4.0   | 165    | 3.4   |
| 19          | 1.7    | 1.0     | 1.7   | 4.0   | .78   | 1.6   | .06  | .00 | 7.0    | 2.8   | 74     | 3.0   |
| 20          | 1.4    | 1.1     | 1.2   | 4.1   | .78   | 1.2   | .06  | .00 | 11     | 1.7   | 60     | 5.7   |
| 21          | 1.2    | 1.0     | 1.1   | 3.4   | .66   | 1.1   | .06  | .00 | 14     | 1.1   | 57     | 15    |
| 22          | 1.1    | .90     | 1.0   | 3.0   | .66   | 1.0   | .06  | .00 | 17     | 1.2   | 40     | 8.3   |
| 23          | .96    | .84     | .90   | 2.6   | .96   | .90   | .06  | .00 | 18     | 1.7   | 32     | 6.0   |
| 24          | .90    | .84     | .90   | 2.5   | 1.7   | .78   | .06  | .00 | 16     | 1.7   | 24     | 4.5   |
| 25          | .84    | .72     | 1.0   | 2.1   | 1.4   | .72   | .18  | .00 | 75     | 1.4   | 22     | 3.0   |
| 26          | .84    | .66     | 1.0   | 1.9   | 1.0   | .66   | .12  | .00 | 213    | 1.4   | 21     | 2.1   |
| 27          | .72    | .60     | .90   | 1.9   | .78   | .78   | .06  | .00 | 113    | 1.6   | 31     | 1.9   |
| 28          | .72    | .60     | .90   | 1.6   | .78   | 1.0   | .06  | .00 | 71     | 4.5   | 16     | 1.7   |
| 29          | .78    | .54     | .96   | 1.4   | ---   | .96   | .00  | .00 | 45     | 5.9   | 11     | 1.6   |
| 30          | .90    | .48     | .96   | 1.2   | ---   | .84   | .00  | .00 | 41     | 6.6   | 8.1    | 1.6   |
| 31          | 1.0    | ---     | .84   | 1.2   | ---   | .72   | ---  | .00 | ---    | 11    | 6.4    | ---   |
| TOTAL       | 138.16 | 121.88  | 84.28 | 85.40 | 27.56 | 35.08 | 5.52 | .30 | 677.68 | 627.6 | 1469.1 | 339.9 |
| MEAN        | 4.46   | 4.06    | 2.72  | 2.75  | .98   | 1.13  | .18  | .01 | 22.6   | 20.2  | 47.4   | 11.3  |
| MAX         | 16     | 15      | 12    | 7.0   | 1.7   | 3.2   | .60  | .30 | 213    | 72    | 562    | 62    |
| MIN         | .72    | .48     | .42   | .84   | .66   | .36   | .00  | .00 | .00    | 1.1   | 3.2    | 1.6   |
| AC-FT       | 274    | 242     | 167   | 169   | 55    | 70    | 11   | .6  | 1340   | 1240  | 2910   | 674   |
| CAL YR 1985 | TOTAL  | 2906.02 |       | MEAN  | 7.96  | MAX   | 228  | MIN | .00    | AC-FT | 5760   |       |
| WTR YR 1986 | TOTAL  | 3612.46 |       | MEAN  | 9.90  | MAX   | 562  | MIN | .00    | AC-FT | 7170   |       |

## SOUTH FLORIDA

## TAYLOR CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTH

02274000 TAYLOR CREEK NEAR BASINGER, FL

GAGE HEIGHT, IN FEET ABOVE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1           | 3.60 | 3.16 | 3.05 | 3.11 | 3.13 | 3.12 | 3.12 | 3.00 | 3.07 | 4.45 | 3.33 | 3.11 |
| 2           | 3.55 | 3.17 | 3.08 | 3.13 | 3.13 | 3.12 | 3.10 | 2.99 | 3.32 | 4.79 | 3.18 | 3.04 |
| 3           | 3.57 | 3.23 | 3.35 | 3.13 | 3.12 | 3.10 | 3.09 | 2.99 | 3.35 | 4.33 | 3.08 | 2.96 |
| 4           | 3.86 | 3.85 | 3.30 | 3.14 | 3.11 | 3.09 | 3.07 | 2.98 | 3.40 | 4.47 | 3.05 | 2.95 |
| 5           | 3.72 | 3.87 | 3.31 | 3.14 | 3.12 | 3.08 | 3.07 | 2.98 | 3.33 | 4.79 | 3.04 | 2.99 |
| 6           | 3.59 | 3.87 | 3.76 | 3.18 | 3.11 | 3.08 | 3.07 | 2.98 | 3.09 | 4.48 | 3.00 | 4.02 |
| 7           | 3.48 | 3.78 | 3.60 | 3.18 | 3.11 | 3.07 | 3.07 | 2.98 | 3.05 | 4.49 | 2.97 | 3.54 |
| 8           | 3.38 | 3.65 | 3.48 | 3.18 | 3.10 | 3.06 | 3.07 | 2.98 | 3.03 | 4.40 | 2.93 | 3.88 |
| 9           | 3.33 | 3.54 | 3.42 | 3.22 | 3.11 | 3.04 | 3.06 | 3.02 | 3.09 | 4.01 | 2.93 | 4.62 |
| 10          | 3.29 | 3.47 | 3.39 | 3.44 | 3.13 | 3.10 | 3.05 | 3.07 | 3.13 | 3.79 | 2.94 | 4.13 |
| 11          | 3.27 | 3.41 | 3.34 | 3.47 | 3.13 | 3.19 | 3.05 | 3.00 | 3.08 | 3.63 | 3.23 | 3.93 |
| 12          | 3.33 | 3.36 | 3.31 | 3.42 | 3.12 | 3.18 | 3.05 | 3.00 | 3.27 | 3.50 | 3.13 | 3.68 |
| 13          | 3.63 | 3.32 | 3.28 | 3.37 | 3.11 | 3.15 | 3.06 | 2.98 | 3.36 | 3.40 | 3.10 | 3.40 |
| 14          | 3.48 | 3.28 | 3.25 | 3.32 | 3.09 | 3.17 | 3.06 | 2.99 | 3.32 | 3.32 | 3.24 | 3.20 |
| 15          | 3.37 | 3.25 | 3.25 | 3.30 | 3.09 | 3.29 | 3.05 | 3.02 | 3.26 | 3.21 | 4.72 | 3.06 |
| 16          | 3.27 | 3.21 | 3.23 | 3.26 | 3.08 | 3.29 | 3.04 | 3.04 | 3.32 | 3.11 | 8.42 | 2.98 |
| 17          | 3.25 | 3.19 | 3.23 | 3.26 | 3.07 | 3.30 | 3.04 | 3.05 | 3.30 | 3.05 | 5.94 | 2.92 |
| 18          | 3.20 | 3.16 | 3.23 | 3.25 | 3.07 | 3.25 | 3.03 | 3.04 | 3.30 | 2.97 | 6.05 | 2.92 |
| 19          | 3.19 | 3.15 | 3.21 | 3.30 | 3.08 | 3.22 | 3.03 | 3.03 | 3.31 | 2.91 | 4.81 | 2.90 |
| 20          | 3.17 | 3.16 | 3.18 | 3.31 | 3.08 | 3.20 | 3.03 | 3.02 | 3.50 | 2.85 | 4.58 | 3.04 |
| 21          | 3.16 | 3.15 | 3.16 | 3.27 | 3.07 | 3.18 | 3.03 | 3.07 | 3.60 | 2.81 | 4.54 | 3.49 |
| 22          | 3.14 | 3.13 | 3.15 | 3.24 | 3.07 | 3.17 | 3.03 | 3.36 | 3.67 | 2.82 | 4.23 | 3.18 |
| 23          | 3.12 | 3.12 | 3.13 | 3.22 | 3.12 | 3.15 | 3.03 | 3.25 | 3.67 | 2.85 | 4.03 | 3.06 |
| 24          | 3.11 | 3.12 | 3.13 | 3.21 | 3.19 | 3.13 | 3.03 | 3.21 | 3.57 | 2.85 | 3.82 | 2.98 |
| 25          | 3.10 | 3.10 | 3.14 | 3.19 | 3.17 | 3.12 | 3.05 | 3.18 | 4.76 | 2.83 | 3.75 | 2.90 |
| 26          | 3.10 | 3.09 | 3.14 | 3.18 | 3.13 | 3.12 | 3.04 | 3.14 | 6.49 | 2.83 | 3.72 | 2.85 |
| 27          | 3.08 | 3.08 | 3.12 | 3.18 | 3.10 | 3.14 | 3.03 | 3.10 | 5.45 | 2.84 | 3.99 | 2.84 |
| 28          | 3.08 | 3.08 | 3.12 | 3.16 | 3.10 | 3.18 | 3.03 | 3.07 | 4.76 | 3.00 | 3.53 | 2.83 |
| 29          | 3.09 | 3.07 | 3.13 | 3.15 | ---  | 3.17 | 3.02 | 3.05 | 4.33 | 3.07 | 3.32 | 2.82 |
| 30          | 3.11 | 3.06 | 3.13 | 3.14 | ---  | 3.15 | 3.02 | 3.02 | 4.25 | 3.11 | 3.17 | 2.82 |
| 31          | 3.13 | ---  | 3.11 | 3.13 | ---  | 3.13 | ---  | 3.00 | ---  | 3.33 | 3.08 | ---  |
| MEAN        | 3.31 | 3.30 | 3.25 | 3.23 | 3.11 | 3.15 | 3.05 | 3.05 | 3.65 | 3.49 | 3.83 | 3.23 |
| MAX         | 3.86 | 3.87 | 3.76 | 3.47 | 3.19 | 3.30 | 3.12 | 3.36 | 6.49 | 4.79 | 8.42 | 4.62 |
| MIN         | 3.08 | 3.06 | 3.05 | 3.11 | 3.07 | 3.04 | 3.02 | 2.98 | 3.03 | 2.81 | 2.93 | 2.82 |
| CAL YR 1985 | MEAN | 5.36 | MAX  | 9.36 | MIN  | 3.05 |      |      |      |      |      |      |
| WTR YR 1986 | MEAN | 3.31 | MAX  | 8.42 | MIN  | 2.81 |      |      |      |      |      |      |

## SOUTH FLORIDA

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## TAYLOR CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTH

02274330 TAYLOR CREEK ABOVE S-1, NEAR OKEECHOBEE, FL

LOCATION.--Lat 27°17'47", long 80°49'44", in NE¼ sec.33, T.36 S., R.35 E., Okeechobee County, Hydrologic Unit 03090102, near left bank on upstream side of wingwall of abandoned control structure 1,800 ft upstream from U.S. Highway 441, 0.3 mi upstream from Williamson Ditch, 3.7 mi north of Okeechobee, and 9.7 mi upstream from mouth at control structure 191.

DRAINAGE AREA.--62.2 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1964 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to June 25, 1964, reference point at present site and June 25, 1964 to May 31, 1976 at site 150 ft upstream at same datum.

REMARKS.--Flow regulated by control structure 191 beginning July 1973.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 24.69 ft, June 23, 1973, result of coffer dam; minimum, 12.87 ft, estimated, Sept. 7, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 20.43 ft, Aug. 16; minimum, 18.06 ft, Apr. 16.

GAGE HEIGHT, IN FEET ABOVE DATUM, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1    | 18.95 | 18.79 | 18.76 | 18.71 | 18.65 | 18.70 | 18.76 | 18.31 | 18.90 | 19.33 | 19.38 | 19.28 |
| 2    | 18.88 | 18.88 | 18.80 | 18.82 | 18.74 | 18.68 | 18.83 | 18.30 | 18.89 | 19.49 | 19.32 | 19.30 |
| 3    | 19.04 | 18.80 | 18.69 | 18.92 | 18.83 | 18.83 | 18.88 | 18.30 | 18.89 | 19.37 | 19.33 | 19.25 |
| 4    | 19.09 | 18.76 | 18.88 | 18.87 | 18.91 | 18.94 | 18.88 | 18.30 | 18.90 | 19.53 | 19.29 | 19.27 |
| 5    | 19.03 | 18.84 | 18.82 | 18.69 | 18.98 | 18.64 | 18.86 | 18.30 | 18.89 | 19.77 | 19.34 | 19.33 |
| 6    | 18.88 | 18.74 | 18.79 | 18.80 | 18.59 | 18.65 | 18.85 | 18.30 | 18.89 | 19.48 | 19.30 | 19.45 |
| 7    | 18.94 | 18.74 | 18.75 | 18.91 | 18.68 | 18.73 | 18.83 | 18.30 | 18.88 | 19.38 | 19.26 | 19.40 |
| 8    | 18.91 | 18.84 | 18.88 | 18.68 | 18.76 | 18.80 | 18.81 | 18.31 | 18.88 | 19.38 | 19.28 | 19.37 |
| 9    | 18.88 | 18.72 | 18.69 | 18.78 | 18.84 | 18.88 | 18.77 | 18.32 | 18.89 | 19.37 | 19.32 | 19.34 |
| 10   | 18.89 | 18.81 | 18.81 | 18.83 | 18.94 | 18.78 | 18.73 | 18.41 | 18.91 | 19.34 | 19.31 | 19.68 |
| 11   | 18.78 | 18.83 | 18.88 | 18.82 | 19.02 | 18.80 | 18.60 | 18.43 | 18.96 | 19.36 | 19.34 | 19.60 |
| 12   | 18.93 | 18.77 | 18.69 | 18.68 | 18.81 | 18.87 | 18.47 | 18.44 | 19.17 | 19.33 | 19.32 | 19.44 |
| 13   | 18.94 | 18.93 | 18.89 | 18.86 | 18.67 | 18.74 | 18.33 | 18.45 | 19.34 | 19.34 | 19.32 | 19.34 |
| 14   | 18.90 | 18.66 | 18.71 | 18.64 | 18.78 | 18.82 | 18.22 | 18.45 | 19.30 | 19.32 | 19.31 | 19.30 |
| 15   | 18.92 | 18.76 | 18.76 | 18.82 | 18.85 | 18.77 | 18.11 | 18.45 | 19.28 | 19.31 | 19.34 | 19.29 |
| 16   | 18.91 | 18.88 | 18.86 | 18.84 | 18.94 | 18.75 | 18.10 | 18.45 | 19.25 | 19.29 | 20.14 | 19.28 |
| 17   | 18.91 | 18.83 | 18.65 | 18.70 | 18.89 | 18.80 | 18.13 | 18.45 | 19.26 | 19.28 | 19.77 | 19.28 |
| 18   | 18.91 | 18.75 | 18.82 | 18.85 | 18.72 | 18.75 | 18.15 | 18.45 | 19.26 | 19.31 | 19.69 | 19.27 |
| 19   | 18.94 | 18.90 | 18.73 | 18.73 | 18.83 | 18.92 | 18.18 | 18.45 | 19.28 | 19.30 | 19.87 | 19.25 |
| 20   | 18.93 | 18.76 | 18.68 | 18.67 | 18.78 | 18.75 | 18.22 | 18.44 | 19.31 | 19.35 | 19.68 | 19.26 |
| 21   | 18.83 | 18.84 | 18.80 | 18.81 | 18.65 | 18.73 | 18.24 | 18.48 | 19.46 | 19.33 | 19.55 | 19.26 |
| 22   | 18.96 | 18.84 | 18.90 | 18.94 | 18.75 | 18.83 | 18.23 | 18.73 | 19.54 | 19.30 | 19.51 | 19.26 |
| 23   | 18.63 | 18.68 | 18.74 | 18.59 | 18.83 | 18.73 | 18.24 | 18.84 | 19.50 | 19.30 | 19.41 | 19.28 |
| 24   | 18.65 | 18.81 | 18.67 | 18.70 | 18.93 | 18.60 | 18.26 | 18.90 | 19.41 | 19.32 | 19.34 | 19.27 |
| 25   | 18.83 | 18.93 | 18.77 | 18.82 | 18.79 | 18.68 | 18.27 | 18.93 | 19.37 | 19.30 | 19.32 | 19.27 |
| 26   | 18.82 | 18.81 | 18.87 | 18.76 | 18.61 | 18.75 | 18.29 | 18.95 | 19.55 | 19.36 | 19.30 | 19.28 |
| 27   | 18.82 | 18.78 | 18.78 | 18.59 | 18.69 | 18.82 | 18.29 | 18.96 | 19.41 | 19.30 | 19.31 | 19.22 |
| 28   | 18.82 | 18.90 | 18.65 | 18.69 | 18.79 | 18.88 | 18.29 | 18.95 | 19.38 | 19.33 | 19.30 | 19.24 |
| 29   | 18.86 | 18.93 | 18.77 | 18.81 | ---   | 18.80 | 18.28 | 18.94 | 19.30 | 19.43 | 19.30 | 19.31 |
| 30   | 18.76 | 18.69 | 18.88 | 18.92 | ---   | 18.60 | 18.30 | 18.93 | 19.33 | 19.41 | 19.30 | 19.26 |
| 31   | 18.89 | ---   | 18.83 | 18.75 | ---   | 18.68 | ---   | 18.91 | ---   | 19.41 | 19.33 | ---   |
| MEAN | 18.88 | 18.81 | 18.78 | 18.77 | 18.79 | 18.76 | 18.45 | 18.55 | 19.19 | 19.37 | 19.42 | 19.32 |
| MAX  | 19.09 | 18.93 | 18.90 | 18.94 | 19.02 | 18.94 | 18.88 | 18.96 | 19.55 | 19.77 | 20.14 | 19.68 |
| MIN  | 18.63 | 18.66 | 18.65 | 18.59 | 18.59 | 18.60 | 18.10 | 18.30 | 18.88 | 19.28 | 19.26 | 19.22 |

WTR YR 1986 MEAN 18.93 MAX 20.14 MIN 18.10



## TAYLOR CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTH

02274495 WILLIAMSON DITCH AT S-7, NEAR OKEECHOBEE, FL

LOCATION.--Lat 27°17'45", long 80°49'35", in NW¼ sec.34, T.36 S., R.35 E., Okeechobee County, Hydrologic Unit 03090102, near right bank 125 ft upstream from control structure 7, 450 ft upstream from mouth, and 3.6 mi north of Okeechobee.

DRAINAGE AREA.--35.4 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1964 to current year. Prior to October 1968, published as "above S-7."

GAGE.--Water-stage recorder and sharp-crested weir. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to June 23, 1964, nonrecording gage at site 125 ft downstream at same datum.

REMARKS.--Estimated daily discharges: Sept. 3-30. Records good above 30 ft<sup>3</sup>/s and poor below, except for estimated daily discharges, which are fair. Flow regulated at times by stoplog control 1 mi upstream.

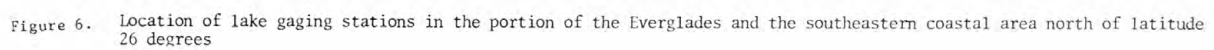
AVERAGE DISCHARGE.--22 years, 30.7 ft<sup>3</sup>/s, 11.78 in/yr, 22,240 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,100 ft<sup>3</sup>/s, Aug. 28, 1964, gage height, 23.12 ft; maximum gage height, 23.62 ft, July 18, 1974, backwater from Taylor Creek; no flow for several days in 1981, 1985, 1986; minimum gage height after completion of weir in April 1964, 19.24 ft, June 2, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 350 ft<sup>3</sup>/s, Sept. 10; maximum gage height, 21.52 ft, Sept. 10, affected by backwater; No flow May 8, 11-13, June 1,5,7,8; minimum gage height, 19.27 ft, June 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY               | OCT      | NOV  | DEC   | JAN   | FEB  | MAR    | APR   | MAY  | JUN     | JUL    | AUG   | SEP    |
|-------------------|----------|------|-------|-------|------|--------|-------|------|---------|--------|-------|--------|
| 1                 | 11       | 3.0  | 2.7   | 1.4   | 1.2  | 5.8    | 2.7   | .35  | .00     | 37     | 189   | 21     |
| 2                 | 34       | 2.7  | 3.9   | 1.4   | 1.4  | 6.1    | 2.1   | .17  | .19     | 49     | 124   | 98     |
| 3                 | 90       | 2.4  | 6.9   | 1.2   | 1.4  | 5.8    | 1.6   | .17  | .17     | 53     | 106   | 90     |
| 4                 | 77       | 2.4  | 3.3   | 1.4   | 1.6  | 4.3    | 1.6   | .08  | .08     | 144    | 77    | 65     |
| 5                 | 49       | 1.8  | 2.4   | 1.6   | 1.4  | 2.7    | 1.4   | .17  | .00     | 144    | 50    | 30     |
| 6                 | 40       | 1.6  | 5.0   | 1.6   | 1.4  | 1.8    | 1.4   | .17  | .08     | 96     | 38    | 20     |
| 7                 | 25       | 1.6  | 3.9   | 1.6   | 1.8  | 1.8    | 1.2   | .11  | .00     | 65     | 45    | 35     |
| 8                 | 14       | 1.8  | 3.0   | 7.8   | 1.8  | 2.1    | .94   | .00  | .00     | 59     | 41    | 70     |
| 9                 | 11       | 2.1  | 3.9   | 2.7   | 2.4  | 1.6    | .54   | .10  | .31     | 77     | 36    | 160    |
| 10                | 6.5      | 2.1  | 3.0   | 3.3   | 2.7  | 8.1    | .74   | .08  | 2.4     | 46     | 32    | 350    |
| 11                | 1.8      | 2.4  | 4.6   | 3.3   | 3.9  | 20     | .74   | .00  | .94     | 63     | 93    | 300    |
| 12                | 3.0      | 2.4  | 3.3   | 3.3   | 4.6  | 13     | .74   | .00  | 22      | 41     | 58    | 200    |
| 13                | 4.6      | 2.1  | 2.7   | 3.3   | 4.6  | 11     | .94   | .00  | 157     | 58     | 43    | 130    |
| 14                | 9.1      | 2.7  | 3.3   | 2.1   | 3.9  | 32     | 1.2   | .17  | 117     | 45     | 66    | 80     |
| 15                | 6.5      | 2.1  | 4.3   | 1.6   | 3.3  | 20     | .94   | .17  | 72      | 26     | 53    | 60     |
| 16                | 6.1      | 2.4  | 5.0   | 1.4   | 3.0  | 11     | .94   | .17  | 37      | 14     | 235   | 45     |
| 17                | 5.4      | 3.0  | 3.9   | 1.6   | 3.0  | 8.2    | .74   | .17  | 88      | 7.7    | 210   | 35     |
| 18                | 4.6      | 3.6  | 3.3   | 2.1   | 3.9  | 6.5    | .74   | .35  | 58      | 5.4    | 138   | 30     |
| 19                | 4.3      | 3.9  | 2.4   | 2.1   | 3.6  | 4.6    | .54   | .35  | 38      | 4.6    | 287   | 23     |
| 20                | 3.9      | 4.3  | 1.6   | 1.8   | 3.9  | 3.6    | .35   | .35  | 63      | 3.6    | 323   | 19     |
| 21                | 3.6      | 3.0  | 1.6   | 1.6   | 3.6  | 3.3    | .35   | .17  | 173     | 3.3    | 277   | 17     |
| 22                | 3.0      | 2.4  | 1.2   | 1.6   | 3.0  | 3.0    | .35   | 3.3  | 232     | 3.6    | 272   | 15     |
| 23                | 2.7      | 2.4  | 1.2   | 1.2   | 3.6  | 1.8    | .35   | 1.4  | 245     | 7.3    | 196   | 13     |
| 24                | 2.4      | 2.7  | 1.2   | .94   | 5.4  | .54    | .35   | .54  | 200     | 16     | 110   | 12     |
| 25                | 2.4      | 3.0  | .94   | .94   | 3.6  | .54    | .17   | .35  | 110     | 14     | 62    | 11     |
| 26                | 3.0      | 2.4  | 1.2   | .94   | 2.1  | .74    | .35   | .17  | 77      | 32     | 38    | 10     |
| 27                | 3.3      | 5.4  | 1.4   | .94   | 1.8  | .94    | .35   | .17  | 53      | 24     | 32    | 9.0    |
| 28                | 2.7      | 4.3  | 1.6   | 1.4   | 2.1  | 1.2    | .35   | .17  | 36      | 85     | 61    | 9.0    |
| 29                | 2.7      | 3.9  | 1.8   | 2.1   | ---  | 1.2    | .54   | .17  | 28      | 274    | 52    | 8.5    |
| 30                | 3.0      | 3.0  | 2.1   | 1.8   | ---  | 1.6    | .74   | .17  | 37      | 225    | 31    | 8.0    |
| 31                | 3.0      | ---  | 1.4   | 1.4   | ---  | 2.7    | ---   | .22  | ---     | 230    | 18    | ---    |
| TOTAL             | 438.6    | 82.9 | 88.04 | 61.46 | 80.0 | 187.56 | 25.99 | 9.96 | 1847.17 | 1952.5 | 3393  | 1973.5 |
| MEAN              | 14.1     | 2.76 | 2.84  | 1.98  | 2.86 | 6.05   | .87   | .32  | 61.6    | 63.0   | 109   | 65.8   |
| MAX               | 90       | 5.4  | 6.9   | 7.8   | 5.4  | 32     | 2.7   | 3.3  | 245     | 274    | 323   | 350    |
| MIN               | 1.8      | 1.6  | .94   | .94   | 1.2  | .54    | .17   | .00  | .00     | 3.3    | 18    | 8.0    |
| AC-FT             | 870      | 164  | 175   | 122   | 159  | 372    | 52    | 20   | 3660    | 3870   | 6730  | 3910   |
| CAL YR 1985 TOTAL | 7689.23  |      |       | MEAN  | 21.1 | MAX    | 564   | MIN  | .00     | AC-FT  | 15250 |        |
| WTR YR 1986 TOTAL | 10140.68 |      |       | MEAN  | 27.8 | MAX    | 350   | MIN  | .00     | AC-FT  | 20110 |        |



## SOUTH FLORIDA

## LAKE OKEECHOBEE

02276400 LAKE OKEECHOBEE, FL

LOCATION.--Center of lake, lat 26°57', long 80°50', in southern Florida, Hydrologic Unit 03090201.

SURFACE AREA.--436,000 acres (681 mi<sup>2</sup>) at elevation 14 ft above National Geodetic Vertical Datum, from data provided by U.S. Army Corps of Engineers.DRAINAGE AREA.--About 5,650 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1931 to current year. Records of elevations prior to October 1960 available as follows: from 1912 to 1914 in reports or files of U.S. Army Corps of Engineers, 1915 to September 1931 in reports or files of Everglades Drainage District, and October 1931 to 1960 in files of the Orlando Subdistrict Office.

REVISED RECORDS.--WRD FL 1969: Surface area. WDR FL-77-1: capacity table.

GAGE.--Three water-stage recorders at Hurricane Gate No. 2, Hurricane Gate No. 6 and Port Mayaca. Datum of gages is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1941, nonrecording gage at St. Lucie Canal. Oct. 1, 1941, to Dec. 31, 1950, seven nonrecording gages at various locations on rim of lake. Prior to Oct. 1, 1933, at datum 1.01 ft lower. Oct. 1, 1933, to Sept. 30, 1946, at datum 1.44 ft lower.

REMARKS.--Lake is diked to form a reservoir and is regulated by control structure gates at several outlets. It is used for navigation, municipal water supply, irrigation, and flood control. Total usable capacity is 2,860,000 acre-ft between elevations 10.5 and 17.5 ft.

COOPERATION.--Records of elevations and capacity table furnished by U.S. Army Corps of Engineers.

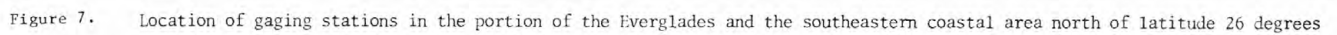
EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 18.77 ft, Nov. 2, 1947; minimum daily, 9.79 ft, July 30, 31, Aug. 1, 1981.

Capacity table, water year 1985-86 (elevation, in feet, and capacity, in acre-feet)

|      |           |      |           |
|------|-----------|------|-----------|
| 10.0 | 2,040,000 | 15.0 | 3,950,000 |
| 11.0 | 2,370,000 | 16.0 | 4,380,000 |
| 12.0 | 2,720,000 | 17.0 | 4,830,000 |
| 13.0 | 3,110,000 | 18.0 | 5,290,000 |
| 14.0 | 3,530,000 |      |           |

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 14.10 | 14.38 | 14.01 | 13.87 | 13.97 | 14.04 | 14.26 | 13.54 | 12.90 | 13.57 | 14.29 | 14.98 |
| 2           | 14.19 | 14.34 | 13.98 | 13.87 | 13.97 | 14.03 | 14.25 | 13.48 | 12.92 | 13.62 | 14.30 | 14.99 |
| 3           | 14.27 | 14.31 | 13.96 | 13.88 | 13.98 | 14.02 | 14.24 | 13.42 | 12.92 | 13.68 | 14.32 | 15.00 |
| 4           | 14.34 | 14.29 | 13.96 | 13.88 | 14.00 | 14.02 | 14.23 | 13.38 | 12.91 | 13.73 | 14.33 | 15.01 |
| 5           | 14.40 | 14.26 | 14.00 | 13.89 | 14.04 | 14.03 | 14.21 | 13.34 | 12.86 | 13.79 | 14.33 | 15.02 |
| 6           | 14.44 | 14.25 | 14.04 | 13.90 | 14.06 | 14.05 | 14.19 | 13.35 | 12.78 | 13.84 | 14.33 | 15.04 |
| 7           | 14.46 | 14.24 | 14.08 | 13.91 | 14.07 | 14.07 | 14.17 | 13.33 | 12.68 | 13.88 | 14.33 | 15.06 |
| 8           | 14.47 | 14.23 | 14.08 | 13.92 | 14.08 | 14.11 | 14.15 | 13.33 | 12.59 | 13.93 | 14.32 | 15.07 |
| 9           | 14.46 | 14.22 | 14.07 | 13.93 | 14.08 | 14.15 | 14.13 | 13.32 | 12.52 | 13.97 | 14.31 | 15.09 |
| 10          | 14.45 | 14.21 | 14.05 | 13.94 | 14.08 | 14.19 | 14.11 | 13.32 | 12.50 | 14.01 | 14.31 | 15.10 |
| 11          | 14.43 | 14.20 | 14.06 | 13.95 | 14.09 | 14.23 | 14.09 | 13.30 | 12.53 | 14.04 | 14.32 | 15.11 |
| 12          | 14.43 | 14.19 | 14.07 | 13.95 | 14.08 | 14.26 | 14.08 | 13.28 | 12.62 | 14.07 | 14.34 | 15.12 |
| 13          | 14.42 | 14.17 | 14.06 | 13.94 | 14.06 | 14.29 | 14.07 | 13.26 | 12.73 | 14.10 | 14.37 | 15.13 |
| 14          | 14.42 | 14.16 | 14.04 | 13.94 | 14.04 | 14.31 | 14.05 | 13.24 | 12.85 | 14.11 | 14.41 | 15.13 |
| 15          | 14.42 | 14.15 | 14.00 | 13.94 | 14.02 | 14.32 | 14.03 | 13.21 | 12.96 | 14.13 | 14.46 | 15.13 |
| 16          | 14.43 | 14.14 | 13.96 | 13.94 | 14.02 | 14.31 | 14.00 | 13.19 | 13.04 | 14.13 | 14.51 | 15.12 |
| 17          | 14.43 | 14.14 | 13.94 | 13.95 | 14.03 | 14.29 | 13.97 | 13.16 | 13.09 | 14.13 | 14.55 | 15.12 |
| 18          | 14.43 | 14.14 | 13.94 | 13.96 | 14.07 | 14.26 | 13.93 | 13.14 | 13.13 | 14.12 | 14.60 | 15.12 |
| 19          | 14.42 | 14.13 | 13.94 | 13.98 | 14.12 | 14.22 | 13.90 | 13.13 | 13.16 | 14.11 | 14.64 | 15.12 |
| 20          | 14.42 | 14.13 | 13.96 | 14.00 | 14.14 | 14.20 | 13.86 | 13.15 | 13.18 | 14.10 | 14.68 | 15.12 |
| 21          | 14.41 | 14.12 | 13.96 | 14.01 | 14.14 | 14.18 | 13.83 | 13.18 | 13.21 | 14.10 | 14.71 | 15.12 |
| 22          | 14.39 | 14.11 | 13.96 | 14.03 | 14.14 | 14.18 | 13.79 | 13.20 | 13.24 | 14.10 | 14.74 | 15.13 |
| 23          | 14.38 | 14.09 | 13.93 | 14.03 | 14.13 | 14.20 | 13.76 | 13.19 | 13.27 | 14.11 | 14.76 | 15.13 |
| 24          | 14.36 | 14.08 | 13.89 | 14.04 | 14.13 | 14.22 | 13.73 | 13.18 | 13.31 | 14.13 | 14.78 | 15.13 |
| 25          | 14.35 | 14.07 | 13.85 | 14.04 | 14.13 | 14.24 | 13.70 | 13.15 | 13.35 | 14.14 | 14.79 | 15.13 |
| 26          | 14.35 | 14.06 | 13.84 | 14.03 | 14.13 | 14.27 | 13.67 | 13.12 | 13.39 | 14.16 | 14.81 | 15.13 |
| 27          | 14.35 | 14.05 | 13.84 | 14.03 | 14.13 | 14.28 | 13.65 | 13.08 | 13.43 | 14.18 | 14.82 | 15.12 |
| 28          | 14.36 | 14.04 | 13.84 | 14.01 | 14.13 | 14.29 | 13.62 | 13.05 | 13.47 | 14.21 | 14.85 | 15.10 |
| 29          | 14.37 | 14.03 | 13.85 | 14.00 | ---   | 14.29 | 13.59 | 13.02 | 13.50 | 14.23 | 14.87 | 15.09 |
| 30          | 14.39 | 14.03 | 13.86 | 13.98 | ---   | 14.29 | 13.56 | 12.99 | 13.54 | 14.25 | 14.89 | 15.07 |
| 31          | 14.41 | ---   | 13.86 | 13.97 | ---   | 14.29 | ---   | 12.96 | ---   | 14.28 | 14.91 | ---   |
| MEAN        | 14.39 | 14.17 | 13.96 | 13.96 | 14.07 | 14.20 | 13.96 | 13.23 | 13.02 | 14.03 | 14.55 | 15.09 |
| MAX         | 14.47 | 14.38 | 14.08 | 14.04 | 14.14 | 14.32 | 14.26 | 13.54 | 13.54 | 14.28 | 14.91 | 15.13 |
| MIN         | 14.10 | 14.03 | 13.84 | 13.87 | 13.97 | 14.02 | 13.56 | 12.96 | 12.50 | 13.57 | 14.29 | 14.98 |
| CAL YR 1985 | MEAN  | 13.46 | MAX   | 15.34 | MIN   | 11.82 |       |       |       |       |       |       |
| WTR YR 1986 | MEAN  | 14.05 | MAX   | 15.13 | MIN   | 12.50 |       |       |       |       |       |       |



## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02277000 ST. LUCIE CANAL AT LOCK, NEAR STUART, FL  
(National stream-quality accounting network station)

LOCATION.--Lat 27°06'39", long 80°17'06", in Hanson Grant, T.39 S., R.41 E., Martin County, Hydrologic Unit 03090202, at upstream end of right lock wall, 6.3 mi southwest of Stuart.

DRAINAGE AREA.--Indeterminate.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1952 to current year. Gage height records collected at same site since December 1924 are contained in files of the Everglades Drainage District and U.S. Army Corps of Engineers.

REVISED RECORDS.--WRD FL-80-2A: 1978-1979.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Nov. 3, 1948, nonrecording gage at same site and at various datums. Sept. 5, 1952, to Jan. 1, 1955, auxiliary water-stage recorder at Arundel Bridge, 1.9 mi upstream, NGVD.

REMARKS.--Flow regulated by lock near Stuart.

COOPERATION.--Records provided by U.S. Army Corps of Engineers.

AVERAGE DISCHARGE.--34 years, 834 ft<sup>3</sup>/s, 604,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 11,500 ft<sup>3</sup>/s Mar. 26, 1970; lock closed and flow consists of leakage and lockage estimated as 4.0 ft<sup>3</sup>/s many days during 1976.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,160 ft<sup>3</sup>/s Aug. 19; minimum daily discharge, 12 ft<sup>3</sup>/s for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG   | SEP   |
|-------|------|------|------|------|------|------|------|------|------|------|-------|-------|
| 1     | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 12    | 660   |
| 2     | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 12    | 390   |
| 3     | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 12    | 390   |
| 4     | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 12    | 390   |
| 5     | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 12    | 480   |
| 6     | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 12    | 522   |
| 7     | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 12    | 416   |
| 8     | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 12    | 900   |
| 9     | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 12    | 515   |
| 10    | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 12    | 635   |
| 11    | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 12    | 880   |
| 12    | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 12    | 590   |
| 13    | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 12    | 760   |
| 14    | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 12    | 580   |
| 15    | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 703   | 487   |
| 16    | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 762   | 284   |
| 17    | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 424   | 14    |
| 18    | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 1010  | 132   |
| 19    | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 1160  | 275   |
| 20    | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 969   | 317   |
| 21    | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 903   | 350   |
| 22    | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 829   | 99    |
| 23    | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 493   | 57    |
| 24    | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 390   | 242   |
| 25    | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 256   | 200   |
| 26    | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 198   | 190   |
| 27    | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 247   | 190   |
| 28    | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 225   | 190   |
| 29    | 20   | 20   | 20   | 20   | ---  | 20   | 20   | 20   | 20   | 12   | 440   | 127   |
| 30    | 20   | 20   | 20   | 20   | ---  | 20   | 20   | 20   | 20   | 12   | 390   | 12    |
| 31    | 20   | ---  | 20   | 20   | ---  | 20   | ---  | 20   | ---  | 12   | 155   | ---   |
| TOTAL | 620  | 600  | 620  | 620  | 560  | 620  | 600  | 620  | 600  | 372  | 9722  | 11274 |
| MEAN  | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 | 12.0 | 314   | 376   |
| MAX   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 1160  | 900   |
| MIN   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 12   | 12    | 12    |
| AC-FT | 1230 | 1190 | 1230 | 1230 | 1110 | 1230 | 1190 | 1230 | 1190 | 738  | 19280 | 22360 |

CAL YR 1985 TOTAL 8558 MEAN 23.4 MAX 675 MIN 12 AC-FT 16970  
WTR YR 1986 TOTAL 26828 MEAN 73.5 MAX 1160 MIN 12 AC-FT 53210



## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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02277000 ST. LUCIE CANAL AT LOCK, NEAR STUART, FL--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1960 to September 1962, July 1964 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | TIME                                                                     | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010)                          | TEMPER-<br>ATURE<br>AIR<br>(DEG C)<br>(00020)                   | BARO-<br>METRIC<br>PRES-<br>SURE<br>(MM<br>OF<br>HG)<br>(00025)          | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027)            | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028)        | TUR-<br>BID-<br>ITY<br>(NTU)<br>(00076)                | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095)    | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300)                            | PH<br>(STAND-<br>ARD<br>UNITS)<br>(00400)         | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS)<br>(00403)                             |
|--------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------------------|
| OCT<br>07... | 1230                                                                     | 28.5                                                                     | 23.5                                                            | 759                                                                      | 1028                                                                          | 80010                                                                    | 2.5                                                    | 355                                                             | --                                                                        | 7.40                                              | 7.00                                                                         |
| DEC<br>09... | --                                                                       | 22.5                                                                     | 27.0                                                            | 763                                                                      | 1028                                                                          | 1028                                                                     | --                                                     | 875                                                             | 6.2                                                                       | 7.90                                              | --                                                                           |
| MAR<br>25... | 1100                                                                     | 21.5                                                                     | 25.5                                                            | 766                                                                      | 1028                                                                          | 80020                                                                    | 2.2                                                    | 842                                                             | 11.7                                                                      | 8.20                                              | 7.90                                                                         |
| JUN<br>24... | 1600                                                                     | 28.5                                                                     | 28.0                                                            | 760                                                                      | 1028                                                                          | 80020                                                                    | 3.0                                                    | 444                                                             | 7.7                                                                       | 7.80                                              | 7.60                                                                         |
| SEP<br>17... | 1000                                                                     | 29.0                                                                     | 34.5                                                            | 763                                                                      | 1028                                                                          | 80020                                                                    | 1.2                                                    | 473                                                             | 5.8                                                                       | 6.86                                              | 7.70                                                                         |
| DATE         | ALKA-<br>LITY<br>WH WAT<br>TOTAL<br>FIELD<br>MG/L AS<br>CACO3<br>(00410) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00666) | PHOS-<br>PHORUS,<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3)<br>(00900) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT FLD<br>MG/L AS<br>CACO3<br>(00902) |
| OCT<br>07... | 89                                                                       | 0.080                                                                    | --                                                              | --                                                                       | 1.2                                                                           | 0.470                                                                    | 0.260                                                  | 0.250                                                           | 0.250                                                                     | 130                                               | 38                                                                           |
| DEC<br>09... | 190                                                                      | --                                                                       | --                                                              | --                                                                       | --                                                                            | --                                                                       | --                                                     | --                                                              | --                                                                        | --                                                | --                                                                           |
| MAR<br>25... | --                                                                       | --                                                                       | --                                                              | --                                                                       | --                                                                            | --                                                                       | --                                                     | --                                                              | --                                                                        | 270                                               | 73                                                                           |
| JUN<br>24... | 90                                                                       | 0.160                                                                    | 0.200                                                           | 0.060                                                                    | 1.5                                                                           | 0.440                                                                    | 0.370                                                  | 0.310                                                           | 0.290                                                                     | 150                                               | 58                                                                           |
| SEP<br>17... | 100                                                                      | 0.160                                                                    | 0.070                                                           | 0.090                                                                    | 1.0                                                                           | 0.230                                                                    | 0.210                                                  | 0.200                                                           | 0.150                                                                     | 150                                               | 52                                                                           |

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02277000 ST. LUCIE CANAL AT LOCK, NEAR STUART, FL--Continued

## WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA)<br>(00915) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG)<br>(00925) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO<br>(00931) | PERCENT<br>SODIUM<br>(00932) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F)<br>(00950) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SIO2)<br>(00955) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS)<br>(01000) |
|--------------|---------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------|
| OCT<br>07... | 41                                                      | 5.9                                                             | 22                                                      | 0.9                                                | 27                           | 4.3                                                            | 38                                                             | 27                                                       | 0.20                                                          | 6.8                                                          | 1                                                       |
| DEC<br>09... | --                                                      | --                                                              | --                                                      | --                                                 | --                           | --                                                             | --                                                             | --                                                       | --                                                            | --                                                           | --                                                      |
| MAR<br>25... | 81                                                      | 16                                                              | 70                                                      | 2                                                  | 36                           | 5.0                                                            | 120                                                            | 66                                                       | 0.30                                                          | 6.7                                                          | <1                                                      |
| JUN<br>24... | 46                                                      | 7.9                                                             | 31                                                      | 1                                                  | 30                           | 5.4                                                            | 53                                                             | 42                                                       | 0.20                                                          | 6.4                                                          | 2                                                       |
| SEP<br>17... | 49                                                      | 6.9                                                             | 37                                                      | 1                                                  | 34                           | 3.4                                                            | 64                                                             | 36                                                       | 0.20                                                          | 7.2                                                          | 1                                                       |

| DATE         | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA)<br>(01005) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE)<br>(01010) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD)<br>(01025) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR)<br>(01030) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO)<br>(01035) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU)<br>(01040) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE)<br>(01046) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB)<br>(01049) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN)<br>(01056) | MOLYB-<br>DENUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MO)<br>(01060) |
|--------------|---------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|
| OCT<br>07... | 17                                                      | 0.8                                                             | <1                                                      | 3                                                              | <3                                                      | 8                                                       | 410                                                   | 7                                                     | 27                                                              | <10                                                              |
| DEC<br>09... | --                                                      | --                                                              | --                                                      | --                                                             | --                                                      | --                                                      | --                                                    | --                                                    | --                                                              | --                                                               |
| MAR<br>25... | 37                                                      | <0.5                                                            | <1                                                      | <1                                                             | <3                                                      | 3                                                       | 17                                                    | 2                                                     | 4                                                               | <10                                                              |
| JUN<br>24... | 20                                                      | <0.5                                                            | <1                                                      | <1                                                             | <3                                                      | 11                                                      | 290                                                   | 10                                                    | 38                                                              | <10                                                              |
| SEP<br>17... | 21                                                      | <0.5                                                            | <1                                                      | <1                                                             | <3                                                      | 2                                                       | 300                                                   | <5                                                    | 17                                                              | <10                                                              |

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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02277000 ST. LUCIE CANAL AT LOCK, NEAR STUART, FL--Continued

## WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI)<br>(01065) | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG)<br>(01075) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR)<br>(01080) | VANA-<br>DIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS V)<br>(01085) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN)<br>(01090) | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL)<br>(01106) | LITHIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS LI)<br>(01130) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE)<br>(01145) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML)<br>(31625) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML)<br>(31673) |
|--------------|---------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| OCT<br>07... | 8                                                       | <1                                                      | 340                                                             | <6                                                            | 35                                                    | 60                                                             | <4                                                      | <1                                                             | --                                                                        | --                                                                            |
| DEC<br>09... | --                                                      | --                                                      | --                                                              | --                                                            | --                                                    | --                                                             | --                                                      | --                                                             | 30                                                                        | 70                                                                            |
| MAR<br>25... | <1                                                      | <1                                                      | 1100                                                            | <6                                                            | 8                                                     | <10                                                            | 9                                                       | <1                                                             | 70                                                                        | 180                                                                           |
| JUN<br>24... | 5                                                       | <1                                                      | 470                                                             | <6                                                            | 140                                                   | 60                                                             | <4                                                      | <1                                                             | --                                                                        | --                                                                            |
| SEP<br>17... | 1                                                       | <1                                                      | 620                                                             | <6                                                            | 12                                                    | 30                                                             | 7                                                       | <1                                                             | 80                                                                        | 280                                                                           |

| DATE         | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L)<br>(70301) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM<br>(70331) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS PO4)<br>(71886) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG)<br>(71890) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) | SAM-<br>PLING<br>METHOD,<br>CODES<br>(82398) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM)<br>(90095) | ALKA-<br>LINEITY<br>LAB<br>AS<br>CACO3<br>(90410) | HARD-<br>NESS<br>NONCAR-<br>BONATE<br>(MG/L<br>AS<br>CACO3)<br>(95902) |
|--------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------------|
| OCT<br>07... | 236                                                                           | 200                                                                       | 56                                                                       | 0.80                                                    | <0.1                                                    | 9                                                     | --                                           | 355                                                                 | 94                                                | 38                                                                     |
| DEC<br>09... | --                                                                            | --                                                                        | 80                                                                       | --                                                      | --                                                      | 5                                                     | 10.0                                         | --                                                                  | --                                                | --                                                                     |
| MAR<br>25... | 507                                                                           | 480                                                                       | --                                                                       | --                                                      | --                                                      | --                                                    | 40.0                                         | 850                                                                 | 196                                               | 73                                                                     |
| JUN<br>24... | 300                                                                           | 250                                                                       | --                                                                       | --                                                      | --                                                      | --                                                    | 40.0                                         | 441                                                                 | 100                                               | 58                                                                     |
| SEP<br>17... | 316                                                                           | 270                                                                       | 50                                                                       | --                                                      | --                                                      | 4                                                     | 10.0                                         | 472                                                                 | 112                                               | 52                                                                     |

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

270022080094600 KITCHINGS CREEK NEAR HOBE SOUND, FL

LOCATION.--Lat 27°00'22", long 80°09'46", in NE¼ sec.8, T.40 S., R.42 E., Martin County, Hydrologic Unit 03090202, in Jonathan Dickinson State Park, near left bank on foot bridge 1.5 mi upstream from mouth, 2.2 mi south of State Highway 708, and 4.0 mi southwest of Hobe Sound.

DRAINAGE AREA.--Indeterminate.

## WATER DISCHARGE RECORDS

PERIOD OF RECORD.--December 1979 to September 1981, October 1984 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 6 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 229 ft<sup>3</sup>/s Nov. 24, 1984, gage height, 6.16 ft; minimum, 0.02 ft<sup>3</sup>/s June 3, 4, gage height, 1.24 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 167 ft<sup>3</sup>/s Dec. 5, gage height, 5.83 ft; minimum, 0.22 ft<sup>3</sup>/s May 31, gage height, 1.32 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT  | NOV   | DEC    | JAN  | FEB   | MAR   | APR   | MAY   | JUN    | JUL   | AUG   | SEP   |
|-------|------|-------|--------|------|-------|-------|-------|-------|--------|-------|-------|-------|
| 1     | 37   | 14    | 3.5    | 20   | 13    | 4.7   | 44    | 2.9   | .30    | 29    | 15    | 11    |
| 2     | 44   | 13    | 2.9    | 20   | 13    | 4.6   | 44    | 2.5   | .36    | 32    | 13    | 9.8   |
| 3     | 53   | 12    | 2.4    | 20   | 12    | 4.4   | 39    | 1.9   | .34    | 32    | 11    | 9.0   |
| 4     | 54   | 13    | 2.5    | 18   | 11    | 4.1   | 35    | 2.0   | .34    | 38    | 9.8   | 8.4   |
| 5     | 54   | 13    | 63     | 16   | 11    | 3.9   | 31    | 2.0   | .35    | 43    | 12    | 8.3   |
| 6     | 46   | 12    | 132    | 15   | 9.9   | 3.7   | 26    | 1.8   | .33    | 33    | 14    | 8.4   |
| 7     | 40   | 12    | 95     | 15   | 9.5   | 3.5   | 24    | 1.6   | .86    | 28    | 15    | 9.7   |
| 8     | 35   | 10    | 80     | 22   | 9.3   | 3.3   | 21    | 1.4   | 1.1    | 24    | 14    | 10    |
| 9     | 32   | 8.9   | 74     | 68   | 8.6   | 3.2   | 17    | 1.3   | .99    | 22    | 14    | 12    |
| 10    | 30   | 8.5   | 71     | 88   | 8.0   | 4.2   | 16    | 1.3   | .93    | 20    | 13    | 12    |
| 11    | 28   | 8.5   | 67     | 71   | 7.5   | 4.5   | 14    | 1.2   | .86    | 19    | 13    | 11    |
| 12    | 25   | 8.8   | 62     | 62   | 6.9   | 4.3   | 12    | 1.0   | .85    | 21    | 16    | 9.6   |
| 13    | 23   | 8.7   | 57     | 56   | 6.4   | 4.4   | 12    | .95   | .81    | 19    | 18    | 8.3   |
| 14    | 22   | 8.8   | 52     | 52   | 6.1   | 4.9   | 10    | .87   | .73    | 18    | 22    | 7.2   |
| 15    | 20   | 8.3   | 48     | 48   | 5.7   | 5.9   | 9.2   | .95   | 2.4    | 16    | 26    | 6.6   |
| 16    | 18   | 7.4   | 44     | 44   | 5.5   | 6.7   | 8.1   | .87   | 2.3    | 15    | 32    | 5.2   |
| 17    | 16   | 7.0   | 42     | 41   | 5.3   | 6.8   | 7.2   | .84   | 7.3    | 13    | 25    | 3.9   |
| 18    | 15   | 7.5   | 40     | 39   | 6.1   | 6.3   | 6.4   | .78   | 12     | 12    | 29    | 3.3   |
| 19    | 16   | 7.4   | 37     | 36   | 6.9   | 5.7   | 5.8   | .71   | 13     | 11    | 50    | 3.0   |
| 20    | 18   | 6.5   | 34     | 32   | 6.8   | 5.1   | 5.3   | .67   | 19     | 9.6   | 49    | 4.7   |
| 21    | 19   | 6.4   | 30     | 30   | 6.6   | 5.0   | 4.7   | .67   | 27     | 8.6   | 42    | 5.2   |
| 22    | 17   | 6.3   | 28     | 28   | 6.2   | 4.8   | 4.1   | .79   | 42     | 8.0   | 33    | 9.3   |
| 23    | 15   | 5.9   | 26     | 25   | 5.7   | 4.5   | 3.6   | .70   | 37     | 7.9   | 28    | 11    |
| 24    | 13   | 5.6   | 25     | 23   | 5.3   | 4.2   | 3.2   | .64   | 39     | 9.8   | 23    | 8.8   |
| 25    | 13   | 5.3   | 27     | 21   | 4.9   | 3.8   | 2.9   | .57   | 33     | 12    | 20    | 6.8   |
| 26    | 12   | 5.0   | 26     | 19   | 4.6   | 4.2   | 2.6   | .52   | 33     | 24    | 17    | 6.1   |
| 27    | 11   | 4.6   | 25     | 18   | 4.2   | 8.6   | 2.3   | .48   | 31     | 27    | 15    | 5.3   |
| 28    | 12   | 4.4   | 25     | 17   | 4.3   | 12    | 2.0   | .42   | 29     | 28    | 14    | 4.6   |
| 29    | 15   | 4.0   | 25     | 16   | ---   | 40    | 2.2   | .37   | 29     | 27    | 14    | 3.7   |
| 30    | 15   | 3.7   | 24     | 15   | ---   | 54    | 2.4   | .33   | 29     | 22    | 13    | 3.4   |
| 31    | 15   | ---   | 22     | 14   | ---   | 46    | ---   | .30   | ---    | 18    | 11    | ---   |
| TOTAL | 783  | 246.5 | 1292.3 | 1009 | 210.3 | 281.3 | 417.0 | 33.33 | 394.15 | 646.9 | 640.8 | 225.6 |
| MEAN  | 25.3 | 8.22  | 41.7   | 32.5 | 7.51  | 9.07  | 13.9  | 1.08  | 13.1   | 20.9  | 20.7  | 7.52  |
| MAX   | 54   | 14    | 132    | 88   | 13    | 54    | 44    | 2.9   | 42     | 43    | 50    | 12    |
| MIN   | 11   | 3.7   | 2.4    | 14   | 4.2   | 3.2   | 2.0   | .30   | .30    | 7.9   | 9.8   | 3.0   |
| AC-FT | 1550 | 489   | 2560   | 2000 | 417   | 558   | 827   | 66    | 782    | 1280  | 1270  | 447   |

CAL YR 1985 TOTAL 3560.95 MEAN 9.76 MAX 132 MIN .07 AC-FT 7060  
WTR YR 1986 TOTAL 6180.18 MEAN 16.9 MAX 132 MIN .30 AC-FT 12260

## 270022080094600 KITCHINGS CREEK NEAR HOBE SOUND, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1           | 4.10 | 3.07 | 2.02 | 3.39 | 3.03 | 2.17 | 4.28 | 1.91 | 1.35 | 3.77 | 3.11 | 2.72 |
| 2           | 4.28 | 3.02 | 1.94 | 3.35 | 2.97 | 2.16 | 4.27 | 1.85 | 1.38 | 3.89 | 2.94 | 2.66 |
| 3           | 4.56 | 2.93 | 1.85 | 3.37 | 2.91 | 2.13 | 4.11 | 1.76 | 1.37 | 3.87 | 2.79 | 2.58 |
| 4           | 4.56 | 2.94 | 1.87 | 3.29 | 2.86 | 2.10 | 3.99 | 1.77 | 1.37 | 4.09 | 2.68 | 2.53 |
| 5           | 4.59 | 2.99 | 3.69 | 3.17 | 2.80 | 2.07 | 3.84 | 1.77 | 1.37 | 4.23 | 2.88 | 2.52 |
| 6           | 4.37 | 2.93 | 5.60 | 3.12 | 2.75 | 2.04 | 3.69 | 1.74 | 1.37 | 3.91 | 3.04 | 2.54 |
| 7           | 4.17 | 2.85 | 5.30 | 3.10 | 2.69 | 2.01 | 3.58 | 1.69 | 1.50 | 3.73 | 3.08 | 2.65 |
| 8           | 4.01 | 2.74 | 5.14 | 3.42 | 2.67 | 1.98 | 3.43 | 1.65 | 1.58 | 3.57 | 3.05 | 2.68 |
| 9           | 3.91 | 2.63 | 5.04 | 4.90 | 2.61 | 1.95 | 3.28 | 1.63 | 1.56 | 3.47 | 3.02 | 2.81 |
| 10          | 3.84 | 2.59 | 4.97 | 5.23 | 2.55 | 2.09 | 3.16 | 1.63 | 1.55 | 3.40 | 2.94 | 2.88 |
| 11          | 3.76 | 2.59 | 4.88 | 5.03 | 2.50 | 2.14 | 3.03 | 1.61 | 1.53 | 3.35 | 2.98 | 2.78 |
| 12          | 3.66 | 2.62 | 4.77 | 4.82 | 2.44 | 2.11 | 2.92 | 1.59 | 1.53 | 3.43 | 3.16 | 2.64 |
| 13          | 3.58 | 2.61 | 4.64 | 4.68 | 2.38 | 2.12 | 2.84 | 1.56 | 1.52 | 3.33 | 3.27 | 2.51 |
| 14          | 3.51 | 2.62 | 4.51 | 4.56 | 2.34 | 2.17 | 2.75 | 1.54 | 1.50 | 3.30 | 3.48 | 2.40 |
| 15          | 3.43 | 2.56 | 4.39 | 4.46 | 2.31 | 2.30 | 2.63 | 1.56 | 1.79 | 3.21 | 3.63 | 2.34 |
| 16          | 3.30 | 2.48 | 4.30 | 4.34 | 2.28 | 2.37 | 2.53 | 1.54 | 1.81 | 3.07 | 3.89 | 2.17 |
| 17          | 3.21 | 2.44 | 4.24 | 4.25 | 2.25 | 2.39 | 2.44 | 1.53 | 2.41 | 2.96 | 3.61 | 2.01 |
| 18          | 3.14 | 2.49 | 4.17 | 4.18 | 2.34 | 2.34 | 2.36 | 1.52 | 2.92 | 2.88 | 3.74 | 1.92 |
| 19          | 3.19 | 2.47 | 4.07 | 4.08 | 2.43 | 2.26 | 2.29 | 1.50 | 2.97 | 2.78 | 4.41 | 1.87 |
| 20          | 3.34 | 2.39 | 3.95 | 3.95 | 2.42 | 2.20 | 2.23 | 1.49 | 3.32 | 2.66 | 4.41 | 2.09 |
| 21          | 3.36 | 2.37 | 3.83 | 3.88 | 2.39 | 2.19 | 2.16 | 1.49 | 3.68 | 2.57 | 4.21 | 2.16 |
| 22          | 3.27 | 2.37 | 3.73 | 3.78 | 2.35 | 2.16 | 2.08 | 1.52 | 4.20 | 2.51 | 3.92 | 2.56 |
| 23          | 3.12 | 2.32 | 3.66 | 3.66 | 2.30 | 2.12 | 2.01 | 1.50 | 4.05 | 2.50 | 3.71 | 2.77 |
| 24          | 3.02 | 2.29 | 3.60 | 3.58 | 2.25 | 2.08 | 1.96 | 1.48 | 4.12 | 2.68 | 3.52 | 2.54 |
| 25          | 2.97 | 2.25 | 3.70 | 3.51 | 2.20 | 2.04 | 1.91 | 1.46 | 3.93 | 2.87 | 3.38 | 2.34 |
| 26          | 2.94 | 2.21 | 3.67 | 3.42 | 2.15 | 2.08 | 1.87 | 1.44 | 3.90 | 3.60 | 3.25 | 2.26 |
| 27          | 2.83 | 2.17 | 3.61 | 3.35 | 2.10 | 2.56 | 1.82 | 1.42 | 3.85 | 3.68 | 3.13 | 2.17 |
| 28          | 2.91 | 2.13 | 3.61 | 3.28 | 2.11 | 2.86 | 1.78 | 1.40 | 3.77 | 3.74 | 3.04 | 2.09 |
| 29          | 3.15 | 2.08 | 3.62 | 3.21 | ---  | 4.01 | 1.80 | 1.38 | 3.76 | 3.69 | 3.02 | 1.96 |
| 30          | 3.16 | 2.05 | 3.57 | 3.14 | ---  | 4.54 | 1.84 | 1.37 | 3.75 | 3.50 | 2.90 | 1.92 |
| 31          | 3.10 | ---  | 3.49 | 3.08 | ---  | 4.32 | ---  | 1.35 | ---  | 3.30 | 2.79 | ---  |
| MEAN        | 3.56 | 2.54 | 3.92 | 3.83 | 2.48 | 2.39 | 2.76 | 1.57 | 2.49 | 3.34 | 3.32 | 2.40 |
| MAX         | 4.59 | 3.07 | 5.60 | 5.23 | 3.03 | 4.54 | 4.28 | 1.91 | 4.20 | 4.23 | 4.41 | 2.88 |
| MIN         | 2.83 | 2.05 | 1.85 | 3.08 | 2.10 | 1.95 | 1.78 | 1.35 | 1.35 | 2.50 | 2.68 | 1.87 |
| CAL YR 1985 | MEAN | 2.19 | MAX  | 5.60 | MIN  | 1.26 |      |      |      |      |      |      |
| WTR YR 1986 | MEAN | 2.89 | MAX  | 5.60 | MIN  | 1.35 |      |      |      |      |      |      |



## EVERGLADES AND SOUTHEASTERN COASTAL AREA

270022080094600 KITCHINGS CREEK NEAR HOBE SOUND, FL--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1980 to March 1982, October 1984 to current year.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

|       | DATE | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | TEMPER-<br>ATURE<br>AIR<br>(DEG C)<br>(00020) | BARO-<br>METRIC<br>PRES-<br>SURE<br>(MM<br>OF<br>HG)<br>(00025) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS)<br>(00061) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>(STAND-<br>ARD<br>UNITS)<br>(00400) |
|-------|------|------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------|-------------------------------------------|
| OCT   |      |      |                                                 |                                               |                                                                 |                                                                    |                                                                   |                                                            |                                                              |                                                |                                           |
| 22... | 1400 | 24.0 | 25.0                                            | 760                                           | 1028                                                            | 1028                                                               | 17                                                                | --                                                         | --                                                           | --                                             |                                           |
| DEC   |      |      |                                                 |                                               |                                                                 |                                                                    |                                                                   |                                                            |                                                              |                                                |                                           |
| 20... | 0940 | 17.0 | 17.5                                            | 764                                           | 1028                                                            | 1028                                                               | 34                                                                | 166                                                        | 5.4                                                          | --                                             |                                           |
| JAN   |      |      |                                                 |                                               |                                                                 |                                                                    |                                                                   |                                                            |                                                              |                                                |                                           |
| 13... | 1320 | 17.5 | 15.0                                            | 762                                           | 1028                                                            | 1028                                                               | 56                                                                | --                                                         | --                                                           | --                                             |                                           |
| FEB   |      |      |                                                 |                                               |                                                                 |                                                                    |                                                                   |                                                            |                                                              |                                                |                                           |
| 21... | 1230 | 20.0 | 30.0                                            | 757                                           | 1028                                                            | 1028                                                               | 6.7                                                               | 425                                                        | --                                                           | --                                             |                                           |
| MAR   |      |      |                                                 |                                               |                                                                 |                                                                    |                                                                   |                                                            |                                                              |                                                |                                           |
| 20... | 1430 | 23.5 | 28.0                                            | 757                                           | 1028                                                            | 1028                                                               | 5.0                                                               | 454                                                        | 7.7                                                          | 7.40                                           |                                           |
| APR   |      |      |                                                 |                                               |                                                                 |                                                                    |                                                                   |                                                            |                                                              |                                                |                                           |
| 14... | 1130 | 21.5 | 25.0                                            | 762                                           | 1028                                                            | 1028                                                               | 10                                                                | 276                                                        | >7.5                                                         | 7.54                                           |                                           |
| JUN   |      |      |                                                 |                                               |                                                                 |                                                                    |                                                                   |                                                            |                                                              |                                                |                                           |
| 05... | 1040 | 27.5 | --                                              | 8                                             | E1028                                                           | 1028                                                               | --                                                                | 885                                                        | --                                                           | 8.15                                           |                                           |

|       | DATE | ALKA-<br>LITY<br>WH WAT<br>TOTAL<br>FIELD<br>MG/L AS<br>CACO3<br>(00410) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>TOTAL<br>(MG/L<br>AS CL)<br>(00940) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) | SAM-<br>PLING<br>METHOD,<br>CODES<br>(82398) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM)<br>(90095) |
|-------|------|--------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------|
| OCT   |      |                                                                          |                                                                 |                                                                 |                                                                                |                                                                 |                                                        |                                                                         |                                                       |                                              |                                                                     |
| 22... | --   | 0.080                                                                    | 0.010                                                           | 1.6                                                             | 0.060                                                                          | 0.180                                                           | --                                                     | 6                                                                       | 20.0                                                  | --                                           |                                                                     |
| DEC   |      |                                                                          |                                                                 |                                                                 |                                                                                |                                                                 |                                                        |                                                                         |                                                       |                                              |                                                                     |
| 20... | --   | 0.020                                                                    | 0.010                                                           | 1.1                                                             | 0.040                                                                          | 0.060                                                           | 20                                                     | 2                                                                       | 40.0                                                  | --                                           |                                                                     |
| JAN   |      |                                                                          |                                                                 |                                                                 |                                                                                |                                                                 |                                                        |                                                                         |                                                       |                                              |                                                                     |
| 13... | --   | --                                                                       | --                                                              | --                                                              | --                                                                             | --                                                              | --                                                     | 1690                                                                    | 40.0                                                  | --                                           |                                                                     |
| FEB   |      |                                                                          |                                                                 |                                                                 |                                                                                |                                                                 |                                                        |                                                                         |                                                       |                                              |                                                                     |
| 21... | --   | 0.020                                                                    | 0.010                                                           | 0.91                                                            | 0.020                                                                          | 0.040                                                           | --                                                     | 2                                                                       | 40.0                                                  | --                                           |                                                                     |
| MAR   |      |                                                                          |                                                                 |                                                                 |                                                                                |                                                                 |                                                        |                                                                         |                                                       |                                              |                                                                     |
| 20... | 157  | 0.010                                                                    | <0.010                                                          | 1.1                                                             | 0.040                                                                          | 0.060                                                           | 49                                                     | 5                                                                       | 30.0                                                  | 451                                          |                                                                     |
| APR   |      |                                                                          |                                                                 |                                                                 |                                                                                |                                                                 |                                                        |                                                                         |                                                       |                                              |                                                                     |
| 14... | 85   | 0.010                                                                    | 0.010                                                           | 1.1                                                             | 0.010                                                                          | 0.070                                                           | 22                                                     | 4                                                                       | 40.0                                                  | --                                           |                                                                     |
| JUN   |      |                                                                          |                                                                 |                                                                 |                                                                                |                                                                 |                                                        |                                                                         |                                                       |                                              |                                                                     |
| 05... | --   | 0.120                                                                    | 0.010                                                           | 0.86                                                            | 0.080                                                                          | 0.140                                                           | --                                                     | --                                                                      | 40.0                                                  | --                                           |                                                                     |

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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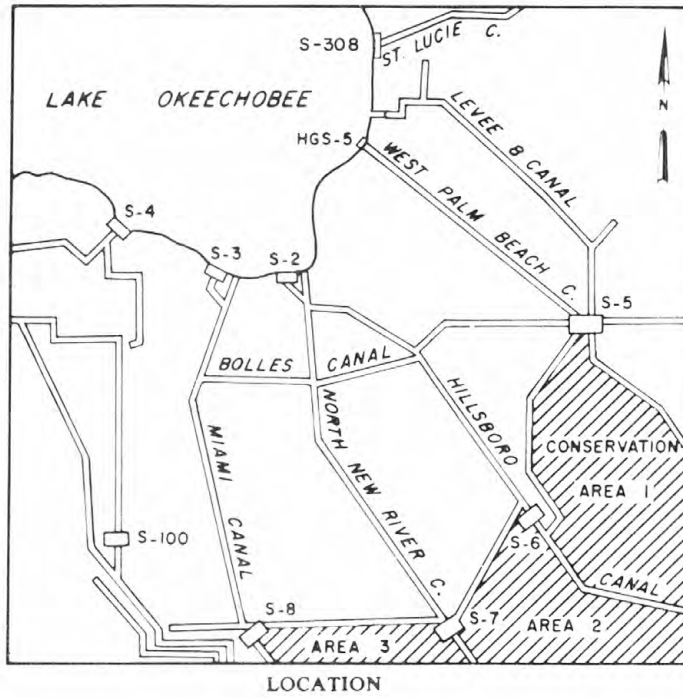
270022080094600 KITCHINGS CREEK NEAR HOBE SOUND, FL--Continued

## WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

|              | DATE | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | TEMPER-<br>ATURE<br>AIR<br>(DEG C)<br>(00020) | BARO-<br>METRIC<br>PRES-<br>SURE<br>(MM<br>OF<br>HG)<br>(00025) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS)<br>(00061) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>(STAND-<br>ARD<br>UNITS)<br>(00400) |
|--------------|------|------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------|-------------------------------------------|
| JUL<br>08... | 1010 | 27.0 | 32.0                                            | 760                                           | 1028                                                            | 1028                                                               | 24                                                                | 272                                                        | 5.7                                                          | 6.63                                           |                                           |
| AUG<br>11... | 1345 | 26.5 | 31.0                                            | 762                                           | 1028                                                            | 1028                                                               | 17                                                                | 291                                                        | 705                                                          | 7.30                                           |                                           |
| SEP<br>16... | 0900 | 26.0 | 29.0                                            | 763                                           | 1028                                                            | 1028                                                               | 5.1                                                               | 443                                                        | 7.3                                                          | 7.03                                           |                                           |

|              | DATE | ALKA-<br>LITY<br>WH WAT<br>TOTAL<br>FIELD<br>MG/L AS<br>CACO3<br>(00410) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>TOTAL<br>(MG/L<br>AS CL)<br>(00940) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) | SAM-<br>PLING<br>METHOD,<br>CODES<br>(82398) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM)<br>(90095) |
|--------------|------|--------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------|
| JUL<br>08... | --   | 0.060                                                                    | 0.010                                                           | 1.3                                                             | 0.070                                                                         | 0.130                                                           | --                                                     | 12                                                                      | 40.0                                                 | --                                           |                                                                     |
| AUG<br>11... | 72   | 0.040                                                                    | 0.010                                                           | 1.2                                                             | 0.040                                                                         | 0.080                                                           | 34                                                     | 4                                                                       | 40.0                                                 | 302                                          |                                                                     |
| SEP<br>16... | --   | 0.070                                                                    | 0.010                                                           | 0.98                                                            | 0.060                                                                         | 0.080                                                           | 48                                                     | 16                                                                      | 40.0                                                 | --                                           |                                                                     |



### TYPICAL FLOW PATTERNS AT HURRICANE GATE STRUCTURES

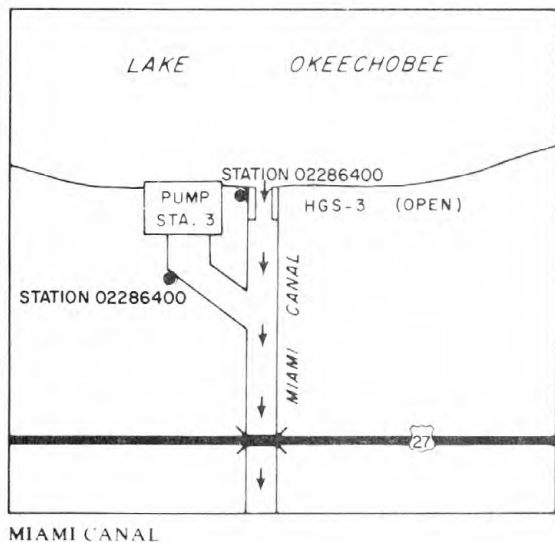
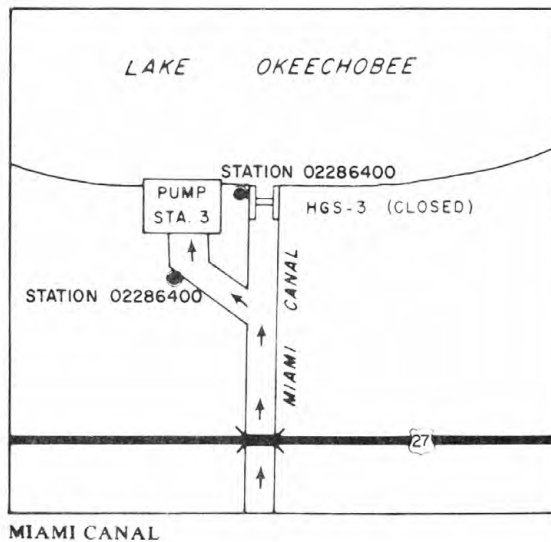
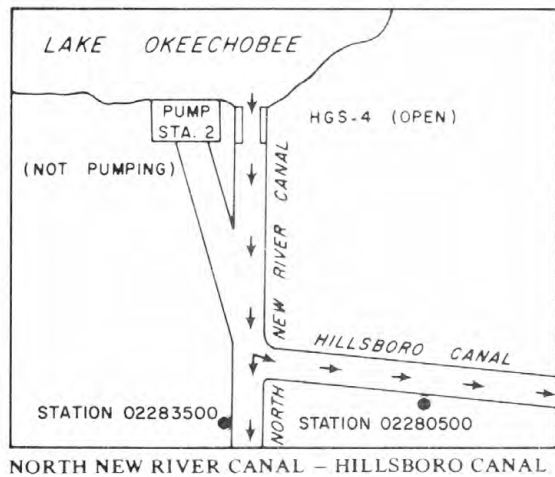
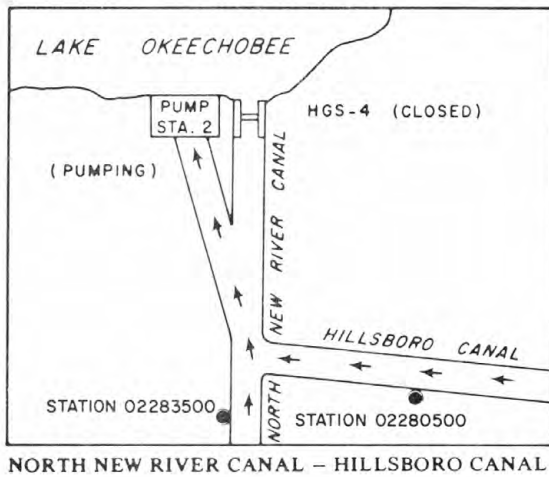
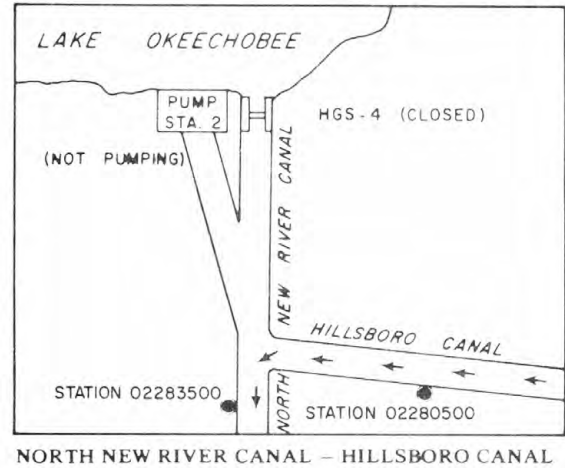


Figure 8. Typical flow patterns at Hurricane Gate Structures.

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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## 02276870 ST. LUCIE CANAL AT LAKE OKEECHOBEE, FL

LOCATION.--Lat 26°59'00", long 80°37'00", in sec.22, T.40 S., R.37 E., Martin County, Hydrologic Unit 03090202, on right bank in control house of structure 308 at Lake Okeechobee, 0.1 mi west of U.S. Highway 441, and 24 mi upstream from control structure 80 (revised).

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1931 to September 1952, October 1981 to current year. Prior to October 1946, published as St. Lucie Canal at lock 1, at Lake Okeechobee. Previously published as station number 02276500. All data stored under current station number.

GAGE.--Water-stage recorder, electromagnetic velocity meter recorder, and gate-opening indicators. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Prior to Jan. 17, 1934, staff gage at site 0.4 mi downstream at different datum. Jan. 17, 1934, to Mar. 15, 1951, water-stage recorder at site 0.8 mi downstream at datum 1.56 ft lower. Mar. 16, 1951, to September 1952, water-stage recorder at bridge on U.S. Highway 441 at present datum. Jan. 17, 1934, to September 1952, auxiliary water-stage recorder 10.9 mi downstream.

REMARKS.--No estimated daily discharges. Records poor. Flow regulated by control structure 308 gates and lock at Lake Okeechobee. Flow frequently reversed during and after periods of heavy rainfall by pumpage into the canal from agricultural lands in the Everglades (negative figures indicate reverse flow towards Lake Okeechobee). Discharge computed from relations between discharge, head, gate openings, and slope.

COOPERATION.--Lockage and gate-operation record provided by U.S. Army Corps of Engineers.

AVERAGE DISCHARGE.--26 years (1931-52, 1981-86), 1,118 ft<sup>3</sup>/s, 810,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 8,150 ft<sup>3</sup>/s Feb. 26, 1983; maximum gage height, 18.80 ft Mar. 24, 1983; maximum daily reverse flow, 3,060 ft<sup>3</sup>/s Sept. 24, 1985; minimum gage height, 10.28 ft Mar. 5, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,940 ft<sup>3</sup>/s Dec. 26; maximum gage height, 16.09 ft Sept. 9; maximum daily reverse flow, 4,220 ft<sup>3</sup>/s Dec. 28; no flow for many days; minimum gage height, 12.51 ft June 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT    | NOV    | DEC   | JAN   | FEB   | MAR     | APR   | MAY   | JUN    | JUL    | AUG     | SEP  |
|-------|--------|--------|-------|-------|-------|---------|-------|-------|--------|--------|---------|------|
| 1     | -2200  | .00    | -247  | 11    | -349  | 624     | 339   | 681   | 198    | -338   | -1270   | .00  |
| 2     | -1460  | .00    | 677   | 249   | -240  | 260     | 848   | 841   | 66     | -808   | -1260   | .00  |
| 3     | -662   | .00    | 1060  | 198   | 343   | 91      | -115  | 908   | 135    | -399   | -1120   | .00  |
| 4     | -588   | .00    | 1200  | -82   | 823   | 8.7     | -74   | 1190  | 114    | -143   | 802     | .00  |
| 5     | -560   | -30    | -720  | -58   | 1160  | 38      | -124  | 90    | -20    | -51    | 1980    | .00  |
| 6     | -590   | -26    | -1260 | 26    | 340   | -28     | -280  | 173   | -42    | 13     | 1910    | .00  |
| 7     | -746   | -14    | -941  | -161  | 426   | -75     | -34   | 374   | -72    | -671   | 1040    | .00  |
| 8     | -435   | -7.1   | -897  | 75    | -465  | -38     | 391   | 248   | -67    | -586   | -122    | .00  |
| 9     | -472   | -3.0   | -429  | -235  | 605   | 16      | 742   | 390   | -24    | -334   | -36     | .00  |
| 10    | -350   | 5.4    | 561   | -518  | 327   | -90     | 212   | 1040  | -155   | -157   | -380    | .00  |
| 11    | -296   | 7.7    | -95   | -480  | 223   | -148    | 863   | -87   | -34    | -107   | -175    | .00  |
| 12    | -291   | 20     | -319  | -431  | 863   | 3.0     | 416   | -222  | 138    | 343    | 63      | .00  |
| 13    | -333   | 25     | 391   | -230  | 221   | -62     | 539   | 202   | 42     | 469    | .00     | .00  |
| 14    | -110   | 19     | -635  | -288  | 364   | -122    | 829   | 277   | -131   | -260   | -227    | .00  |
| 15    | 35     | 9.9    | 771   | -256  | -204  | -165    | 642   | 262   | -125   | -740   | -97     | .00  |
| 16    | 148    | .30    | -236  | -245  | -209  | -195    | 575   | -86   | -424   | -450   | .00     | .00  |
| 17    | 309    | 12     | 24    | -231  | 255   | -53     | 412   | -79   | -513   | -81    | .00     | .00  |
| 18    | 142    | 12     | 337   | -241  | 165   | -46     | 667   | -146  | -726   | 33     | .00     | .00  |
| 19    | -24    | -8.7   | -633  | -268  | -332  | -109    | 787   | -13   | -709   | -391   | .00     | .00  |
| 20    | -343   | -17    | -222  | -229  | -427  | -157    | 399   | -90   | -1010  | -393   | .00     | .00  |
| 21    | -236   | -7.5   | -1350 | -201  | -46   | -146    | 595   | -251  | -1300  | -927   | .00     | .00  |
| 22    | -25    | 8.3    | -1030 | -165  | 141   | 15      | 231   | 17    | -1630  | -1190  | .00     | .00  |
| 23    | 115    | -3.0   | -465  | -86   | -153  | -170    | 703   | 217   | -882   | -872   | .00     | .00  |
| 24    | 28     | -1.6   | 892   | -137  | 476   | -59     | 782   | 24    | -1080  | -862   | .00     | .00  |
| 25    | 19     | 12     | 711   | -116  | 599   | -53     | 587   | 90    | -649   | -1050  | .00     | .00  |
| 26    | -173   | 7.6    | 1460  | 14    | 1220  | -22     | 716   | 136   | -817   | -1060  | .00     | .00  |
| 27    | -214   | -19    | 662   | 171   | 217   | -150    | 573   | 508   | -576   | -897   | .00     | .00  |
| 28    | -270   | -18    | -2080 | 73    | 548   | -127    | 665   | 264   | -670   | -1170  | .00     | .00  |
| 29    | -308   | -25    | -1080 | 73    | ---   | -36     | 723   | 89    | -716   | -1250  | .00     | .00  |
| 30    | -297   | -16    | -382  | -187  | ---   | 8.1     | 896   | 189   | -909   | -563   | .00     | .00  |
| 31    | -145   | ---    | -19   | -63   | ---   | -47     | ---   | 187   | ---    | -805   | .00     | ---  |
| TOTAL | -10332 | -54.00 | -4294 | -4018 | 6891  | -1034.2 | 14505 | 7423  | -12588 | -15697 | 1108.00 | .00  |
| MEAN  | -333   | -1.80  | -139  | -130  | 246   | -33.4   | 484   | 239   | -420   | -506   | 35.7    | .000 |
| MAX   | 309    | 25     | 1460  | 249   | 1220  | 624     | 896   | 1190  | 198    | 469    | 1980    | .00  |
| MIN   | -2200  | -30    | -2080 | -518  | -465  | -195    | -280  | -251  | -1630  | -1250  | -1270   | .00  |
| AC-FT | -20490 | -107   | -8520 | -7970 | 13670 | -2050   | 28770 | 14720 | -24970 | -31130 | 2200    | .00  |

CAL YR 1985 TOTAL -36446.10 MEAN -99.9 MAX 2840 MIN -4280 AC-FT -72290  
WTR YR 1986 TOTAL -18090.20 MEAN -49.6 MAX 1980 MIN -2200 AC-FT -35880

02276870 ST. LUCIE CANAL AT LAKE OKEECHOBEE, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT        | NOV   | DEC       | JAN       | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|------------|-------|-----------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 14.36      | 14.51 | 14.09     | 13.89     | 14.10 | 14.48 | 14.29 | 13.55 | 12.93 | 13.66 | 14.33 | 14.95 |
| 2           | 14.38      | 14.40 | 14.11     | 13.90     | 14.13 | 14.23 | 14.32 | 13.56 | 12.93 | 13.71 | 14.32 | 14.99 |
| 3           | 14.41      | 14.41 | 14.00     | 13.89     | 14.13 | 14.17 | 14.27 | 13.51 | 12.91 | 13.82 | 14.33 | 15.02 |
| 4           | 14.46      | 14.53 | 13.97     | 13.89     | 14.13 | 14.18 | 14.22 | 13.34 | 12.83 | 13.78 | 14.35 | 15.05 |
| 5           | 14.54      | 14.49 | 14.01     | 13.93     | 14.14 | 14.15 | 14.20 | 13.29 | 12.88 | 13.81 | 14.35 | 15.05 |
| 6           | 14.53      | 14.37 | 14.15     | 13.86     | 14.17 | 14.17 | 14.19 | 13.38 | 12.92 | 13.90 | 14.35 | 15.10 |
| 7           | 14.39      | 14.31 | 14.08     | 13.89     | 14.15 | 14.11 | 14.23 | 13.38 | 12.94 | 13.96 | 14.37 | 15.12 |
| 8           | 14.42      | 14.29 | 14.10     | 13.88     | 14.17 | 14.03 | 14.31 | 13.39 | 12.94 | 14.01 | 14.37 | 15.09 |
| 9           | 14.43      | 14.27 | 14.11     | 13.83     | 14.15 | 13.97 | 14.43 | 13.42 | 12.91 | 14.07 | 14.35 | 15.06 |
| 10          | 14.51      | 14.29 | 14.07     | 14.01     | 14.17 | 14.05 | 14.17 | 13.30 | 12.89 | 14.11 | 14.31 | 15.12 |
| 11          | 14.50      | 14.27 | 14.07     | 14.20     | 14.23 | 14.27 | 14.18 | 13.29 | 12.90 | 14.12 | 14.27 | 15.14 |
| 12          | 14.51      | 14.26 | 14.12     | 14.09     | 14.22 | 14.29 | 14.15 | 13.34 | 12.93 | 14.18 | 14.34 | 15.17 |
| 13          | 14.49      | 14.23 | 14.14     | 14.18     | 14.06 | 14.28 | 14.12 | 13.32 | 13.00 | 14.19 | 14.44 | 15.20 |
| 14          | 14.47      | 14.20 | 14.21     | 14.14     | 14.08 | 14.35 | 14.03 | 13.25 | 12.98 | 14.18 | 14.50 | 15.20 |
| 15          | 14.43      | 14.17 | 14.05     | 14.11     | 14.15 | 14.36 | 14.06 | 13.16 | 12.98 | 14.17 | 14.55 | 15.19 |
| 16          | 14.41      | 14.16 | 14.02     | 14.07     | 14.04 | 14.34 | 14.18 | 13.14 | 13.02 | 14.16 | 14.59 | 15.19 |
| 17          | 14.36      | 14.15 | 14.04     | 14.10     | 14.11 | 14.38 | 14.13 | 13.17 | 13.00 | 14.16 | 14.64 | 15.16 |
| 18          | 14.36      | 14.03 | 14.02     | 14.13     | 14.19 | 14.29 | 13.98 | 13.16 | 13.01 | 14.16 | 14.68 | 15.16 |
| 19          | 14.34      | 13.93 | 13.98     | 14.21     | 14.21 | 14.34 | 13.86 | 13.15 | 13.06 | 14.16 | 14.75 | 15.17 |
| 20          | 14.37      | 14.06 | 13.98     | 14.24     | 14.22 | 14.42 | 13.85 | 13.18 | 13.16 | 14.19 | 14.79 | 15.18 |
| 21          | 14.37      | 14.13 | 14.00     | 14.17     | 14.20 | 14.39 | 13.92 | 13.17 | 13.27 | 14.19 | 14.74 | 15.26 |
| 22          | 14.35      | 14.20 | 13.98     | 14.14     | 14.20 | 14.38 | 14.01 | 13.29 | 13.30 | 14.20 | 14.76 | 15.26 |
| 23          | 14.33      | 14.19 | 13.97     | 14.18     | 14.24 | 14.23 | 13.85 | 13.23 | 13.37 | 14.21 | 14.76 | 15.28 |
| 24          | 14.32      | 14.14 | 13.95     | 14.19     | 14.28 | 14.23 | 13.71 | 13.17 | 13.44 | 14.23 | 14.81 | 15.27 |
| 25          | 14.32      | 14.09 | 14.04     | 14.19     | 14.29 | 14.20 | 13.73 | 13.17 | 13.44 | 14.25 | 14.82 | 15.24 |
| 26          | 14.30      | 14.08 | 13.97     | 14.38     | 14.21 | 14.25 | 13.74 | 13.15 | 13.43 | 14.25 | 14.84 | 15.24 |
| 27          | 14.27      | 14.08 | 13.89     | 14.57     | 14.27 | 14.29 | 13.72 | 13.08 | 13.44 | 14.29 | 14.89 | 15.24 |
| 28          | 14.36      | 14.08 | 13.87     | 14.21     | 14.21 | 14.29 | 13.70 | 13.02 | 13.51 | 14.33 | 14.95 | 15.23 |
| 29          | 14.38      | 14.08 | 13.92     | 14.12     | ---   | 14.28 | 13.66 | 13.00 | 13.55 | 14.33 | 14.96 | 15.20 |
| 30          | 14.43      | 14.07 | 13.90     | 14.13     | ---   | 14.30 | 13.60 | 12.98 | 13.59 | 14.38 | 14.91 | 15.21 |
| 31          | 14.42      | ---   | 13.88     | 14.12     | ---   | 14.29 | ---   | 12.97 | ---   | 14.38 | 14.91 | ---   |
| MEAN        | 14.40      | 14.22 | 14.02     | 14.09     | 14.17 | 14.26 | 14.03 | 13.24 | 13.12 | 14.11 | 14.59 | 15.16 |
| MAX         | 14.54      | 14.53 | 14.21     | 14.57     | 14.29 | 14.48 | 14.43 | 13.56 | 13.59 | 14.38 | 14.96 | 15.28 |
| MIN         | 14.27      | 13.93 | 13.87     | 13.83     | 14.04 | 13.97 | 13.60 | 12.97 | 12.83 | 13.66 | 14.27 | 14.95 |
| CAL YR 1985 | MEAN 13.52 |       | MAX 15.39 | MIN 11.83 |       |       |       |       |       |       |       |       |
| WTR YR 1986 | MEAN 14.12 |       | MAX 15.28 | MIN 12.83 |       |       |       |       |       |       |       |       |



## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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02276871 ST. LUCIE CANAL BELOW S-308 AT PORT MAYACA, FL

LOCATION.--Lat 26°59'00", long 80°37'00", in sec.22, T.40 S., R.37 E., Martin County, Hydrologic Unit 03090202, on right bank in control house downstream of structure 308 at Lake Okeechobee, 0.1 mi west of U.S. Highway 441, and 24 miles upstream from control structure 80. (Revised).

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1981 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark).

REMARKS.--Water level affected by regulation of control structure 308 gates and lock at Lake Okeechobee, and structure 80.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 18.13 ft Mar. 1, 1983; minimum gage height, 8.95 ft Jan. 14, 17, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 15.35 ft Aug. 15; minimum gage height, 12.34 ft June 12.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1    | 14.67 | 14.55 | 14.10 | 13.89 | 14.11 | 14.19 | 14.26 | 13.52 | 12.91 | 13.66 | 14.39 | 14.40 |
| 2    | 14.65 | 14.25 | 14.09 | 13.86 | 14.13 | 14.16 | 14.26 | 13.52 | 12.93 | 13.74 | 14.38 | 14.34 |
| 3    | 14.66 | 14.32 | 13.98 | 13.86 | 14.12 | 14.15 | 14.27 | 13.47 | 12.89 | 13.83 | 14.38 | 14.27 |
| 4    | 14.66 | 14.56 | 13.95 | 13.90 | 14.09 | 14.17 | 14.22 | 13.28 | 12.82 | 13.78 | 14.28 | 14.14 |
| 5    | 14.72 | 14.62 | 14.02 | 13.94 | 14.04 | 14.13 | 14.21 | 13.29 | 12.88 | 13.80 | 14.22 | 14.41 |
| 6    | 14.73 | 14.41 | 14.18 | 13.86 | 14.16 | 14.17 | 14.20 | 13.37 | 12.92 | 13.90 | 14.23 | 14.37 |
| 7    | 14.56 | 14.32 | 14.11 | 13.91 | 14.14 | 14.12 | 14.23 | 13.36 | 12.94 | 13.98 | 14.31 | 14.39 |
| 8    | 14.46 | 14.30 | 14.12 | 13.87 | 14.19 | 14.04 | 14.28 | 13.38 | 12.94 | 14.03 | 14.38 | 14.19 |
| 9    | 14.47 | 14.28 | 14.12 | 13.86 | 14.13 | 13.97 | 14.39 | 13.39 | 12.91 | 14.07 | 14.35 | 14.34 |
| 10   | 14.60 | 14.28 | 14.06 | 14.18 | 14.15 | 14.08 | 14.17 | 13.22 | 12.90 | 14.12 | 14.32 | 14.45 |
| 11   | 14.56 | 14.26 | 14.07 | 14.39 | 14.23 | 14.30 | 14.13 | 13.29 | 12.89 | 14.12 | 14.28 | 14.27 |
| 12   | 14.56 | 14.24 | 14.12 | 14.22 | 14.17 | 14.29 | 14.13 | 13.35 | 12.92 | 14.15 | 14.33 | 14.37 |
| 13   | 14.57 | 14.20 | 14.13 | 14.22 | 14.05 | 14.28 | 14.09 | 13.31 | 12.99 | 14.17 | 14.44 | 14.42 |
| 14   | 14.48 | 14.18 | 14.22 | 14.19 | 14.06 | 14.38 | 13.99 | 13.24 | 12.98 | 14.19 | 14.76 | 14.17 |
| 15   | 14.43 | 14.17 | 14.02 | 14.15 | 14.16 | 14.39 | 14.04 | 13.14 | 12.98 | 14.19 | 14.67 | 14.44 |
| 16   | 14.39 | 14.16 | 14.03 | 14.11 | 14.05 | 14.37 | 14.15 | 13.14 | 13.03 | 14.17 | 14.39 | 14.15 |
| 17   | 14.30 | 14.13 | 14.04 | 14.14 | 14.10 | 14.38 | 14.12 | 13.17 | 13.02 | 14.16 | 14.29 | 14.21 |
| 18   | 14.34 | 14.02 | 14.01 | 14.16 | 14.18 | 14.29 | 13.94 | 13.16 | 13.04 | 14.16 | 14.39 | 14.38 |
| 19   | 14.35 | 13.95 | 14.00 | 14.26 | 14.23 | 14.35 | 13.82 | 13.15 | 13.09 | 14.17 | 14.49 | 14.32 |
| 20   | 14.46 | 14.08 | 13.99 | 14.27 | 14.24 | 14.44 | 13.84 | 13.17 | 13.20 | 14.21 | 14.33 | 14.28 |
| 21   | 14.42 | 14.13 | 14.05 | 14.20 | 14.21 | 14.42 | 13.89 | 13.18 | 13.33 | 14.23 | 14.29 | 14.33 |
| 22   | 14.35 | 14.20 | 14.01 | 14.16 | 14.20 | 14.38 | 14.01 | 13.29 | 13.41 | 14.27 | 14.33 | 14.16 |
| 23   | 14.32 | 14.19 | 13.98 | 14.19 | 14.25 | 14.26 | 13.82 | 13.21 | 13.41 | 14.25 | 14.43 | 14.39 |
| 24   | 14.32 | 14.14 | 13.92 | 14.20 | 14.24 | 14.24 | 13.67 | 13.18 | 13.49 | 14.26 | 14.30 | 14.26 |
| 25   | 14.32 | 14.08 | 14.01 | 14.20 | 14.27 | 14.21 | 13.70 | 13.16 | 13.46 | 14.30 | 14.31 | 14.39 |
| 26   | 14.33 | 14.06 | 13.92 | 14.38 | 14.12 | 14.25 | 13.72 | 13.13 | 13.46 | 14.30 | 14.38 | 14.33 |
| 27   | 14.34 | 14.10 | 13.84 | 14.50 | 14.26 | 14.32 | 13.70 | 13.06 | 13.46 | 14.34 | 14.43 | 14.26 |
| 28   | 14.41 | 14.10 | 13.99 | 14.19 | 14.18 | 14.31 | 13.67 | 13.01 | 13.53 | 14.38 | 14.31 | 14.36 |
| 29   | 14.45 | 14.11 | 13.96 | 14.10 | ---   | 14.29 | 13.63 | 12.99 | 13.58 | 14.40 | 14.33 | 14.24 |
| 30   | 14.49 | 14.09 | 13.91 | 14.17 | ---   | 14.30 | 13.55 | 12.98 | 13.62 | 14.40 | 14.26 | 13.98 |
| 31   | 14.50 | ---   | 13.88 | 14.13 | ---   | 14.29 | ---   | 12.96 | ---   | 14.42 | 14.26 | ---   |
| MEAN | 14.48 | 14.22 | 14.03 | 14.12 | 14.16 | 14.26 | 14.00 | 13.23 | 13.13 | 14.13 | 14.36 | 14.30 |
| MAX  | 14.73 | 14.62 | 14.22 | 14.50 | 14.27 | 14.44 | 14.39 | 13.52 | 13.62 | 14.42 | 14.76 | 14.45 |
| MIN  | 14.30 | 13.95 | 13.84 | 13.86 | 14.04 | 13.97 | 13.55 | 12.96 | 12.82 | 13.66 | 14.22 | 13.98 |

CAL YR 1985 MEAN 13.45 MAX 14.73 MIN 11.83  
WTR YR 1986 MEAN 14.03 MAX 14.76 MIN 12.82

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

## 02277600 LOXAHATCHEE RIVER NEAR JUPITER, FL

LOCATION.--Lat 26°56'20", long 80°10'31", in NE¼ sec.6, T.41 S., R.42 E., Palm Beach County, Hydrologic Unit 03090202, near left bank, 0.2 mi downstream from State Highway 706, 1.3 mi upstream from Florida's Turnpike and 5.2 mi west of Jupiter.

DRAINAGE AREA.--Indeterminate.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except those for estimated daily discharge, which are poor. This station provides information on the freshwater inflow to the Loxahatchee estuary from the headwaters area.

AVERAGE DISCHARGE.--15 years, 68.1 ft<sup>3</sup>/s, 49,340 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,040 ft<sup>3</sup>/s Nov. 17, 1982; maximum gage height, 14.80 ft Sept. 25, 1983; no flow on May 4-7, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 545 ft<sup>3</sup>/s Mar. 27, gage height, 13.35 ft; minimum, 22 ft<sup>3</sup>/s May 31, June 11, 12, gage height, 8.47 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1     | 134  | 86   | 76   | 49   | 95   | 69   | 99   | 59   | 23   | 145  | 129  | 110  |
| 2     | 121  | 80   | 75   | 52   | 94   | 66   | 103  | 34   | 25   | 132  | 124  | 111  |
| 3     | 159  | 78   | 73   | 67   | 91   | 65   | 146  | 31   | 23   | 126  | 122  | 111  |
| 4     | 175  | 74   | 72   | 69   | 89   | 60   | 141  | 31   | 23   | 129  | 122  | 110  |
| 5     | 166  | 72   | 93   | 69   | 86   | 50   | 140  | 30   | 23   | 131  | 128  | 112  |
| 6     | 133  | 72   | 123  | 69   | 84   | 49   | 135  | 31   | 23   | 127  | 125  | 114  |
| 7     | 111  | 74   | 108  | 67   | 84   | 46   | 131  | 31   | 23   | 131  | 120  | 125  |
| 8     | 97   | 91   | 101  | 68   | 89   | 42   | 127  | 32   | 24   | 128  | 119  | 129  |
| 9     | 94   | 105  | 97   | 116  | 88   | 41   | 125  | 31   | 24   | 122  | 115  | 162  |
| 10    | 94   | 106  | 95   | 183  | 86   | 49   | 122  | 31   | 24   | 118  | 112  | e160 |
| 11    | 87   | 105  | 92   | 129  | 85   | 68   | 122  | 31   | 23   | 118  | 115  | e150 |
| 12    | 84   | 104  | 89   | 97   | 81   | 98   | 121  | 32   | 24   | 130  | 121  | e140 |
| 13    | 80   | 110  | 95   | 93   | 78   | 95   | 120  | 44   | 25   | 126  | 123  | e130 |
| 14    | 78   | 106  | 143  | 134  | 77   | 95   | 120  | 46   | 24   | 137  | 144  | e120 |
| 15    | 76   | 103  | 141  | 138  | 75   | 119  | 120  | 45   | 29   | 126  | 130  | e110 |
| 16    | 75   | 102  | 126  | 137  | 70   | 152  | 118  | 44   | 35   | 114  | 124  | e100 |
| 17    | 73   | 101  | 106  | 139  | 69   | 120  | 115  | 43   | 49   | 111  | 122  | e 90 |
| 18    | 73   | 82   | 102  | 139  | 71   | 106  | 111  | 42   | 82   | 111  | 120  | e 80 |
| 19    | 76   | 54   | 99   | 139  | 73   | 101  | 104  | 43   | 88   | 110  | 120  | e 70 |
| 20    | 95   | 76   | 95   | 135  | 72   | 97   | 102  | 41   | 112  | 114  | 122  | e 80 |
| 21    | 96   | 85   | 90   | 134  | 70   | 110  | 102  | 41   | 145  | 112  | 125  | e 90 |
| 22    | 89   | 85   | 87   | 132  | 70   | 133  | 100  | 40   | 124  | 115  | 120  | e100 |
| 23    | 108  | 84   | 83   | 131  | 70   | 130  | 96   | 41   | 130  | 139  | 118  | e100 |
| 24    | 107  | 84   | 80   | 125  | 69   | 127  | 88   | 41   | 132  | 187  | 116  | e100 |
| 25    | 95   | 82   | 85   | 104  | 67   | 123  | 83   | 39   | 132  | 169  | 113  | e 90 |
| 26    | 87   | 80   | 83   | 105  | 65   | 152  | 81   | 38   | 121  | 158  | 109  | e 90 |
| 27    | 85   | 79   | 79   | 103  | 64   | 422  | 78   | 36   | 117  | 147  | 110  | e 80 |
| 28    | 94   | 78   | 77   | 99   | 67   | 244  | 76   | 36   | 126  | 169  | 111  | e 80 |
| 29    | 96   | 78   | 79   | 96   | ---  | 250  | 75   | 32   | 135  | 165  | 114  | e 70 |
| 30    | 113  | 77   | 79   | 96   | ---  | 303  | 71   | 24   | 173  | 148  | 113  | e 70 |
| 31    | 97   | ---  | 69   | 96   | ---  | 171  | ---  | 23   | ---  | 136  | 110  | ---  |
| TOTAL | 3148 | 2593 | 2892 | 3310 | 2179 | 3753 | 3272 | 1143 | 2061 | 4131 | 3716 | 3184 |
| MEAN  | 102  | 86.4 | 93.3 | 107  | 77.8 | 121  | 109  | 36.9 | 68.7 | 133  | 120  | 106  |
| MAX   | 175  | 110  | 143  | 183  | 95   | 422  | 146  | 59   | 173  | 187  | 144  | 162  |
| MIN   | 73   | 54   | 69   | 49   | 64   | 41   | 71   | 23   | 23   | 110  | 109  | 70   |
| AC-FT | 6240 | 5140 | 5740 | 6570 | 4320 | 7440 | 6490 | 2270 | 4090 | 8190 | 7370 | 6320 |

CAL YR 1985 TOTAL 25098.2 MEAN 68.8 MAX 398 MIN 8.5 AC-FT 49780  
WTR YR 1986 TOTAL 35382.0 MEAN 96.9 MAX 422 MIN 23 AC-FT 70180

e Estimated

## SOUTHERN FLORIDA

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## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02277600 LOXAHATCHEE RIVER NEAR JUPITER, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY  | JUN   | JUL   | AUG   | SEP   |
|------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|
| 1    | 11.26 | 10.73 | 10.55 | 9.69  | 10.71 | 10.18 | 10.80 | 9.89 | 8.52  | 11.19 | 11.05 | 10.86 |
| 2    | 11.12 | 10.64 | 10.52 | 9.78  | 10.69 | 10.10 | 10.79 | 9.01 | 8.59  | 11.08 | 11.00 | 10.87 |
| 3    | 11.44 | 10.59 | 10.48 | 10.28 | 10.66 | 10.05 | 11.24 | 8.89 | 8.54  | 11.02 | 10.98 | 10.87 |
| 4    | 11.57 | 10.48 | 10.44 | 10.33 | 10.63 | 9.90  | 11.20 | 8.86 | 8.51  | 11.05 | 10.98 | 10.86 |
| 5    | 11.49 | 10.41 | 10.77 | 10.33 | 10.59 | 9.57  | 11.19 | 8.84 | 8.54  | 11.07 | 11.04 | 10.88 |
| 6    | 11.21 | 10.41 | 11.14 | 10.32 | 10.57 | 9.53  | 11.15 | 8.85 | 8.53  | 11.03 | 11.01 | 10.90 |
| 7    | 10.98 | 10.48 | 10.99 | 10.28 | 10.57 | 9.43  | 11.11 | 8.87 | 8.52  | 11.07 | 10.96 | 11.01 |
| 8    | 10.82 | 10.80 | 10.91 | 10.29 | 10.64 | 9.28  | 11.07 | 8.89 | 8.54  | 11.04 | 10.95 | 11.05 |
| 9    | 10.78 | 10.96 | 10.87 | 11.07 | 10.62 | 9.26  | 11.05 | 8.87 | 8.54  | 10.98 | 10.91 | 11.34 |
| 10   | 10.78 | 10.97 | 10.84 | 11.77 | 10.60 | 9.55  | 11.02 | 8.88 | 8.52  | 10.94 | 10.88 | ---   |
| 11   | 10.70 | 10.96 | 10.81 | 11.36 | 10.59 | 10.23 | 11.02 | 8.86 | 8.49  | 10.94 | 10.91 | ---   |
| 12   | 10.66 | 10.95 | 10.78 | 11.01 | 10.53 | 10.89 | 11.01 | 8.91 | 8.54  | 11.06 | 10.97 | ---   |
| 13   | 10.61 | 11.01 | 10.83 | 10.94 | 10.45 | 10.86 | 11.00 | 9.38 | 8.62  | 11.02 | 10.99 | ---   |
| 14   | 10.55 | 10.97 | 11.33 | 11.36 | 10.42 | 10.85 | 11.00 | 9.45 | 8.57  | 11.12 | 11.18 | ---   |
| 15   | 10.50 | 10.95 | 11.31 | 11.37 | 10.36 | 11.08 | 11.00 | 9.41 | 8.77  | 11.02 | 11.06 | ---   |
| 16   | 10.47 | 10.94 | 11.16 | 11.35 | 10.23 | 11.41 | 10.98 | 9.37 | 8.99  | 10.90 | 11.00 | ---   |
| 17   | 10.42 | 10.92 | 10.97 | 11.35 | 10.19 | 11.12 | 10.95 | 9.33 | 9.51  | 10.87 | 10.98 | ---   |
| 18   | 10.40 | 10.70 | 10.93 | 11.35 | 10.24 | 10.98 | 10.91 | 9.31 | 10.53 | 10.87 | 10.96 | ---   |
| 19   | 10.49 | 9.90  | 10.89 | 11.35 | 10.31 | 10.93 | 10.84 | 9.31 | 10.62 | 10.86 | 10.96 | ---   |
| 20   | 10.81 | 10.56 | 10.84 | 11.31 | 10.27 | 10.88 | 10.81 | 9.26 | 10.88 | 10.90 | 10.98 | ---   |
| 21   | 10.83 | 10.73 | 10.79 | 11.30 | 10.21 | 11.01 | 10.81 | 9.24 | 11.20 | 10.88 | 11.01 | ---   |
| 22   | 10.74 | 10.73 | 10.75 | 11.29 | 10.23 | 11.24 | 10.79 | 9.22 | 11.01 | 10.91 | 10.96 | ---   |
| 23   | 10.95 | 10.72 | 10.70 | 11.28 | 10.21 | 11.22 | 10.74 | 9.26 | 11.07 | 11.14 | 10.94 | ---   |
| 24   | 10.94 | 10.72 | 10.66 | 11.22 | 10.18 | 11.19 | 10.66 | 9.25 | 11.09 | 11.52 | 10.92 | ---   |
| 25   | 10.82 | 10.70 | 10.73 | 10.89 | 10.14 | 11.15 | 10.59 | 9.19 | 11.09 | 11.38 | 10.89 | ---   |
| 26   | 10.72 | 10.66 | 10.69 | 10.82 | 10.07 | 11.37 | 10.56 | 9.12 | 10.98 | 11.30 | 10.85 | ---   |
| 27   | 10.70 | 10.63 | 10.63 | 10.79 | 10.04 | 12.87 | 10.49 | 9.07 | 10.94 | 11.21 | 10.86 | ---   |
| 28   | 10.81 | 10.61 | 10.57 | 10.75 | 10.13 | 12.01 | 10.42 | 9.04 | 11.03 | 11.39 | 10.87 | ---   |
| 29   | 10.84 | 10.60 | 10.62 | 10.72 | ---   | 12.04 | 10.38 | 8.89 | 11.11 | 11.36 | 10.90 | ---   |
| 30   | 11.02 | 10.58 | 10.64 | 10.72 | ---   | 12.30 | 10.28 | 8.54 | 11.41 | 11.22 | 10.89 | ---   |
| 31   | 10.85 | ---   | 10.34 | 10.72 | ---   | 11.46 | ---   | 8.50 | ---   | 11.12 | 10.86 | ---   |
| MEAN | 10.85 | 10.70 | 10.79 | 10.88 | 10.40 | 10.77 | 10.86 | 9.09 | 9.66  | 11.08 | 10.96 | ---   |
| MAX  | 11.57 | 11.01 | 11.33 | 11.77 | 10.71 | 12.87 | 11.24 | 9.89 | 11.41 | 11.52 | 11.18 | ---   |
| MIN  | 10.40 | 9.90  | 10.34 | 9.69  | 10.04 | 9.26  | 10.28 | 8.50 | 8.49  | 10.86 | 10.85 | ---   |

CAL YR 1985 MEAN 10.08 MAX 12.89 MIN 7.95

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02277600 LOXAHATCHEE RIVER NEAR JUPITER, FL--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1972 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE      | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | TEMPER-<br>ATURE<br>AIR<br>(DEG C)<br>(00020) | BARO-<br>METRIC<br>PRES-<br>SURE<br>(MM<br>OF<br>HG)<br>(00025) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS)<br>(00061) | TUR-<br>BID-<br>ITY<br>(NTU)<br>(00076) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|-----------|------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------|
| OCT 09... | 1345 | 27.0                                            | 25.5                                          | 759                                                             | 1028                                                               | 1028                                                              | 92                                                         | --                                      | --                                                      | 437                                                          | --                                             |
| NOV 21... | 1500 | D25.0                                           | 31.0                                          | <760                                                            | 1028                                                               | 80020                                                             | 84                                                         | 3.3                                     | 50                                                      | 456                                                          | <3.0                                           |
| DEC 20... | 1400 | 20.0                                            | 24.0                                          | 764                                                             | 1028                                                               | 1028                                                              | 95                                                         | --                                      | --                                                      | 500                                                          | 6.5                                            |
| FEB 19... | 1150 | 22.5                                            | --                                            | 757                                                             | 1028                                                               | --                                                                | 73                                                         | --                                      | --                                                      | 520                                                          | --                                             |
| 19...     | 1624 | 22.5                                            | 27.0                                          | 757                                                             | 1028                                                               | --                                                                | --                                                         | 1.4                                     | 45                                                      | 520                                                          | --                                             |
| MAR 20... | --   | 25.5                                            | 28.0                                          | 757                                                             | 1028                                                               | --                                                                | --                                                         | --                                      | --                                                      | 482                                                          | 8.0                                            |
| APR 15... | 0835 | 24.5                                            | 26.5                                          | 759                                                             | --                                                                 | --                                                                | 119                                                        | --                                      | --                                                      | 364                                                          | 7.3                                            |
| MAY 28... | --   | 26.0                                            | 28.0                                          | 759                                                             | 1028                                                               | --                                                                | --                                                         | --                                      | --                                                      | --                                                           | --                                             |

| DATE      | PH<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS)<br>(00403) | ALKA-<br>LITY<br>WH WAT<br>TOTAL<br>FIELD<br>MG/L AS<br>CACO3<br>(00410) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00666) |
|-----------|-------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|
| OCT 09... | 7.19                                      | --                                               | 148                                                                      | 0.010                                                                    | --                                                              | --                                                              | 0.04                                                                          | --                                                              | 0.090                                                                    | 1.10                                                   | 0.060                                                           |
| NOV 21... | <7.40                                     | 7.90                                             | <157                                                                     | --                                                                       | 0.150                                                           | 0.020                                                           | 0.95                                                                          | 0.200                                                           | --                                                                       | 0.070                                                  | --                                                              |
| DEC 20... | 7.50                                      | --                                               | --                                                                       | --                                                                       | 0.040                                                           | 0.010                                                           | 0.68                                                                          | 0.120                                                           | --                                                                       | 0.040                                                  | --                                                              |
| FEB 19... | 7.30                                      | --                                               | --                                                                       | --                                                                       | 0.040                                                           | 0.010                                                           | 0.77                                                                          | 0.080                                                           | --                                                                       | 0.050                                                  | --                                                              |
| 19...     | 7.32                                      | 7.80                                             | 174                                                                      | --                                                                       | 0.040                                                           | 0.010                                                           | 0.77                                                                          | 0.080                                                           | --                                                                       | 0.050                                                  | --                                                              |
| MAR 20... | 7.50                                      | --                                               | 161                                                                      | --                                                                       | 0.050                                                           | 0.010                                                           | 0.93                                                                          | 0.090                                                           | --                                                                       | 0.060                                                  | --                                                              |
| APR 15... | 7.58                                      | --                                               | 125                                                                      | --                                                                       | 0.020                                                           | <0.010                                                          | 0.70                                                                          | 0.010                                                           | --                                                                       | 0.040                                                  | --                                                              |
| MAY 28... | --                                        | --                                               | --                                                                       | --                                                                       | 0.050                                                           | <0.010                                                          | 0.74                                                                          | 0.040                                                           | --                                                                       | 0.040                                                  | --                                                              |

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

[illegible][illegible]



## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02277600 LOXAHATCHEE RIVER NEAR JUPITER, FL--Continued

## WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR)<br>(01080) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN)<br>(01092) | SELE-<br>NIUM,<br>TOTAL<br>(UG/L<br>AS SE)<br>(01147) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L)<br>(70301) | PHOS-<br>PHORUS,<br>ORTHO,<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) | SAM-<br>PLING<br>METHOD,<br>CODES<br>(82398) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM)<br>(90095) | ALKA-<br>LITY<br>LAB<br>(MG/L<br>AS<br>CACO3)<br>(90410) | HARD-<br>NESS<br>NONCAR-<br>BONATE<br>(MG/L<br>AS<br>CACO3)<br>(95902) |
|--------------|-----------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------|
| OCT<br>09... | --                                                              | --                                                               | --                                                    | --                                                                            | --                                                                             | 0.030                                                            | 4                                                     | --                                           | --                                                                  | --                                                       | --                                                                     |
| NOV<br>21... | 360                                                             | 20                                                               | <1                                                    | 278                                                                           | 260                                                                            | --                                                               | 5                                                     | 60.0                                         | 472                                                                 | 152                                                      | 13                                                                     |
| DEC<br>20... | --                                                              | --                                                               | --                                                    | --                                                                            | --                                                                             | --                                                               | 10                                                    | 40.0                                         | --                                                                  | --                                                       | --                                                                     |
| FEB<br>19... | 490                                                             | --                                                               | --                                                    | --                                                                            | 290                                                                            | 0.050                                                            | 4                                                     | 40.0                                         | --                                                                  | 174                                                      | 26                                                                     |
| 19...        | 490                                                             | 20                                                               | <1                                                    | 1                                                                             | 290                                                                            | --                                                               | --                                                    | 40.0                                         | 523                                                                 | 174                                                      | 26                                                                     |
| MAR<br>20... | --                                                              | --                                                               | --                                                    | --                                                                            | --                                                                             | --                                                               | 3                                                     | 30.0                                         | 448                                                                 | --                                                       | --                                                                     |
| APR<br>15... | --                                                              | --                                                               | --                                                    | --                                                                            | --                                                                             | --                                                               | 3                                                     | 40.0                                         | --                                                                  | --                                                       | --                                                                     |
| MAY<br>28... | --                                                              | --                                                               | --                                                    | --                                                                            | --                                                                             | --                                                               | 0                                                     | 30.0                                         | --                                                                  | --                                                       | --                                                                     |

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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02277600 LOXAHATCHEE RIVER NEAR JUPITER, FL--Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | TEMPER-<br>ATURE<br>AIR<br>(DEG C)<br>(00020) | BARO-<br>METRIC<br>PRES-<br>SURE<br>(MM<br>OF<br>HG)<br>(00025) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | STREAM-<br>FLOW,<br>INSTAN-<br>TANEOUS<br>(CFS)<br>(00061) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) |
|--------------|------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------|
| JUL<br>08... | 1400 | 28.5                                            | 32.0                                          | 760                                                             | 1028                                                               | --                                                                | --                                                         | 388                                                          | 5.8                                            |
| SEP<br>09... | 1400 | 28.5                                            | 33.0                                          | 763                                                             | 1028                                                               | 1028                                                              | 159                                                        | 404                                                          | 5.0                                            |

| DATE         | PH<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154) | SAM-<br>PLING<br>METHOD,<br>CODES<br>(82398) |
|--------------|-------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|----------------------------------------------|
| JUL<br>08... | 6.75                                      | 0.070                                                           | 0.010                                                           | 1.1                                                                           | 0.120                                                           | 0.040                                                  | 4                                                     | 40.0                                         |
| SEP<br>09... | 6.83                                      | 0.050                                                           | 0.010                                                           | 0.74                                                                          | 0.090                                                           | 0.060                                                  | 6                                                     | 40.0                                         |

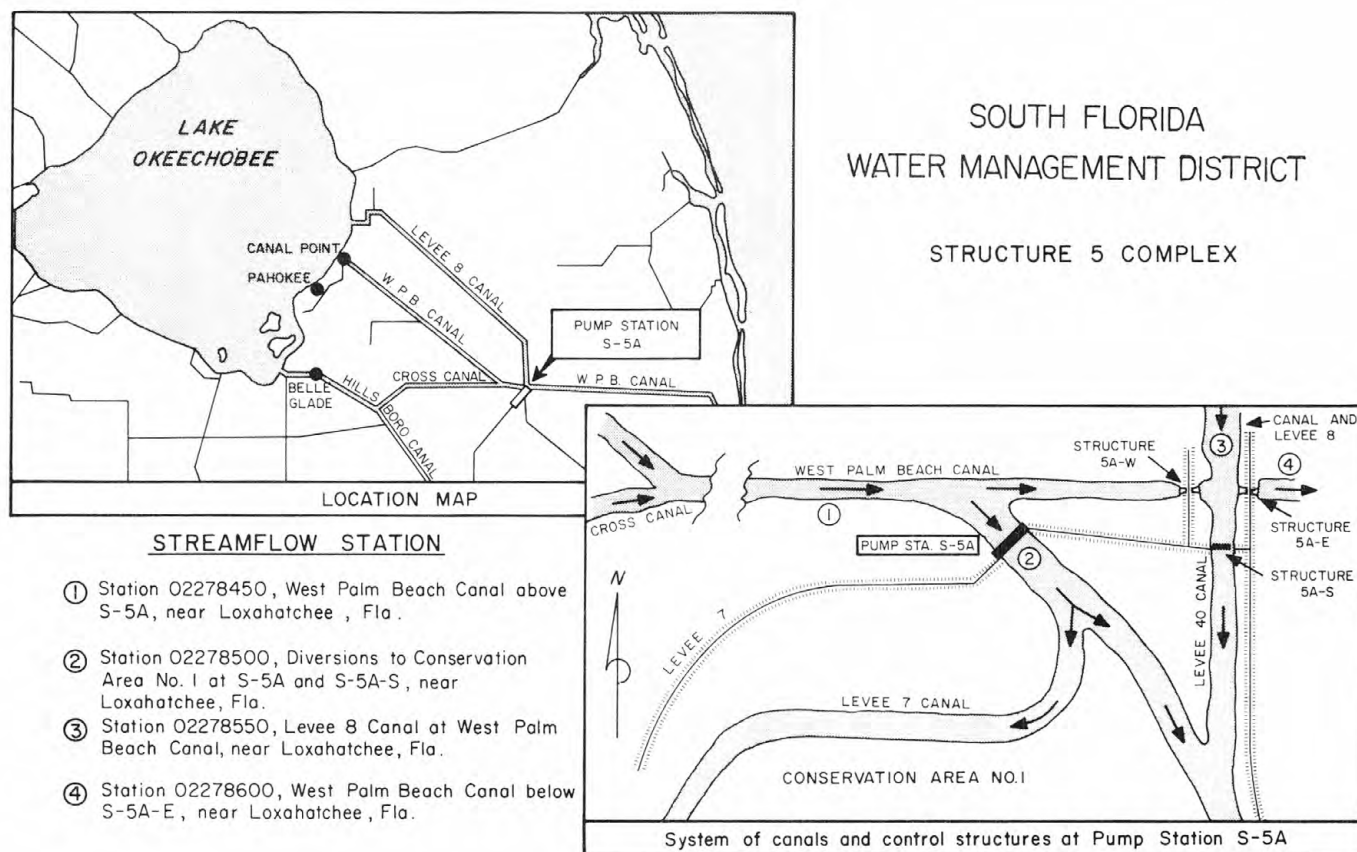


Figure 9. South Florida Water Management District, Structure 5 Complex.

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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## 02278000 WEST PALM BEACH CANAL AT HGS-5, AT CANAL POINT, FL

LOCATION.--Lat 26°51'05", long 80°37'55", in NE¼ sec.33, T.41 S., R.37 E., Palm Beach County, Hydrologic Unit 03090202, on right bank in hurricane gate structure 5 at Lake Okeechobee, 200 ft upstream from bridge on U.S. Highway 441 at Canal Point.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1939 to current year.

GAGE.--Water-stage recorder and gate-opening indicator. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Prior to Jan. 14, 1954, nonrecording gage at site 550 ft downstream at same datum. Jan. 14, 1954 to Feb. 24, 1956, water-stage recorder, and Feb. 25, 1956, to Sept. 30, 1967, water-stage and deflection vane recorders all at present site and datum. Since May 1940, auxiliary water-stage recorder at old lock, 700 ft downstream from gate structure.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated at station by operation of hurricane gates. Flow occasionally reversed after periods of considerable rainfall because of downstream natural drainage and pumpage from agricultural lands in the Everglades (negative figures indicate flow reversed). Discharge computed from relations between discharge, head, and gate openings at hurricane gate structure 5.

COOPERATION.--Gate record provided by South Florida Water Management District.

AVERAGE DISCHARGE.--46 years (1940-86), 155 ft<sup>3</sup>/s, 112,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,610 ft<sup>3</sup>/s Oct. 2, 1959; maximum gage height, 18.99 ft Mar. 10, 1983; maximum daily reverse flow, 1,760 ft<sup>3</sup>/s June 15, 1942; minimum gage height observed, 8.48 ft June 15-17, 1952, at former site.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 758 ft<sup>3</sup>/s May 2; maximum gage height, 15.83 ft Mar. 14; no flow for many days; minimum gage height, 12.46 ft June 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT    | NOV     | DEC     | JAN    | FEB    | MAR  | APR     | MAY      | JUN     | JUL  | AUG  | SEP  |
|-------|--------|---------|---------|--------|--------|------|---------|----------|---------|------|------|------|
| 1     | .00    | .00     | 157     | .00    | .00    | .00  | .00     | 694      | 384     | .00  | .00  | .00  |
| 2     | .00    | .00     | 158     | .00    | .00    | .00  | .00     | 758      | 48      | .00  | .00  | .00  |
| 3     | .00    | .00     | 160     | .00    | .00    | .00  | .00     | 709      | .00     | .00  | .00  | .00  |
| 4     | .00    | .00     | 59      | .00    | .00    | .00  | .00     | 596      | 254     | .00  | .00  | .00  |
| 5     | .00    | .00     | .00     | .00    | .00    | .00  | .00     | 395      | 413     | .00  | .00  | .00  |
| 6     | .00    | .00     | .00     | .00    | .00    | .00  | .00     | 246      | 407     | .00  | .00  | .00  |
| 7     | .00    | .00     | .00     | .00    | 552    | .00  | .00     | 359      | 409     | .00  | .00  | .00  |
| 8     | .00    | .00     | .00     | .00    | .00    | .00  | .00     | 316      | 384     | .00  | .00  | .00  |
| 9     | .00    | .00     | .00     | .00    | .00    | .00  | .00     | 326      | 132     | .00  | .00  | .00  |
| 10    | .00    | .00     | .00     | .00    | .00    | .00  | 95      | 297      | .00     | .00  | .00  | .00  |
| 11    | .00    | .00     | .00     | .00    | .00    | .00  | 158     | 297      | .00     | .00  | .00  | .00  |
| 12    | .00    | 98      | .00     | .00    | .00    | .00  | 157     | 306      | .00     | .00  | .00  | .00  |
| 13    | .00    | 150     | 100     | .00    | .00    | .00  | 150     | 325      | .00     | .00  | .00  | .00  |
| 14    | .00    | 146     | 68      | .00    | .00    | .00  | 146     | 300      | .00     | .00  | .00  | .00  |
| 15    | .00    | 145     | .00     | .00    | .00    | .00  | 157     | 309      | .00     | .00  | .00  | .00  |
| 16    | .00    | 152     | 84      | .00    | .00    | .00  | 163     | 435      | .00     | .00  | .00  | .00  |
| 17    | .00    | 149     | 67      | .00    | .00    | .00  | 249     | 520      | .00     | .00  | .00  | .00  |
| 18    | 104    | 57      | .00     | .00    | .00    | .00  | 297     | 501      | .00     | .00  | .00  | .00  |
| 19    | 166    | .00     | 86      | .00    | .00    | .00  | 289     | 453      | .00     | .00  | .00  | .00  |
| 20    | 45     | .00     | 63      | .00    | .00    | .00  | 280     | 169      | .00     | .00  | .00  | .00  |
| 21    | .00    | .00     | .00     | .00    | .00    | .00  | 281     | .00      | .00     | .00  | .00  | .00  |
| 22    | 103    | 94      | .00     | .00    | .00    | .00  | 295     | .00      | .00     | .00  | .00  | .00  |
| 23    | 166    | 154     | .00     | .00    | .00    | .00  | 341     | 152      | .00     | .00  | .00  | .00  |
| 24    | 158    | 148     | .00     | 54     | .00    | .00  | 394     | 221      | .00     | .00  | .00  | .00  |
| 25    | 63     | 149     | .00     | 151    | .00    | .00  | 393     | 214      | .00     | .00  | .00  | .00  |
| 26    | .00    | 148     | 90      | 164    | .00    | .00  | 379     | 216      | .00     | .00  | .00  | .00  |
| 27    | .00    | 149     | 60      | 180    | .00    | .00  | 365     | 328      | .00     | .00  | .00  | .00  |
| 28    | .00    | 152     | .00     | 171    | .00    | .00  | 366     | 381      | .00     | .00  | .00  | .00  |
| 29    | .00    | 157     | .00     | 62     | ---    | .00  | 483     | 463      | .00     | .00  | .00  | .00  |
| 30    | .00    | 155     | .00     | .00    | ---    | .00  | 513     | 571      | .00     | .00  | .00  | .00  |
| 31    | .00    | ---     | .00     | .00    | ---    | .00  | ---     | 588      | ---     | .00  | .00  | ---  |
| TOTAL | 805.00 | 2203.00 | 1152.00 | 782.00 | 552.00 | .00  | 5951.00 | 11445.00 | 2431.00 | .00  | .00  | .00  |
| MEAN  | 26.0   | 73.4    | 37.2    | 25.2   | 19.7   | .000 | 198     | 369      | 81.0    | .000 | .000 | .000 |
| MAX   | 166    | 157     | 160     | 180    | 552    | .00  | 513     | 758      | 413     | .00  | .00  | .00  |
| MIN   | .00    | .00     | .00     | .00    | .00    | .00  | .00     | .00      | .00     | .00  | .00  | .00  |
| AC-FT | 1600   | 4370    | 2280    | 1550   | 1090   | .00  | 11800   | 22700    | 4820    | .00  | .00  | .00  |

CAL YR 1985 TOTAL 32325.00 MEAN 88.6 MAX 1080 MIN .00 AC-FT 64120  
WTR YR 1986 TOTAL 25321.00 MEAN 69.4 MAX 758 MIN .00 AC-FT 50220

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02278000 WEST PALM BEACH CANAL AT HGS-5, AT CANAL POINT, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1    | 14.31 | 14.37 | 13.99 | 13.81 | 14.04 | 14.53 | 14.26 | 13.41 | 12.82 | 13.56 | 14.25 | 14.89 |
| 2    | 14.31 | 14.32 | 14.02 | 13.81 | 14.07 | 14.23 | 14.26 | 13.41 | 12.87 | 13.62 | 14.22 | 14.93 |
| 3    | 14.33 | 14.31 | 14.03 | 13.81 | 14.06 | 14.10 | 14.21 | 13.40 | 12.86 | 13.68 | 14.24 | 14.96 |
| 4    | 14.39 | 14.52 | 13.92 | 13.81 | 14.04 | 14.08 | 14.15 | 13.26 | 12.80 | 13.66 | 14.28 | 15.02 |
| 5    | 14.46 | 14.51 | 13.98 | 13.91 | 14.06 | 14.09 | 14.16 | 13.23 | 12.83 | 13.72 | 14.29 | 15.01 |
| 6    | 14.48 | 14.34 | 14.19 | 13.85 | 14.06 | 14.11 | 14.13 | 13.29 | 12.83 | 13.83 | 14.30 | 15.03 |
| 7    | 14.42 | 14.26 | 14.07 | 13.83 | 14.01 | 14.04 | 14.16 | 13.31 | 12.80 | 13.90 | 14.30 | 15.04 |
| 8    | 14.40 | 14.24 | 14.03 | 13.84 | 14.09 | 14.00 | 14.22 | 13.30 | 12.79 | 13.95 | 14.32 | 15.02 |
| 9    | 14.45 | 14.22 | 14.04 | 13.80 | 14.07 | 13.89 | 14.34 | 13.35 | 12.83 | 13.98 | 14.29 | 15.03 |
| 10   | 14.47 | 14.23 | 13.98 | 13.95 | 14.07 | 14.03 | 14.17 | 13.25 | 12.82 | 14.02 | 14.24 | 15.07 |
| 11   | 14.44 | 14.20 | 13.99 | 14.21 | 14.14 | 14.20 | 14.16 | 13.27 | 12.83 | 14.03 | 14.20 | 15.08 |
| 12   | 14.43 | 14.19 | 14.00 | 14.09 | 14.18 | 14.18 | 14.09 | 13.27 | 12.86 | 14.07 | 14.25 | 15.12 |
| 13   | 14.41 | 14.16 | 14.00 | 14.21 | 14.13 | 14.14 | 14.04 | 13.22 | 12.94 | 14.05 | 14.35 | 15.15 |
| 14   | 14.40 | 14.13 | 14.24 | 14.10 | 14.05 | 14.28 | 14.02 | 13.19 | 12.90 | 14.10 | 14.44 | 15.15 |
| 15   | 14.38 | 14.11 | 14.10 | 14.06 | 14.09 | 14.30 | 14.00 | 13.11 | 12.88 | 14.09 | 14.47 | 15.14 |
| 16   | 14.37 | 14.10 | 14.04 | 14.01 | 14.03 | 14.26 | 14.13 | 13.09 | 12.91 | 14.08 | 14.51 | 15.15 |
| 17   | 14.32 | 14.10 | 14.09 | 14.04 | 14.04 | 14.31 | 14.12 | 13.08 | 12.94 | 14.09 | 14.55 | 15.14 |
| 18   | 14.32 | 14.02 | 14.03 | 14.06 | 14.08 | 14.21 | 13.95 | 13.06 | 12.95 | 14.08 | 14.58 | 15.12 |
| 19   | 14.29 | 13.92 | 14.00 | 14.13 | 14.12 | 14.22 | 13.84 | 13.04 | 12.99 | 14.08 | 14.61 | 15.16 |
| 20   | 14.33 | 13.95 | 13.97 | 14.19 | 14.14 | 14.33 | 13.75 | 13.09 | 13.08 | 14.10 | 14.65 | 15.15 |
| 21   | 14.32 | 13.99 | 14.00 | 14.14 | 14.14 | 14.51 | 13.83 | 13.09 | 13.21 | 14.11 | 14.68 | 15.22 |
| 22   | 14.29 | 14.09 | 13.95 | 14.09 | 14.14 | 14.64 | 13.99 | 13.23 | 13.24 | 14.12 | 14.71 | 15.21 |
| 23   | 14.28 | 14.14 | 13.88 | 14.11 | 14.17 | 14.44 | 13.83 | 13.14 | 13.30 | 14.16 | 14.73 | 15.22 |
| 24   | 14.28 | 14.08 | 13.86 | 14.14 | 14.25 | 14.30 | 13.69 | 13.11 | 13.35 | 14.16 | 14.76 | 15.21 |
| 25   | 14.29 | 14.04 | 14.06 | 14.12 | 14.38 | 14.21 | 13.67 | 13.10 | 13.36 | 14.16 | 14.76 | 15.19 |
| 26   | 14.26 | 14.01 | 13.98 | 14.39 | 14.20 | 14.24 | 13.63 | 13.06 | 13.37 | 14.17 | 14.79 | 15.18 |
| 27   | 14.20 | 14.00 | 13.83 | 14.54 | 14.12 | 14.28 | 13.62 | 12.98 | 13.39 | 14.22 | 14.82 | 15.20 |
| 28   | 14.28 | 13.98 | 13.81 | 14.17 | 14.15 | 14.30 | 13.61 | 12.93 | 13.44 | 14.23 | 14.88 | 15.18 |
| 29   | 14.31 | 13.99 | 13.86 | 14.06 | ---   | 14.27 | 13.57 | 12.92 | 13.46 | 14.23 | 14.89 | 15.16 |
| 30   | 14.31 | 13.97 | 13.86 | 14.05 | ---   | 14.28 | 13.50 | 12.88 | 13.50 | 14.28 | 14.85 | 15.15 |
| 31   | 14.24 | ---   | 13.80 | 14.06 | ---   | 14.27 | ---   | 12.85 | ---   | 14.30 | 14.85 | ---   |
| MEAN | 14.35 | 14.15 | 13.99 | 14.04 | 14.11 | 14.23 | 13.97 | 13.16 | 13.04 | 14.03 | 14.52 | 15.11 |
| MAX  | 14.48 | 14.52 | 14.24 | 14.54 | 14.38 | 14.64 | 14.34 | 13.41 | 13.50 | 14.30 | 14.89 | 15.22 |
| MIN  | 14.20 | 13.92 | 13.80 | 13.80 | 14.01 | 13.89 | 13.50 | 12.85 | 12.79 | 13.56 | 14.20 | 14.89 |

CAL YR 1985 MEAN 13.48 MAX 15.35 MIN 11.76  
WTR YR 1986 MEAN 14.06 MAX 15.22 MIN 12.79



## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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02278002 WEST PALM BEACH CANAL BELOW HGS-5, AT CANAL POINT, FL

LOCATION.--Lat 26°51'45", long 80°37'50", in NE¼ sec.33, T.41 S., R.37 E., Palm Beach County, Hydrologic Unit 03090202, at northwest corner of old lock (in center), 500 ft downstream from bridge on U.S. Highway 441 at Canal Point.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May 1940 to current year (gage heights). Records of gage heights prior to October 1962 are available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to June 30, 1940 nonrecording gage at same site at datum 1.21 ft lower.

REMARKS.--Water level materially affected by operation of hurricane gate structure No. 5, 700 ft upstream and pumping at structure 5-A, 20 mi downstream, and to lesser degree by local pumping and drainage for agricultural purposes.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 18.70 ft Oct. 12, 1947; minimum 6.90 ft observed, Oct. 28, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 13.45 ft Feb. 7; minimum, 8.41 ft Jan. 12.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1    | 10.71 | 10.98 | 10.93 | 11.14 | 10.87 | 11.42 | 11.02 | 12.03 | 11.64 | 10.00 | 10.93 | 10.83 |
| 2    | 10.65 | 11.42 | 10.91 | 11.27 | 10.95 | 11.20 | 10.80 | 12.36 | 10.77 | 9.19  | 10.42 | 11.03 |
| 3    | 10.72 | 11.86 | 10.89 | 11.24 | 10.89 | 11.45 | 10.69 | 12.48 | 10.60 | 10.35 | 10.42 | 10.91 |
| 4    | 10.04 | 11.31 | 10.85 | 11.18 | 10.91 | 11.53 | 11.17 | 12.60 | 11.04 | 9.80  | 10.66 | 10.97 |
| 5    | 8.87  | 11.51 | 11.56 | 11.24 | 11.11 | 11.17 | 11.22 | 12.33 | 11.53 | 9.99  | 11.42 | 10.60 |
| 6    | 9.76  | 11.69 | 10.93 | 11.49 | 11.10 | 11.04 | 11.24 | 12.07 | 11.57 | 10.12 | 10.69 | 10.19 |
| 7    | 10.24 | 11.62 | 10.06 | 11.29 | 12.29 | 11.00 | 11.08 | 11.79 | 11.52 | 9.81  | 10.74 | 10.54 |
| 8    | 10.01 | 11.50 | 10.83 | 11.34 | 11.51 | 10.74 | 10.53 | 11.50 | 11.66 | 10.00 | 10.69 | 10.97 |
| 9    | 9.94  | 11.34 | 10.98 | 9.77  | 11.63 | 10.62 | 10.76 | 11.45 | 10.88 | 10.73 | 10.22 | 10.96 |
| 10   | 10.27 | 10.98 | 10.92 | 10.67 | 11.27 | 11.81 | 11.12 | 11.65 | 9.11  | 10.21 | 10.38 | 10.96 |
| 11   | 10.11 | 10.74 | 11.04 | 9.34  | 11.24 | 12.72 | 11.13 | 11.68 | 9.66  | 11.07 | 10.86 | 10.33 |
| 12   | 10.02 | 10.94 | 11.01 | 8.90  | 11.11 | 10.55 | 11.08 | 11.58 | 9.93  | 11.27 | 11.12 | 10.40 |
| 13   | 10.24 | 11.43 | 10.98 | 10.19 | 10.91 | 10.58 | 11.28 | 11.29 | 11.06 | 11.01 | 11.06 | 10.51 |
| 14   | 10.89 | 11.53 | 11.12 | 10.75 | 11.02 | 11.45 | 11.38 | 11.54 | 9.96  | 11.02 | 10.89 | 10.58 |
| 15   | 11.13 | 11.56 | 10.95 | 10.89 | 11.41 | 9.75  | 10.94 | 11.34 | 10.51 | 11.38 | 10.98 | 10.66 |
| 16   | 11.16 | 11.28 | 10.91 | 11.14 | 11.59 | 10.83 | 10.91 | 11.49 | 9.99  | 11.21 | 11.13 | 10.45 |
| 17   | 11.05 | 11.38 | 11.34 | 11.08 | 11.42 | 9.59  | 11.02 | 11.69 | 10.33 | 10.95 | 11.04 | 11.15 |
| 18   | 10.92 | 10.89 | 11.12 | 8.84  | 11.53 | 10.75 | 11.05 | 11.76 | 9.88  | 10.79 | 11.42 | 10.71 |
| 19   | 11.03 | 10.51 | 11.08 | 10.67 | 9.76  | 10.82 | 11.04 | 11.97 | 10.09 | 10.77 | 9.41  | 10.76 |
| 20   | 11.67 | 10.06 | 11.30 | 11.22 | 11.18 | 10.92 | 11.10 | 11.65 | 11.14 | 10.65 | 10.42 | 11.00 |
| 21   | 10.65 | 10.82 | 10.90 | 11.37 | 10.87 | 10.33 | 11.19 | 11.25 | 12.63 | 10.37 | 10.43 | 11.40 |
| 22   | 10.51 | 10.79 | 10.91 | 11.30 | 10.39 | 10.73 | 11.14 | 11.10 | 12.13 | 10.84 | 9.64  | 10.78 |
| 23   | 11.00 | 11.26 | 11.17 | 11.23 | 10.49 | 11.02 | 10.96 | 10.92 | 11.30 | 11.33 | 11.11 | 10.08 |
| 24   | 11.33 | 11.42 | 11.17 | 10.19 | 10.84 | 10.86 | 11.09 | 11.24 | 10.60 | 11.76 | 11.09 | 10.60 |
| 25   | 11.33 | 11.29 | 11.04 | 11.35 | 10.89 | 10.39 | 11.09 | 11.35 | 10.35 | 10.95 | 11.38 | 11.10 |
| 26   | 10.97 | 11.31 | 10.95 | 11.26 | 10.86 | 10.85 | 11.21 | 11.26 | 9.33  | 11.05 | 11.12 | 10.47 |
| 27   | 11.02 | 11.25 | 11.10 | 10.88 | 11.11 | 10.17 | 11.37 | 11.19 | 10.72 | 11.77 | 10.75 | 9.99  |
| 28   | 11.29 | 11.10 | 11.06 | 10.65 | 11.21 | 9.37  | 11.34 | 11.29 | 10.40 | 9.73  | 10.74 | 10.38 |
| 29   | 11.06 | 10.92 | 11.70 | 11.23 | ---   | 10.34 | 11.39 | 11.35 | 10.24 | 10.18 | 11.00 | 11.07 |
| 30   | 10.72 | 10.96 | 11.78 | 10.14 | ---   | 10.79 | 11.73 | 11.65 | 10.43 | 11.02 | 10.68 | 11.08 |
| 31   | 9.97  | ---   | 11.41 | 10.59 | ---   | 11.14 | ---   | 11.78 | ---   | 10.88 | 10.47 | ---   |
| MEAN | 10.62 | 11.19 | 11.06 | 10.77 | 11.08 | 10.84 | 11.10 | 11.63 | 10.70 | 10.65 | 10.75 | 10.72 |
| MAX  | 11.67 | 11.86 | 11.78 | 11.49 | 12.29 | 12.72 | 11.73 | 12.60 | 12.63 | 11.77 | 11.42 | 11.40 |
| MIN  | 8.87  | 10.06 | 10.06 | 8.84  | 9.76  | 9.37  | 10.53 | 10.92 | 9.11  | 9.19  | 9.41  | 9.99  |

CAL YR 1985 MEAN 11.07 MAX 14.00 MIN 8.66  
WTR YR 1986 MEAN 10.93 MAX 12.72 MIN 8.84

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

265501080364900 LEVEE 8 CANAL NEAR CANAL POINT, FL

LOCATION.--Lat 26°55'01", long 80°36'49", in SE¼ sec.10, T.41S., R.37 E., Palm Beach County, Hydrologic Unit 03090202, on west side of U.S. Highway 441 bridge, 3.6 mi northeast of Canal Point, and 4.8 mi south of Port Mayaca.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1976 to current year.

GAGE.--Water-stage recorder and electromagnetic velocity meter recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Flow regulated by gated structure at Lake Okeechobee. Flow reverses during and after periods of heavy rainfall because of pumpage into the canal from agricultural lands in the Everglades (negative figures indicate flow towards Lake Okeechobee). Discharge computed from continuous velocity record obtained from recording electromagnetic velocity meter.

AVERAGE DISCHARGE.--10 years, -4.13 ft<sup>3</sup>/s, -2,990 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 766 ft<sup>3</sup>/s Apr. 25, 1983; maximum gage height, 17.55 ft Oct. 5, 1983; maximum daily reverse flow, 1,130 ft<sup>3</sup>/s Sept. 21, 1985; no flow for many days each year; minimum gage height, 8.80 ft Nov. 1, 4, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 297 ft<sup>3</sup>/s Dec. 27; maximum gage height, 15.70 ft Aug. 20; maximum daily reverse flow, 1,100 ft<sup>3</sup>/s July 7; no flow for many days; minimum gage height, 12.09 ft Nov. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT      | NOV     | DEC     | JAN     | FEB    | MAR     | APR     | MAY  | JUN     | JUL    | AUG    | SEP      |
|-------|----------|---------|---------|---------|--------|---------|---------|------|---------|--------|--------|----------|
| 1     | -703     | -272    | .00     | 18      | 36     | -12     | -89     | 175  | 103     | -642   | -231   | -119     |
| 2     | -652     | -194    | 31      | -2.5    | 14     | -9.8    | -80     | 233  | 78      | -253   | -256   | -98      |
| 3     | -362     | -95     | 133     | -85     | -1.4   | -6.4    | -67     | 157  | 114     | -670   | -222   | -201     |
| 4     | -483     | -87     | 133     | 18      | 8.8    | -2.2    | -64     | 148  | 155     | -790   | -199   | -195     |
| 5     | -478     | -71     | 181     | 3.1     | 32     | -13     | .00     | 130  | 224     | -766   | -230   | -185     |
| 6     | -496     | -65     | -31     | -5.1    | 47     | -5.2    | .00     | 106  | 231     | -803   | -253   | -186     |
| 7     | -334     | -67     | -68     | -66     | 13     | -14     | .00     | 65   | 184     | -1100  | -184   | -224     |
| 8     | -404     | -86     | -11     | -143    | -9.0   | -44     | .00     | 96   | 132     | -984   | -154   | -260     |
| 9     | -365     | -222    | -34     | -166    | -12    | -21     | .00     | 74   | 159     | -710   | -132   | -283     |
| 10    | -386     | -181    | -107    | -457    | -3.6   | -60     | 7.1     | 72   | 158     | -509   | -108   | -243     |
| 11    | -392     | -100    | -31     | -144    | 5.3    | -126    | .00     | 112  | 132     | -433   | -133   | -81      |
| 12    | -326     | 94      | -15     | -200    | -13    | -93     | .00     | 20   | 103     | -334   | -112   | -22      |
| 13    | -323     | 228     | 20      | -94     | -14    | -86     | .00     | -28  | 3.5     | -297   | -163   | -7.0     |
| 14    | -165     | 153     | 25      | -111    | 10     | -70     | .00     | 195  | -146    | -279   | -341   | .00      |
| 15    | -108     | 107     | -29     | -115    | 14     | -86     | .00     | 272  | -59     | -223   | -323   | .00      |
| 16    | .00      | -39     | 175     | -318    | -4.8   | -63     | .00     | 260  | -132    | -164   | -285   | e.00     |
| 17    | 11       | 108     | 285     | -379    | .00    | -61     | .00     | 206  | -209    | -188   | -232   | e.00     |
| 18    | .00      | 41      | 73      | -303    | -24    | -60     | .00     | 199  | -371    | -157   | -284   | e.00     |
| 19    | .00      | .00     | -30     | -231    | -7.8   | -61     | .00     | 218  | -375    | -104   | -372   | e.00     |
| 20    | -9.0     | .00     | 49      | -195    | -.80   | -58     | .00     | 228  | -416    | 68     | -421   | e.00     |
| 21    | -210     | .00     | 18      | -176    | 2.8    | -49     | .00     | 261  | -519    | 41     | -414   | e.00     |
| 22    | -260     | .00     | 69      | -150    | 21     | -24     | .00     | 150  | -547    | e 37   | -336   | e.00     |
| 23    | -249     | .00     | 250     | -171    | 16     | -6.1    | .00     | 57   | -499    | e -23  | -276   | e.00     |
| 24    | -237     | .00     | 251     | 233     | -3.3   | -31     | .00     | 116  | -511    | e -55  | -240   | e.00     |
| 25    | -234     | .00     | 135     | 264     | -13    | -52     | .00     | 132  | -181    | e-105  | -208   | e.00     |
| 26    | -253     | .00     | 107     | 108     | -8.1   | -50     | .00     | 116  | -196    | e-190  | -176   | e.00     |
| 27    | -201     | .00     | 297     | 68      | -2.1   | -68     | .00     | 101  | -533    | e-275  | -157   | e.00     |
| 28    | -189     | .00     | 92      | 106     | 6.1    | -82     | .00     | 127  | -615    | e-360  | -159   | e.00     |
| 29    | -375     | .00     | -80     | 105     | ---    | -71     | .00     | 150  | -681    | e-693  | -184   | e.00     |
| 30    | -167     | .00     | -21     | 27      | ---    | -68     | .00     | 152  | -694    | e-649  | -178   | e.00     |
| 31    | -90      | ---     | 50      | -2.8    | ---    | -81     | ---     | 143  | ---     | e-577  | -106   | ---      |
| TOTAL | -8440.00 | -748.00 | 1917.00 | -2564.3 | 109.10 | -1533.7 | -292.90 | 4443 | -4907.5 | -12187 | -7069  | -2104.00 |
| MEAN  | -272     | -24.9   | 61.8    | -82.7   | 3.90   | -49.5   | -9.76   | 143  | -164    | -393   | -228   | -70.1    |
| MAX   | 11       | 228     | 297     | 264     | 47     | -2.2    | 7.1     | 272  | 231     | 68     | -106   | .00      |
| MIN   | -703     | -272    | -107    | -457    | -24    | -126    | -89     | -28  | -694    | -1100  | -421   | -283     |
| AC-FT | -16740   | -1480   | 3800    | -5090   | 216    | -3040   | -581    | 8810 | -9730   | -24170 | -14020 | -4170    |

CAL YR 1985 TOTAL -1467.40 MEAN -4.02 MAX 373 MIN -1130 AC-FT -2910  
WTR YR 1986 TOTAL -33377.30 MEAN -91.4 MAX 297 MIN -1100 AC-FT -66200

e Estimated

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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265501080364900 LEVEE 8 CANAL NEAR CANAL POINT, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT        | NOV   | DEC       | JAN       | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|------------|-------|-----------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 14.74      | 14.84 | 13.20     | 13.88     | 14.11 | 14.52 | 14.39 | 13.29 | 12.74 | 14.09 | 14.56 | 15.10 |
| 2           | 14.73      | 14.75 | 13.34     | 13.89     | 14.14 | 14.24 | 14.45 | 13.31 | 12.77 | 14.16 | 14.54 | 15.10 |
| 3           | 14.62      | 14.72 | 13.96     | 13.89     | 14.14 | 14.16 | 14.37 | 13.29 | 12.75 | 14.28 | 14.52 | 15.19 |
| 4           | 14.75      | 14.84 | 13.95     | 13.89     | 14.13 | 14.18 | 14.28 | 13.13 | 12.68 | 14.23 | 14.54 | 15.24 |
| 5           | 14.81      | 14.80 | 14.00     | 13.95     | 14.14 | 14.17 | 14.12 | 13.10 | 12.72 | 14.27 | 14.57 | 15.22 |
| 6           | 14.81      | 14.63 | 14.20     | 13.89     | 14.16 | 14.18 | 13.98 | 13.15 | 12.74 | 14.38 | 14.59 | 15.25 |
| 7           | 14.69      | 14.53 | 14.11     | 13.91     | 14.15 | 14.12 | 13.89 | 13.17 | 12.74 | 14.56 | 14.55 | 15.28 |
| 8           | 14.69      | 14.48 | 14.10     | 13.90     | 14.17 | 14.06 | 13.46 | 13.15 | 12.73 | 14.57 | 14.55 | 15.29 |
| 9           | 14.71      | 14.44 | 14.10     | 13.86     | 14.15 | 13.97 | 12.86 | 13.19 | 12.73 | 14.50 | 14.50 | 15.29 |
| 10          | 14.76      | 14.43 | 14.05     | 14.14     | 14.17 | 14.10 | 13.41 | 13.07 | 12.72 | 14.46 | 14.44 | 15.38 |
| 11          | 14.75      | 14.35 | 14.06     | 14.44     | 14.23 | 14.31 | 14.14 | 13.11 | 12.77 | 14.42 | 14.42 | 15.36 |
| 12          | 14.71      | 14.12 | 14.09     | 14.33     | 14.22 | 14.31 | 14.10 | 12.47 | 12.81 | 14.39 | 14.45 | 15.33 |
| 13          | 14.70      | 14.18 | 14.10     | 14.40     | 14.13 | 14.26 | 14.06 | 11.34 | 12.94 | 14.38 | 14.57 | 15.13 |
| 14          | 14.58      | 14.18 | 14.25     | 14.29     | 14.11 | 14.37 | 14.01 | 12.08 | 12.99 | 14.45 | 14.82 | 14.95 |
| 15          | 14.53      | 14.17 | 14.12     | 14.28     | 14.16 | 14.41 | 14.02 | 12.95 | 12.97 | 14.43 | 14.85 | 14.76 |
| 16          | 13.94      | 14.17 | 14.03     | 14.24     | 14.08 | 14.37 | 14.12 | 12.95 | 13.02 | 14.42 | 14.87 | 14.57 |
| 17          | 13.25      | 14.15 | 14.03     | 14.27     | 14.12 | 14.40 | 14.08 | 12.98 | 13.03 | 14.42 | 14.86 | 14.58 |
| 18          | 12.81      | 13.72 | 14.05     | 14.32     | 14.18 | 14.30 | 13.96 | 12.96 | 13.05 | 14.39 | 14.95 | 14.31 |
| 19          | 13.26      | 12.30 | 14.03     | 14.37     | 14.21 | 14.33 | 13.86 | 12.94 | 13.09 | 14.36 | 15.05 | 14.55 |
| 20          | 14.06      | 12.52 | 14.02     | 14.39     | 14.23 | 14.44 | 13.81 | 12.97 | 13.20 | 13.49 | 15.14 | 14.70 |
| 21          | 14.52      | 12.80 | 14.04     | 14.33     | 14.22 | 14.50 | 13.87 | 12.96 | 13.32 | 12.59 | 15.14 | 15.06 |
| 22          | 14.52      | 12.67 | 13.98     | 14.31     | 14.22 | 14.57 | 13.99 | 13.12 | 13.37 | 12.86 | 15.11 | 14.93 |
| 23          | 14.50      | 12.92 | 13.90     | 14.31     | 14.25 | 14.38 | 13.85 | 13.05 | 13.42 | 13.96 | 15.06 | 14.67 |
| 24          | 14.50      | 13.14 | 13.88     | 14.17     | 14.31 | 14.16 | 13.68 | 13.01 | 13.65 | 14.27 | 15.07 | 14.61 |
| 25          | 14.50      | 13.24 | 14.08     | 14.16     | 14.37 | 13.93 | 13.69 | 13.00 | 13.54 | 14.32 | 15.05 | 14.59 |
| 26          | 14.48      | 13.15 | 13.96     | 14.42     | 14.24 | 13.79 | 13.68 | 12.96 | 13.55 | 14.33 | 15.04 | 14.69 |
| 27          | 14.42      | 12.95 | 13.81     | 14.55     | 14.21 | 14.32 | 13.67 | 12.89 | 13.77 | 14.41 | 15.07 | 14.65 |
| 28          | 14.51      | 12.72 | 13.87     | 14.16     | 14.19 | 14.46 | 13.64 | 12.85 | 13.86 | 14.49 | 15.13 | 14.60 |
| 29          | 14.65      | 12.76 | 13.94     | 14.08     | ---   | 14.41 | 13.61 | 12.84 | 13.89 | 14.49 | 15.16 | 14.42 |
| 30          | 14.65      | 13.13 | 13.91     | 14.12     | ---   | 14.42 | 13.54 | 12.81 | 13.94 | 14.76 | 15.10 | 14.09 |
| 31          | 14.75      | ---   | 13.87     | 14.14     | ---   | 14.46 | ---   | 12.79 | ---   | 14.62 | 15.05 | ---   |
| MEAN        | 14.45      | 13.79 | 13.97     | 14.17     | 14.18 | 14.28 | 13.89 | 12.93 | 13.12 | 14.25 | 14.82 | 14.90 |
| MAX         | 14.81      | 14.84 | 14.25     | 14.55     | 14.37 | 14.57 | 14.45 | 13.31 | 13.94 | 14.76 | 15.16 | 15.38 |
| MIN         | 12.81      | 12.30 | 13.20     | 13.86     | 14.08 | 13.79 | 12.86 | 11.34 | 12.68 | 12.59 | 14.42 | 14.09 |
| CAL YR 1985 | MEAN 13.38 |       | MAX 15.30 | MIN 10.40 |       |       |       |       |       |       |       |       |
| WTR YR 1986 | MEAN 14.06 |       | MAX 15.38 | MIN 11.34 |       |       |       |       |       |       |       |       |

## 02278450 WEST PALM BEACH CANAL ABOVE S-5A, NEAR LOXAHATCHEE, FL

LOCATION.--Lat 26°41'05", long 80°22'15", in SW¼ sec.32, T.43 S., R.43 E., Palm Beach County, Hydrologic Unit 03090202, near south bank, 500 ft upstream from pump station S-5A, 0.3 mi upstream from Levee 8 Canal, 1.1 mi downstream from bridge on U.S. Highway 441 and Cross Canal, and 6 mi west of Loxahatchee.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Dual water-stage recorder, gate-opening indicator, and pump tachometer. Datum of gage is National Geodetic Vertical Datum of 1929 (South Florida Water Management District bench mark). Prior to Sept. 30, 1967, deflection vane recorder at same site and auxiliary water-stage recorder at control structure 5A-W, 0.3 mi downstream. Prior to October 1981, all gages at datum 0.24 ft higher.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated primarily by pumpage at S-5A and to a lesser extent by operation of control structure 5A-W. Major regulation above the station occurs in Cross Canal, 1.5 mi upstream, and at hurricane gate structure 5 at Lake Okeechobee, 20 mi upstream. Discharge is the difference between pumpage at S-5A and gate discharge at S-5A-W. Negative figures indicate flow to the west. See records on Diversions to Conservation Area No. 1 at S-5A, near Loxahatchee (station 02278500; pump station S-5A, upper), for table of daily gage height.

COOPERATION.--Gate-opening and pump records provided by South Florida Water Management District.

AVERAGE DISCHARGE.--29 years, 409 ft<sup>3</sup>/s, 296,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,230 ft<sup>3</sup>/s Mar. 27, 1970; maximum gage height, 14.26 ft present datum, Oct. 3, 1957; maximum daily reverse flow, 954 ft<sup>3</sup>/s June 7, 1984; minimum gage height, 6.86 ft Oct. 28, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 4,140 ft<sup>3</sup>/s June 21; maximum gage height, 12.58 ft Mar. 14; maximum daily reverse flow, 509 ft<sup>3</sup>/s Apr. 4; no flow for many days during the year; minimum gage height, 8.57 ft Oct. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT      | NOV     | DEC     | JAN      | FEB     | MAR      | APR      | MAY     | JUN      | JUL      | AUG      | SEP      |
|-------|----------|---------|---------|----------|---------|----------|----------|---------|----------|----------|----------|----------|
| 1     | 673      | 1020    | .00     | .00      | .00     | .00      | .00      | -27     | -74      | 2590     | .00      | .00      |
| 2     | -414     | .00     | .00     | .00      | .00     | -283     | .00      | -23     | .00      | 1910     | .00      | .00      |
| 3     | 1100     | .00     | .00     | .00      | .00     | -83      | -320     | -22     | .00      | 1990     | .00      | 700      |
| 4     | 937      | 1040    | -243    | .00      | .00     | .00      | -509     | -1.2    | -63      | 2060     | .00      | .00      |
| 5     | 502      | .00     | 1370    | .00      | .00     | .00      | -490     | 29      | -48      | 2210     | .00      | 1440     |
| 6     | .00      | .00     | 1780    | .00      | .00     | .00      | -477     | 203     | -12      | 2220     | .00      | 2090     |
| 7     | .00      | .00     | 245     | 1080     | 376     | .00      | -154     | 19      | .00      | 1920     | .00      | 2100     |
| 8     | .00      | .00     | .00     | 1900     | .00     | .00      | -299     | .00     | .00      | 399      | .00      | 2100     |
| 9     | .00      | .00     | 517     | 1600     | .00     | .00      | -404     | .00     | 1130     | 1250     | .00      | 1790     |
| 10    | .00      | .00     | .00     | 2360     | .00     | 1600     | -316     | .00     | 167      | .00      | .00      | 726      |
| 11    | .00      | -117    | .00     | 2010     | .00     | 3550     | -236     | .00     | .00      | 399      | .00      | .00      |
| 12    | .00      | -321    | .00     | 732      | .00     | 2530     | -225     | .00     | .00      | .00      | .00      | .00      |
| 13    | .00      | -243    | .00     | .00      | .00     | 381      | -211     | .00     | 859      | 421      | .00      | .00      |
| 14    | -201     | -211    | .00     | .00      | -263    | 1760     | -139     | .00     | 904      | .00      | 628      | .00      |
| 15    | -197     | -89     | .00     | .00      | -307    | 266      | -222     | .00     | 887      | .00      | 732      | .00      |
| 16    | -289     | -49     | -226    | .00      | -96     | 1380     | -207     | .00     | 235      | .00      | 652      | -327     |
| 17    | -240     | -153    | -90     | 1540     | .00     | 558      | -64      | .00     | 1570     | .00      | .00      | -227     |
| 18    | -76      | 827     | .00     | 620      | 1880    | 628      | .00      | .00     | 1300     | .00      | 2020     | -247     |
| 19    | .00      | 1280    | .00     | .00      | 351     | .00      | .00      | 77      | 1700     | .00      | 1840     | -376     |
| 20    | 812      | 460     | .00     | .00      | .00     | 421      | .00      | 30      | 2950     | .00      | 2140     | -247     |
| 21    | 774      | .00     | .00     | .00      | 773     | 662      | .00      | -73     | 4140     | -196     | 2140     | .00      |
| 22    | .00      | .00     | -281    | .00      | .00     | .00      | .00      | .00     | 3730     | -187     | 261      | 719      |
| 23    | .00      | .00     | -310    | 383      | .00     | .00      | -89      | .00     | 3090     | .00      | .00      | .00      |
| 24    | .00      | .00     | -97     | -96      | .00     | .00      | -116     | .00     | 2120     | .00      | .00      | .00      |
| 25    | .00      | .00     | .00     | -296     | .00     | -188     | -96      | .00     | 2150     | 778      | .00      | .00      |
| 26    | .00      | .00     | -193    | .00      | -78     | -145     | -84      | .00     | 1020     | 89       | .00      | 611      |
| 27    | .00      | .00     | -113    | -234     | -148    | 1510     | -79      | -49     | 964      | 2290     | .00      | .00      |
| 28    | 516      | .00     | .00     | -298     | -127    | 194      | -79      | -137    | 1390     | 1570     | .00      | .00      |
| 29    | 2980     | .00     | .00     | 271      | ---     | .00      | -68      | -135    | 740      | 518      | .00      | .00      |
| 30    | 3110     | .00     | .00     | 452      | ---     | .00      | -52      | -131    | 2660     | 803      | .00      | 854      |
| 31    | 524      | ---     | .00     | .00      | ---     | .00      | ---      | -124    | ---      | .00      | .00      | ---      |
| TOTAL | 10511.00 | 3444.00 | 2359.00 | 12024.00 | 2361.00 | 14741.00 | -4936.00 | -364.20 | 33509.00 | 23034.00 | 10413.00 | 11706.00 |
| MEAN  | 339      | 115     | 76.1    | 388      | 84.3    | 476      | -165     | -11.7   | 1117     | 743      | 336      | 390      |
| MAX   | 3110     | 1280    | 1780    | 2360     | 1880    | 3550     | .00      | 203     | 4140     | 2590     | 2140     | 2100     |
| MIN   | -414     | -321    | -310    | -298     | -307    | -283     | -509     | -137    | -74      | -196     | .00      | -376     |
| AC-FT | 20850    | 6830    | 4680    | 23850    | 4680    | 29240    | -9790    | -722    | 66470    | 45690    | 20650    | 23220    |

CAL YR 1985 TOTAL 107964.00 MEAN 296 MAX 4130 MIN -740 AC-FT 214100  
WTR YR 1986 TOTAL 118801.80 MEAN 325 MAX 4140 MIN -509 AC-FT 235600



## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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## 02278500 DIVERSIONS TO CONSERVATION AREA NO. 1 AT S-5A-S, NEAR LOXAHATCHEE, FL

LOCATION.--Lat 26°41'00", long 80°22'10", in S½ sec.32, T.43 S., R.40 E., Palm Beach County, Hydrologic Unit 03090202, at pump station S-5A, 1.5 mi downstream from Cross Canal, and 6 mi west of Loxahatchee.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1957 to current year. Records of gage heights prior to October 1961 are available in files of the Geological Survey.

GAGE.--Dual water-stage recorder, gate opening indicator, and pump tachometer. Datum of gage is National Geodetic Vertical Datum of 1929 (South Florida Water Management District bench mark). Prior to Sept. 30, 1967, auxiliary deflection vane recorders 500 ft upstream and in Levee 8 Canal, and auxiliary water-stage recorders upstream from S-5A-W and downstream from S-5A-E. Prior to October 1981, all gages at datum 0.24 ft higher.

REMARKS.--No estimated daily discharges. Records fair. Normal flow is considered as that to the south into Conservation Area No. 1. Flow is controlled by S-5A pumpage, syphoning and regulation of Cross Canal, 1.5 mi upstream, and hurricane gate structure 5, 20 mi upstream. Negative figures indicate releases from gate S-5A-S.

COOPERATION.--Gate-opening and pump records provided by South Florida Water Management District.

AVERAGE DISCHARGE.--29 years, 383 ft<sup>3</sup>/s; 277,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 7,040 ft<sup>3</sup>/s Mar. 28, 1970; maximum gage height, 14.26 ft present datum, Oct. 3, 1957; maximum daily reverse flow, 2,220 ft<sup>3</sup>/s Apr. 27, 1982; no flow for many days each year; minimum gage height, 6.86 ft Oct. 28, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 4,140 ft<sup>3</sup>/s June 21; maximum gage height, 12.58 ft Mar. 14 maximum daily reverse flow, 546 ft<sup>3</sup>/s July 12, no flow for many days during the year; minimum gage height, 8.57 ft Oct. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT      | NOV     | DEC     | JAN      | FEB     | MAR      | APR     | MAY      | JUN      | JUL      | AUG      | SEP      |
|-------|----------|---------|---------|----------|---------|----------|---------|----------|----------|----------|----------|----------|
| 1     | 1830     | 1020    | .00     | .00      | .00     | .00      | .00     | .00      | -99      | 2590     | 844      | .00      |
| 2     | 533      | .00     | .00     | .00      | .00     | .00      | 128     | .00      | .00      | 1910     | 748      | .00      |
| 3     | 1270     | .00     | .00     | .00      | .00     | .00      | 574     | .00      | .00      | 1800     | 747      | 700      |
| 4     | 937      | 1040    | .00     | .00      | .00     | .00      | 801     | .00      | .00      | 1840     | 825      | .00      |
| 5     | 502      | .00     | 1460    | .00      | .00     | .00      | 815     | .00      | .00      | 1940     | 688      | 1440     |
| 6     | .00      | .00     | 1780    | .00      | .00     | .00      | 792     | 662      | .00      | 1880     | 736      | 2090     |
| 7     | .00      | .00     | 245     | 1080     | 376     | .00      | 265     | 983      | .00      | 1920     | 752      | 2100     |
| 8     | .00      | .00     | .00     | 1900     | .00     | .00      | -238    | 954      | .00      | 269      | 668      | 2270     |
| 9     | .00      | .00     | 517     | 1600     | .00     | .00      | -338    | 941      | 1130     | 961      | 781      | 2630     |
| 10    | .00      | .00     | .00     | 2800     | .00     | 1600     | -198    | 955      | 167      | -399     | 238      | 1670     |
| 11    | .00      | .00     | .00     | 3270     | .00     | 3550     | .00     | 951      | .00      | -33      | .00      | 679      |
| 12    | .00      | .00     | .00     | 2010     | .00     | 2530     | .00     | 900      | .00      | -546     | .00      | 225      |
| 13    | .00      | .00     | .00     | 1210     | .00     | 381      | .00     | 870      | 859      | -103     | .00      | .00      |
| 14    | .00      | .00     | .00     | 1220     | -201    | 1760     | .00     | 879      | 904      | -330     | 628      | .00      |
| 15    | .00      | .00     | .00     | 1240     | -300    | 266      | .00     | 918      | 887      | 174      | 732      | .00      |
| 16    | .00      | .00     | .00     | 1240     | -94     | 1380     | .00     | 646      | 235      | 715      | 652      | -341     |
| 17    | .00      | .00     | .00     | 2750     | .00     | 558      | .00     | 98       | 1570     | 653      | .00      | -274     |
| 18    | .00      | 1350    | .00     | 1820     | 1880    | 628      | .00     | 107      | 1300     | 666      | 2620     | -345     |
| 19    | .00      | 1470    | .00     | 1190     | 351     | .00      | .00     | 435      | 1700     | 455      | 2950     | -446     |
| 20    | 812      | 460     | .00     | 1210     | .00     | 421      | .00     | 976      | 2950     | .00      | 2890     | -292     |
| 21    | 774      | .00     | .00     | 1230     | 773     | 588      | .00     | 316      | 4140     | -141     | 3040     | .00      |
| 22    | .00      | .00     | .00     | 1240     | .00     | -154     | .00     | .00      | 3730     | -175     | 1080     | 719      |
| 23    | .00      | .00     | .00     | 1470     | .00     | -177     | .00     | .00      | 3090     | .00      | 629      | .00      |
| 24    | .00      | .00     | .00     | 467      | .00     | -286     | .00     | .00      | 2890     | 505      | 629      | .00      |
| 25    | .00      | .00     | .00     | .00      | .00     | -535     | .00     | .00      | 3220     | 1600     | 705      | .00      |
| 26    | .00      | .00     | .00     | .00      | .00     | -433     | .00     | .00      | 1400     | 824      | 720      | 611      |
| 27    | .00      | .00     | .00     | .00      | .00     | 1440     | .00     | -163     | 964      | 3340     | 667      | .00      |
| 28    | 516      | .00     | .00     | .00      | .00     | 153      | .00     | -238     | 1390     | 2700     | 345      | .00      |
| 29    | 2980     | .00     | .00     | 407      | ---     | 21       | .00     | -238     | 740      | 1510     | .00      | .00      |
| 30    | 3110     | .00     | .00     | 452      | ---     | 49       | .00     | -228     | 2660     | 1790     | .00      | 854      |
| 31    | 524      | ---     | .00     | .00      | ---     | .00      | ---     | -197     | ---      | 862      | .00      | ---      |
| TOTAL | 13788.00 | 5340.00 | 4002.00 | 29806.00 | 2785.00 | 13740.00 | 2601.00 | 10527.00 | 35827.00 | 29177.00 | 25314.00 | 14288.00 |
| MEAN  | 445      | 178     | 129     | 961      | 99.5    | 443      | 86.7    | 340      | 1194     | 941      | 817      | 476      |
| MAX   | 3110     | 1470    | 1780    | 3270     | 1880    | 3550     | 815     | 983      | 4140     | 3340     | 3040     | 2630     |
| MIN   | .00      | .00     | .00     | .00      | -300    | -535     | -338    | -238     | -99      | -546     | .00      | -448     |
| AC-FT | 27350    | 10590   | 7940    | 59120    | 5520    | 27250    | 5160    | 20880    | 71060    | 57870    | 50210    | 28340    |

CAL YR 1985 TOTAL 162931.40 MEAN 446 MAX 5540 MIN -818 AC-FT 323200  
WTR YR 1986 TOTAL 187195.00 MEAN 513 MAX 4140 MIN -546 AC-FT 371300



## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02278500 DIVERSIONS TO CONSERVATION AREA NO. 1 AT S-5A-S, NEAR LOXAHATCHEE, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 10.74 | 10.91 | 11.08 | 11.42 | 11.13 | 11.85 | 11.31 | 11.11 | 11.31 | 9.23  | 11.02 | 11.05 |
| 2           | 10.47 | 11.67 | 11.07 | 11.56 | 11.21 | 11.57 | 11.11 | 11.22 | 10.92 | 9.17  | 10.65 | 11.30 |
| 3           | 10.30 | 12.10 | 11.06 | 11.57 | 11.15 | 11.73 | 10.97 | 11.45 | 10.85 | 9.23  | 10.66 | 10.64 |
| 4           | 9.29  | 11.22 | 11.06 | 11.43 | 11.14 | 11.79 | 11.43 | 11.70 | 10.89 | 9.14  | 10.89 | 11.09 |
| 5           | 9.01  | 11.85 | 10.86 | 11.58 | 11.36 | 11.50 | 11.52 | 11.91 | 11.32 | 9.15  | 11.06 | 10.42 |
| 6           | 10.06 | 12.01 | 9.76  | 11.74 | 11.36 | 11.36 | 11.52 | 12.25 | 11.37 | 9.08  | 10.88 | 10.38 |
| 7           | 10.53 | 11.93 | 10.27 | 10.86 | 11.40 | 11.31 | 11.38 | 12.02 | 11.30 | 9.04  | 10.99 | 10.80 |
| 8           | 10.26 | 11.80 | 11.10 | 10.22 | 11.79 | 11.01 | 10.89 | 11.53 | 11.51 | 10.21 | 10.54 | 11.02 |
| 9           | 10.24 | 11.61 | 11.06 | 9.11  | 11.90 | 10.77 | 11.18 | 11.45 | 10.72 | 10.62 | 10.45 | 11.21 |
| 10          | 10.55 | 11.28 | 11.17 | 9.19  | 11.54 | 10.68 | 11.43 | 11.72 | 9.37  | 10.53 | 10.58 | 10.85 |
| 11          | 10.38 | 11.04 | 11.27 | 8.84  | 11.56 | 9.57  | 11.39 | 11.76 | 9.84  | 11.18 | 11.06 | 10.55 |
| 12          | 10.30 | 11.17 | 11.27 | 9.11  | 11.48 | 9.03  | 11.33 | 11.64 | 10.16 | 11.53 | 11.36 | 10.67 |
| 13          | 10.51 | 11.60 | 11.21 | 10.61 | 11.28 | 10.67 | 11.56 | 11.34 | 10.15 | 11.12 | 10.97 | 10.78 |
| 14          | 11.17 | 11.70 | 11.48 | 11.07 | 11.35 | 10.50 | 11.59 | 11.60 | 9.34  | 11.29 | 10.83 | 10.84 |
| 15          | 11.43 | 11.72 | 11.26 | 11.19 | 11.81 | 9.99  | 11.16 | 11.39 | 9.76  | 11.66 | 10.81 | 10.92 |
| 16          | 11.45 | 11.43 | 11.19 | 11.40 | 11.85 | 10.46 | 11.20 | 11.29 | 10.05 | 11.49 | 10.89 | 10.83 |
| 17          | 11.34 | 11.53 | 11.67 | 10.57 | 11.71 | 9.87  | 11.17 | 11.29 | 9.42  | 11.21 | 11.34 | 11.45 |
| 18          | 11.09 | 10.83 | 11.47 | 9.11  | 10.54 | 10.78 | 11.04 | 11.41 | 9.19  | 11.07 | 10.66 | 11.01 |
| 19          | 11.14 | 9.99  | 11.36 | 11.02 | 9.94  | 10.99 | 10.95 | 11.54 | 9.37  | 11.04 | 9.28  | 11.06 |
| 20          | 11.05 | 10.18 | 11.52 | 11.57 | 11.50 | 11.05 | 10.99 | 11.63 | 9.28  | 10.92 | 9.33  | 11.19 |
| 21          | 10.44 | 11.03 | 11.22 | 11.69 | 10.80 | 10.53 | 11.19 | 11.51 | 9.47  | 10.72 | 8.92  | 11.56 |
| 22          | 10.65 | 11.03 | 11.25 | 11.59 | 10.68 | 11.27 | 11.20 | 11.39 | 9.28  | 11.12 | 9.88  | 10.66 |
| 23          | 11.10 | 11.51 | 11.48 | 11.40 | 10.81 | 11.43 | 10.90 | 11.05 | 9.12  | 11.60 | 11.37 | 10.31 |
| 24          | 11.48 | 11.63 | 11.41 | 10.46 | 11.19 | 11.22 | 10.88 | 11.28 | 9.54  | 12.02 | 11.37 | 10.86 |
| 25          | 11.57 | 11.50 | 11.38 | 11.58 | 11.33 | 10.71 | 10.85 | 11.38 | 9.23  | 10.94 | 11.63 | 11.34 |
| 26          | 11.25 | 11.48 | 11.24 | 11.58 | 11.21 | 11.17 | 11.02 | 11.27 | 9.48  | 11.23 | 11.39 | 10.42 |
| 27          | 11.27 | 11.41 | 11.39 | 11.34 | 11.41 | 10.13 | 11.22 | 11.02 | 10.66 | 10.12 | 11.02 | 10.25 |
| 28          | 11.46 | 11.25 | 11.36 | 10.98 | 11.49 | 9.71  | 11.21 | 11.01 | 10.25 | 9.37  | 10.91 | 10.65 |
| 29          | 9.86  | 11.07 | 11.98 | 11.34 | ---   | 10.64 | 11.09 | 10.95 | 10.31 | 10.30 | 11.23 | 11.31 |
| 30          | 9.24  | 11.10 | 12.07 | 10.32 | ---   | 11.06 | 11.17 | 11.00 | 9.49  | 10.95 | 10.91 | 10.82 |
| 31          | 10.30 | ---   | 11.65 | 10.87 | ---   | 11.43 | ---   | 11.13 | ---   | 11.15 | 10.70 | ---   |
| MEAN        | 10.64 | 11.35 | 11.25 | 10.85 | 11.28 | 10.83 | 11.20 | 11.43 | 10.10 | 10.56 | 10.76 | 10.87 |
| MAX         | 11.57 | 12.10 | 12.07 | 11.74 | 11.90 | 11.85 | 11.59 | 12.25 | 11.51 | 12.02 | 11.63 | 11.56 |
| MIN         | 9.01  | 9.99  | 9.76  | 8.84  | 9.94  | 9.03  | 10.85 | 10.95 | 9.12  | 9.04  | 8.92  | 10.25 |
| CAL YR 1985 | MEAN  | 11.07 | MAX   | 12.75 | MIN   | 8.77  |       |       |       |       |       |       |
| WTR YR 1986 | MEAN  | 10.92 | MAX   | 12.25 | MIN   | 8.84  |       |       |       |       |       |       |

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LOCATION.--Lat 26°41'00", long 80°22'10", in S½ sec.32, T.43 S., R40 E., Palm Beach County, Hydrologic Unit 03090202, at pump station S-5A, 1.5 mi downstream from Cross Canal, and 6 mi west of Loxahatchee.

PERIOD OF RECORD.--January 1955 to current year (gage heights). Records of gage height prior to October 1962 are available from the files of the Geological Survey.

REMARKS.--Gage records water level in Conservation Area No. 1 at structure 5 complex. Stage is affected by pumping at S-5A and S-6 and the operation of gated-control structures in levees 39 and 40.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 17.21 ft Oct. 30; minimum, 11.12 ft May 18.

| DAY | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1   | 16.33 | 16.82 | 16.62 | 16.52 | 16.45 | 15.17 | 14.53 | 11.66 | 13.13 | 16.65 | 15.21 | 15.65 |
| 2   | 16.29 | 16.68 | 16.60 | 16.56 | 16.43 | 15.09 | 14.56 | 11.52 | 13.16 | 16.64 | 15.14 | 15.63 |
| 3   | 16.42 | 16.64 | 16.54 | 16.55 | 16.40 | 15.12 | 14.51 | 11.36 | 13.20 | 16.60 | 15.03 | 15.74 |
| 4   | 16.45 | 16.70 | 16.54 | 16.55 | 16.34 | 15.20 | 14.38 | 11.22 | 13.20 | 16.63 | 14.94 | 15.71 |
| 5   | 16.46 | 16.64 | 16.74 | 16.52 | 16.29 | 15.13 | 14.23 | 11.24 | 13.20 | 16.61 | 15.11 | 15.78 |
| 6   | 16.40 | 16.62 | 16.92 | 16.48 | 16.24 | 15.09 | 14.10 | 11.72 | 13.18 | 16.62 | 15.06 | 15.72 |
| 7   | 16.36 | 16.59 | 16.79 | 16.61 | 16.22 | 15.05 | 14.06 | 12.06 | 13.15 | 16.62 | 14.90 | 15.76 |
| 8   | 16.37 | 16.58 | 16.73 | 16.73 | 16.17 | 15.00 | 13.88 | 12.16 | 13.13 | 16.38 | 14.88 | 15.89 |
| 9   | 16.34 | 16.58 | 16.77 | 16.88 | 16.14 | 15.00 | 13.30 | 12.08 | 13.86 | 16.09 | 14.71 | 15.88 |
| 10  | 16.36 | 16.56 | 16.73 | 17.06 | 16.14 | 15.40 | 12.92 | 12.07 | 14.09 | 15.97 | 14.69 | 15.86 |
| 11  | 16.35 | 16.55 | 16.72 | 17.10 | 16.11 | 16.24 | 12.83 | 12.10 | 13.86 | 15.68 | 14.80 | 15.85 |
| 12  | 16.32 | 16.56 | 16.71 | 16.96 | 16.01 | 16.38 | 12.88 | 12.03 | 13.81 | 15.57 | 14.90 | 15.80 |
| 13  | 16.30 | 16.55 | 16.70 | 16.89 | 15.92 | 16.20 | 12.88 | 11.64 | 14.30 | 15.45 | 15.19 | 15.80 |
| 14  | 16.27 | 16.54 | 16.66 | 16.84 | 15.84 | 16.15 | 12.98 | 11.28 | 14.91 | 15.53 | 15.29 | 15.78 |
| 15  | 16.25 | 16.52 | 16.61 | 16.81 | 15.70 | 15.98 | 13.10 | 11.19 | 14.95 | 15.50 | 15.40 | 15.76 |
| 16  | 16.24 | 16.51 | 16.62 | 16.78 | 15.61 | 15.87 | 13.06 | 11.20 | 15.09 | 15.35 | 15.58 | 15.70 |
| 17  | 16.22 | 16.49 | 16.61 | 16.94 | 15.57 | 15.86 | 13.05 | 11.17 | 15.44 | 15.28 | 15.60 | 15.65 |
| 18  | 16.21 | 16.58 | 16.61 | 16.97 | 15.84 | 15.64 | 13.07 | 11.14 | 15.57 | 15.12 | 15.77 | 15.63 |
| 19  | 16.22 | 16.80 | 16.58 | 16.92 | 15.92 | 15.32 | 13.02 | 11.23 | 15.88 | 15.08 | 16.01 | 15.58 |
| 20  | 16.33 | 16.90 | 16.58 | 16.86 | 15.79 | 15.12 | 13.00 | 11.47 | 16.37 | 15.16 | 16.28 | 15.57 |
| 21  | 16.37 | 16.84 | 16.58 | 16.81 | 15.85 | 15.29 | 12.95 | 12.20 | 16.58 | 15.19 | 16.34 | 15.60 |
| 22  | 16.32 | 16.79 | 16.56 | 16.79 | 15.79 | 15.10 | 12.78 | 13.68 | 16.72 | 15.23 | 16.13 | 15.81 |
| 23  | 16.31 | 16.73 | 16.56 | 16.77 | 15.75 | 14.99 | 12.65 | 13.96 | 16.78 | 15.35 | 15.89 | 15.86 |
| 24  | 16.31 | 16.70 | 16.59 | 16.78 | 15.70 | 14.94 | 12.55 | 13.91 | 16.85 | 15.34 | 15.76 | 15.88 |
| 25  | 16.30 | 16.68 | 16.57 | 16.75 | 15.58 | 14.82 | 12.42 | 13.96 | 17.04 | 15.39 | 15.59 | 15.91 |
| 26  | 16.30 | 16.67 | 16.51 | 16.74 | 15.52 | 14.79 | 12.31 | 14.00 | 16.87 | 15.43 | 15.48 | 15.98 |
| 27  | 16.30 | 16.67 | 16.50 | 16.67 | 15.49 | 15.53 | 12.18 | 13.95 | 16.62 | 15.63 | 15.48 | 15.97 |
| 28  | 16.40 | 16.66 | 16.51 | 16.55 | 15.35 | 15.23 | 12.04 | 13.87 | 16.44 | 15.78 | 15.53 | 15.92 |
| 29  | 16.84 | 16.65 | 16.53 | 16.51 | ---   | 14.73 | 11.92 | 13.77 | 16.36 | 15.78 | 15.67 | 15.91 |
| 30  | 17.00 | 16.64 | 16.50 | 16.52 | ---   | 14.57 | 11.75 | 13.63 | 16.56 | 15.56 | 15.68 | 15.96 |
| 31  | 16.91 | ---   | 16.52 | 16.48 | ---   | 14.47 | ---   | 13.35 | ---   | 15.27 | 15.67 |       |

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02278550 LEVEE 8 CANAL AT WEST PALM BEACH CANAL, NEAR LOXAHATCHEE, FL

LOCATION.--Lat 26°41'05", long 80°21'35", in SE¼ sec.32, T.43 S., R.40 E., Palm Beach County, Hydrologic Unit 03090202, at upstream side in center of span of bridge on U.S. Highway 441, 50 ft upstream from mouth and West Palm Beach Canal, 0.2 mi east of pump station S-5A, and 6 mi west of Loxahatchee.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1957 to current year. Records of gage heights prior to October 1961 are available in files of the Geological Survey.

REVISED RECORDS.--WRD FL-84-2A: 1982(m).

GAGE.--Water-stage recorder and gate-opening indicators. Datum of gage is National Geodetic Vertical Datum of 1929. (South Florida Water Management District bench mark). Prior to Sept. 30, 1967, deflection vane recorder at same site. Auxiliary water-stage recorders upstream from S-5A and downstream from S-5A-E. Prior to October 1981 all gages at datum 0.24 ft higher.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by operation of S-5A-E, S-5A-S, S-5A-W just downstream and pumpage at S-5A. Gate operation and pumpage occasionally reverses the flow (negative figures indicate flow reversed). Discharge is summation of flows at S-5A-E, S-5A-S and S-5A-W. Discharge computed from relation between discharge, head, and gate openings.

COOPERATION.--Gate-opening record provided by South Florida Water Management District.

AVERAGE DISCHARGE.--29 years, 149 ft<sup>3</sup>/s, 108,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,190 ft<sup>3</sup>/s Mar. 31, 1970; maximum gage height, 19.34 ft present datum, Sept. 27, 1960, from floodmark; maximum daily reverse flow, 2,540 ft<sup>3</sup>/s Apr. 27, 1982; minimum gage height, 8.29 ft present datum, Mar. 17, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,690 ft<sup>3</sup>/s July 27; maximum gage height, 17.27 ft Jan. 10; maximum daily reverse flow, 98 ft<sup>3</sup>/s Sept. 18; no flow for many days during the year; minimum gage height, 10.41 ft Nov. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT     | NOV     | DEC     | JAN      | FEB    | MAR     | APR     | MAY      | JUN     | JUL      | AUG      | SEP     |
|-------|---------|---------|---------|----------|--------|---------|---------|----------|---------|----------|----------|---------|
| 1     | 1160    | .00     | .00     | .00      | .00    | .00     | .00     | 147      | 15      | .00      | 1430     | .00     |
| 2     | 947     | .00     | .00     | .00      | .00    | 283     | 360     | 143      | .00     | .00      | 1340     | .00     |
| 3     | 171     | .00     | .00     | .00      | .00    | 83      | 1070    | 142      | .00     | -44      | 1350     | .00     |
| 4     | .00     | .00     | 243     | .00      | .00    | .00     | 1310    | 111      | 88      | -10      | 1420     | .00     |
| 5     | .00     | .00     | 92      | .00      | .00    | .00     | 1310    | 79       | 78      | -4.0     | 1300     | .00     |
| 6     | .00     | .00     | .00     | .00      | .00    | .00     | 1270    | 494      | 47      | 38       | 1340     | .00     |
| 7     | .00     | .00     | .00     | .00      | .00    | .00     | 419     | 964      | 40      | 199      | 1350     | .00     |
| 8     | .00     | .00     | .00     | .00      | .00    | .00     | 61      | 954      | 37      | 322      | 1270     | 297     |
| 9     | .00     | .00     | .00     | .00      | .00    | .00     | 100     | 1020     | 12      | 305      | 1380     | 1110    |
| 10    | .00     | .00     | .00     | 440      | .00    | .00     | 184     | 955      | .00     | 169      | 419      | 1310    |
| 11    | .00     | 117     | .00     | 1260     | .00    | .00     | 271     | 951      | .00     | 234      | .00      | 1190    |
| 12    | .00     | 321     | .00     | 1280     | .00    | .00     | 259     | 994      | .00     | 135      | .00      | 468     |
| 13    | .00     | 243     | .00     | 1210     | .00    | .00     | 246     | 996      | .00     | 151      | .00      | 91      |
| 14    | 201     | 211     | .00     | 1220     | 62     | .00     | 177     | 951      | .00     | 202      | .00      | 87      |
| 15    | 197     | 89      | .00     | 1240     | 7.0    | .00     | 263     | 979      | .00     | 817      | .00      | 79      |
| 16    | 289     | 49      | 226     | 1240     | 2.0    | .00     | 274     | 727      | .00     | 1380     | .00      | 19      |
| 17    | 240     | 153     | 90      | 1210     | .00    | .00     | 143     | 178      | .00     | 1340     | .00      | -47     |
| 18    | 76      | 486     | .00     | 1200     | .00    | .00     | 78      | 177      | .00     | 1360     | 1030     | -98     |
| 19    | .00     | 162     | .00     | 1190     | .00    | .00     | 78      | 382      | .00     | 1100     | 1630     | -72     |
| 20    | .00     | .00     | .00     | 1210     | .00    | .00     | 77      | 964      | .00     | 423      | 1290     | -45     |
| 21    | .00     | .00     | .00     | 1230     | .00    | 54      | 77      | 401      | .00     | 177      | 1410     | .00     |
| 22    | .00     | .00     | 281     | 1240     | .00    | 193     | 26      | .00      | .00     | 12       | 1430     | .00     |
| 23    | .00     | .00     | 310     | 1080     | .00    | 177     | 131     | .00      | .00     | .00      | 1270     | .00     |
| 24    | .00     | .00     | 97      | 585      | .00    | 144     | 196     | .00      | 531     | 886      | 1270     | .00     |
| 25    | .00     | .00     | .00     | 296      | .00    | 98      | 171     | .00      | 689     | 1480     | 1330     | .00     |
| 26    | .00     | .00     | 348     | .00      | 78     | 21      | 151     | .00      | 260     | 1340     | 1310     | .00     |
| 27    | .00     | .00     | 133     | 327      | 148    | -17     | 141     | -29      | .00     | 1690     | 1260     | .00     |
| 28    | .00     | .00     | .00     | 400      | 127    | 73      | 146     | -47      | .00     | 1630     | 709      | .00     |
| 29    | .00     | .00     | .00     | 168      | ---    | 214     | 185     | -27      | .00     | 1470     | .00      | .00     |
| 30    | .00     | .00     | .00     | .00      | ---    | 164     | 173     | -18      | .00     | 1520     | .00      | .00     |
| 31    | .00     | ---     | .00     | .00      | ---    | .00     | ---     | 2.0      | ---     | 1420     | .00      | ---     |
| TOTAL | 3281.00 | 1831.00 | 1820.00 | 18026.00 | 424.00 | 1487.00 | 9347.00 | 12590.00 | 1797.00 | 19742.00 | 26538.00 | 4389.00 |
| MEAN  | 106     | 61.0    | 58.7    | 581      | 15.1   | 48.0    | 312     | 406      | 59.9    | 637      | 856      | 146     |
| MAX   | 1160    | 486     | 348     | 1280     | 148    | 283     | 1310    | 1020     | 689     | 1690     | 1630     | 1310    |
| MIN   | .00     | .00     | .00     | .00      | .00    | -17     | .00     | -47      | .00     | -44      | .00      | -98     |
| AC-FT | 6510    | 3630    | 3610    | 35750    | 841    | 2950    | 18540   | 24970    | 3560    | 39160    | 52640    | 8710    |

CAL YR 1985 TOTAL 53630.90 MEAN 147 MAX 1700 MIN -780 AC-FT 106400  
WTR YR 1986 TOTAL 101272.00 MEAN 277 MAX 1690 MIN -98 AC-FT 200900

## 02278550 LEVEE 8 CANAL AT WEST PALM CANAL, NEAR LOXAHATCHEE, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT        | NOV   | DEC       | JAN       | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|------------|-------|-----------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 16.42      | 16.65 | 13.29     | 13.92     | 14.30 | 14.44 | 15.16 | 11.19 | 12.74 | 16.49 | 15.33 | 15.39 |
| 2           | 15.70      | 16.41 | 13.38     | 13.97     | 14.34 | 13.70 | 14.87 | 11.28 | 12.58 | 16.35 | 15.23 | 15.39 |
| 3           | 14.73      | 16.12 | 13.95     | 13.98     | 14.34 | 13.59 | 14.60 | 11.50 | 12.55 | 16.28 | 15.12 | 15.50 |
| 4           | 15.65      | 16.04 | 13.26     | 13.88     | 14.26 | 14.17 | 14.48 | 11.70 | 12.23 | 16.44 | 15.05 | 15.54 |
| 5           | 15.80      | 15.86 | 12.75     | 14.04     | 14.24 | 14.31 | 14.34 | 11.78 | 11.57 | 16.39 | 15.19 | 15.55 |
| 6           | 15.80      | 15.51 | 14.43     | 13.95     | 14.21 | 14.38 | 14.19 | 12.07 | 11.72 | 16.42 | 15.14 | 15.62 |
| 7           | 15.57      | 15.24 | 14.35     | 14.07     | 14.34 | 14.35 | 14.07 | 12.21 | 12.25 | 16.69 | 14.99 | 15.63 |
| 8           | 15.51      | 15.02 | 14.33     | 14.14     | 14.32 | 14.29 | 13.64 | 12.30 | 12.57 | 16.31 | 14.96 | 15.81 |
| 9           | 15.57      | 14.88 | 14.34     | 14.06     | 14.35 | 14.01 | 13.10 | 12.22 | 12.64 | 15.76 | 14.80 | 15.99 |
| 10          | 15.57      | 14.81 | 14.23     | 15.87     | 14.30 | 14.18 | 12.61 | 12.21 | 12.65 | 15.58 | 14.72 | 16.00 |
| 11          | 15.57      | 14.54 | 14.19     | 17.22     | 14.35 | 14.74 | 12.05 | 12.24 | 12.63 | 15.35 | 14.82 | 15.92 |
| 12          | 15.38      | 13.51 | 14.23     | 17.09     | 14.47 | 14.94 | 11.92 | 12.16 | 12.71 | 15.19 | 14.84 | 15.66 |
| 13          | 15.43      | 13.24 | 14.27     | 17.00     | 14.37 | 14.77 | 12.08 | 11.75 | 12.95 | 15.19 | 15.05 | 15.30 |
| 14          | 14.77      | 13.80 | 14.50     | 16.95     | 13.99 | 14.76 | 12.55 | 11.40 | 13.01 | 15.41 | 15.28 | 15.10 |
| 15          | 14.63      | 14.08 | 14.39     | 16.92     | 14.30 | 14.80 | 12.52 | 11.32 | 13.03 | 15.47 | 15.33 | 14.91 |
| 16          | 13.67      | 14.35 | 13.67     | 16.90     | 14.23 | 14.83 | 11.71 | 11.34 | 13.37 | 15.43 | 15.36 | 14.71 |
| 17          | 12.86      | 13.99 | 13.35     | 17.05     | 14.19 | 14.98 | 12.08 | 11.32 | 13.62 | 15.34 | 15.35 | 14.75 |
| 18          | 12.70      | 12.50 | 14.22     | 17.08     | 14.23 | 14.95 | 12.99 | 11.32 | 13.64 | 15.19 | 15.75 | 14.49 |
| 19          | 13.43      | 11.27 | 14.33     | 17.03     | 14.32 | 14.59 | 13.10 | 11.43 | 13.64 | 14.80 | 16.21 | 14.80 |
| 20          | 14.29      | 12.40 | 14.24     | 16.97     | 14.41 | 14.64 | 12.99 | 11.61 | 13.87 | 12.86 | 16.36 | 14.84 |
| 21          | 14.91      | 12.80 | 14.23     | 16.92     | 14.44 | 14.84 | 13.00 | 12.02 | 14.35 | 12.32 | 16.48 | 15.19 |
| 22          | 14.95      | 12.87 | 13.67     | 16.91     | 14.39 | 14.72 | 13.34 | 13.18 | 14.47 | 13.21 | 16.24 | 15.11 |
| 23          | 14.93      | 13.16 | 12.62     | 15.87     | 14.38 | 14.50 | 13.17 | 13.25 | 14.56 | 14.49 | 15.95 | 14.86 |
| 24          | 14.96      | 13.33 | 12.86     | 11.21     | 14.42 | 14.27 | 12.30 | 13.05 | 14.18 | 15.28 | 15.82 | 14.79 |
| 25          | 14.96      | 13.43 | 14.25     | 12.19     | 14.65 | 14.13 | 11.82 | 13.04 | 11.72 | 15.50 | 15.67 | 14.74 |
| 26          | 14.92      | 13.29 | 13.10     | 14.49     | 14.28 | 14.04 | 11.77 | 12.98 | 12.98 | 15.51 | 15.56 | 14.87 |
| 27          | 14.86      | 13.11 | 12.55     | 13.96     | 13.73 | 14.73 | 11.88 | 12.99 | 15.52 | 15.80 | 15.55 | 14.86 |
| 28          | 14.97      | 12.87 | 13.95     | 11.33     | 13.64 | 14.97 | 11.88 | 12.99 | 15.77 | 15.97 | 15.54 | 14.82 |
| 29          | 15.76      | 12.72 | 14.19     | 11.98     | ---   | 14.76 | 11.58 | 12.89 | 15.84 | 15.94 | 15.50 | 14.60 |
| 30          | 16.65      | 13.06 | 14.10     | 14.15     | ---   | 14.73 | 11.47 | 12.82 | 16.19 | 15.71 | 15.43 | 14.25 |
| 31          | 16.82      | ---   | 13.83     | 14.35     | ---   | 15.06 | ---   | 12.75 | ---   | 15.38 | 15.33 | ---   |
| MEAN        | 15.09      | 14.03 | 13.84     | 15.01     | 14.28 | 14.52 | 12.91 | 12.14 | 13.39 | 15.42 | 15.42 | 15.17 |
| MAX         | 16.82      | 16.65 | 14.50     | 17.22     | 14.65 | 15.06 | 15.16 | 13.25 | 16.19 | 16.69 | 16.48 | 16.00 |
| MIN         | 12.70      | 11.27 | 12.55     | 11.21     | 13.64 | 13.59 | 11.47 | 11.19 | 11.57 | 12.32 | 14.72 | 14.25 |
| CAL YR 1985 | MEAN 13.09 |       | MAX 17.78 | MIN 9.03  |       |       |       |       |       |       |       |       |
| WTR YR 1986 | MEAN 14.27 |       | MAX 17.22 | MIN 11.19 |       |       |       |       |       |       |       |       |

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02278600 WEST PALM BEACH CANAL BELOW S-5A-E, NEAR LOXAHATCHEE, FL

LOCATION.--Lat°41'05", long 80°21'50", in SE¼ sec.32, T.43 S., R.40 E., Palm Beach County, Hydrologic Unit 03090202, near left bank, 350 ft downstream from control structure 5A-E, and 6 mi west of Loxahatchee.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--September 1955 to current year. Monthly discharge only for September 1955, published in WSP 1724. Records of gage heights prior to October 1961 are available in files of the Geological Survey.

GAGE.--Water-stage recorder and gate opening indicator. Datum of gage is National Geodetic Vertical Datum of 1929 (South Florida Water Management District bench mark). Auxiliary water-stage recorder in Levee 8 Canal 50 ft upstream from S-5A-E. Prior to October 1981 all gages at datum 0.24 ft higher.

REMARKS.--No estimated daily discharges. Records good. Normal flow to east regulated at S-5A-E for irrigation and drainage. Flow diverted upstream from station through S-5A-S and by pumpage at S-5A. Flow materially affected by regulation of Cross Canal 1.5 mi upstream and hurricane gate structure 5, 20 miles upstream. Negative figures indicate flow to the west. Discharge computed from relation between discharge, head, and gate openings at S-5A-E.

COOPERATION.--Gate-opening record provided by South Florida Water Management District.

AVERAGE DISCHARGE.--31 years, 177 ft<sup>3</sup>/s, 128,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,150 ft<sup>3</sup>/s June 26, 1984; maximum gage height, 16.38 ft present datum, Oct. 23, 1983; maximum daily reverse flow, 930 ft<sup>3</sup>/s Mar. 29, 1982; no flow for many days each year; minimum gage height, 6.24 ft Sept. 9, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 698 ft<sup>3</sup>/s July 18; maximum gage height, 15.02 ft June 24; no flow for many days; maximum daily reverse flow, 381 ft<sup>3</sup>/s June 25; minimum gage height, 8.20 ft May 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT  | NOV    | DEC    | JAN    | FEB  | MAR     | APR     | MAY     | JUN     | JUL      | AUG      | SEP     |
|-------|------|--------|--------|--------|------|---------|---------|---------|---------|----------|----------|---------|
| 1     | .00  | .00    | .00    | .00    | .00  | .00     | .00     | 120     | 40      | .00      | 583      | .00     |
| 2     | .00  | .00    | .00    | .00    | .00  | .00     | 232     | 120     | .00     | .00      | 596      | .00     |
| 3     | .00  | .00    | .00    | .00    | .00  | .00     | 173     | 120     | .00     | 143      | 602      | .00     |
| 4     | .00  | .00    | .00    | .00    | .00  | .00     | .00     | 110     | 25      | 211      | 591      | .00     |
| 5     | .00  | .00    | .00    | .00    | .00  | .00     | .00     | 108     | 30      | 268      | 614      | .00     |
| 6     | .00  | .00    | .00    | .00    | .00  | .00     | .00     | 35      | 35      | 377      | 606      | .00     |
| 7     | .00  | .00    | .00    | .00    | .00  | .00     | .00     | .00     | 40      | 197      | 593      | .00     |
| 8     | .00  | .00    | .00    | .00    | .00  | .00     | .00     | .00     | 37      | 452      | 599      | 127     |
| 9     | .00  | .00    | .00    | .00    | .00  | .00     | 34      | 83      | 12      | 594      | 600      | 268     |
| 10    | .00  | .00    | .00    | .00    | .00  | .00     | 66      | .00     | .00     | 568      | 181      | 366     |
| 11    | .00  | .00    | .00    | .00    | .00  | .00     | 35      | .00     | .00     | 666      | .00      | 508     |
| 12    | .00  | .00    | .00    | .00    | .00  | .00     | 34      | 94      | .00     | 681      | .00      | 243     |
| 13    | .00  | .00    | .00    | .00    | .00  | .00     | 35      | 126     | .00     | 675      | .00      | 91      |
| 14    | .00  | .00    | .00    | .00    | .00  | .00     | 38      | 72      | .00     | 532      | .00      | 87      |
| 15    | .00  | .00    | .00    | .00    | .00  | .00     | 41      | 61      | .00     | 643      | .00      | 79      |
| 16    | .00  | .00    | .00    | .00    | .00  | .00     | 67      | 81      | .00     | 665      | .00      | 33      |
| 17    | .00  | .00    | .00    | .00    | .00  | .00     | 79      | 80      | .00     | 682      | .00      | .00     |
| 18    | .00  | -37    | .00    | .00    | .00  | .00     | 78      | 70      | .00     | 698      | 435      | .00     |
| 19    | .00  | -27    | .00    | .00    | .00  | .00     | 78      | 24      | .00     | 642      | 520      | .00     |
| 20    | .00  | .00    | .00    | .00    | .00  | .00     | 77      | 18      | .00     | 423      | 542      | .00     |
| 21    | .00  | .00    | .00    | .00    | .00  | 128     | 77      | 12      | .00     | 122      | 515      | .00     |
| 22    | .00  | .00    | .00    | .00    | .00  | 347     | 26      | .00     | .00     | .00      | 613      | .00     |
| 23    | .00  | .00    | .00    | .00    | .00  | 354     | 42      | .00     | .00     | .00      | 645      | .00     |
| 24    | .00  | .00    | .00    | 22     | .00  | 430     | 80      | .00     | -240    | 381      | 644      | .00     |
| 25    | .00  | .00    | .00    | .00    | .00  | 445     | 75      | .00     | -381    | 652      | 624      | .00     |
| 26    | .00  | .00    | 155    | .00    | .00  | 309     | 67      | .00     | -121    | 606      | 588      | .00     |
| 27    | .00  | .00    | 20     | 93     | .00  | 52      | 62      | 85      | .00     | 642      | 589      | .00     |
| 28    | .00  | .00    | .00    | 102    | .00  | 114     | 67      | 54      | .00     | 499      | 364      | .00     |
| 29    | .00  | .00    | .00    | 32     | ---  | 193     | 117     | 76      | .00     | 473      | .00      | .00     |
| 30    | .00  | .00    | .00    | .00    | ---  | 115     | 121     | 79      | .00     | 536      | .00      | .00     |
| 31    | .00  | ---    | .00    | .00    | ---  | .00     | ---     | 75      | ---     | 558      | .00      | ---     |
| TOTAL | .00  | -64.00 | 175.00 | 249.00 | .00  | 2487.00 | 1801.00 | 1703.00 | -523.00 | 13586.00 | 11644.00 | 1802.00 |
| MEAN  | .000 | -2.13  | 5.65   | 8.03   | .000 | 80.2    | 60.0    | 54.9    | -17.4   | 438      | 376      | 60.1    |
| MAX   | .00  | .00    | 155    | 102    | .00  | 445     | 232     | 126     | 40      | 698      | 645      | 508     |
| MIN   | .00  | -37    | .00    | .00    | .00  | .00     | .00     | .00     | -381    | .00      | .00      | .00     |
| AC-FT | .00  | -127   | 347    | 494    | .00  | 4930    | 3570    | 3380    | -1040   | 26950    | 23100    | 3570    |

CAL YR 1985 TOTAL -1366.80 MEAN -3.74 MAX 265 MIN -569 AC-FT -2710  
WTR YR 1986 TOTAL 32860.00 MEAN 90.0 MAX 698 MIN -381 AC-FT 65180



## EVERGLADES AND SOUTHEASTERN COASTAL AREA

129

02278600 WEST PALM BEACH CANAL BELOW S-5A-E, NEAR LOXAHATCHEE, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT        | NOV   | DEC       | JAN      | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|------------|-------|-----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 10.13      | 10.91 | 10.51     | 10.32    | 10.55 | 8.81  | 10.32 | 9.66  | 10.46 | 11.33 | 13.07 | 8.68  |
| 2           | 9.25       | 10.22 | 10.44     | 10.39    | 10.47 | 8.60  | 10.71 | 9.74  | 10.14 | 10.64 | 12.87 | 8.76  |
| 3           | 9.53       | 9.49  | 10.48     | 10.26    | 10.35 | 8.63  | 10.37 | 9.98  | 9.42  | 10.86 | 12.72 | 8.97  |
| 4           | 11.23      | 10.24 | 10.51     | 10.18    | 10.40 | 9.09  | 8.83  | 10.43 | 9.54  | 11.71 | 12.74 | 10.27 |
| 5           | 11.72      | 11.03 | 10.93     | 10.47    | 9.88  | 10.05 | 9.14  | 10.53 | 10.06 | 11.90 | 12.70 | 11.46 |
| 6           | 11.59      | 10.82 | 11.12     | 10.38    | 9.26  | 9.12  | 9.32  | 11.13 | 9.60  | 12.65 | 12.71 | 10.65 |
| 7           | 11.67      | 10.63 | 10.85     | 10.09    | 9.61  | 8.88  | 9.30  | 10.67 | 9.54  | 13.22 | 12.66 | 10.38 |
| 8           | 11.78      | 10.45 | 10.71     | 10.64    | 10.50 | 8.86  | 9.05  | 9.94  | 10.21 | 12.91 | 12.59 | 12.18 |
| 9           | 10.93      | 10.26 | 10.92     | 9.69     | 10.60 | 8.78  | 8.95  | 8.99  | 10.55 | 13.42 | 12.42 | 12.60 |
| 10          | 10.52      | 10.17 | 11.09     | 10.99    | 10.71 | 9.88  | 9.96  | 10.07 | 10.60 | 13.44 | 10.59 | 11.82 |
| 11          | 10.20      | 10.19 | 10.94     | 10.81    | 10.71 | 10.79 | 10.01 | 9.94  | 10.22 | 13.58 | 9.05  | 11.46 |
| 12          | 10.05      | 10.35 | 10.63     | 9.84     | 10.51 | 11.61 | 9.92  | 8.94  | 9.93  | 13.83 | 8.76  | 11.60 |
| 13          | 10.02      | 10.47 | 10.45     | 9.38     | 10.45 | 11.85 | 10.04 | 10.06 | 10.05 | 13.84 | 8.81  | 11.80 |
| 14          | 9.82       | 10.20 | 10.43     | 8.68     | 10.60 | 11.43 | 10.09 | 10.29 | 10.38 | 14.46 | 8.68  | 11.89 |
| 15          | 9.59       | 10.26 | 10.54     | 8.80     | 10.36 | 9.58  | 9.70  | 9.71  | 10.62 | 14.10 | 8.92  | 12.22 |
| 16          | 9.73       | 10.17 | 10.50     | 9.47     | 10.32 | 9.43  | 8.83  | 8.59  | 11.14 | 14.13 | 8.58  | 12.35 |
| 17          | 9.74       | 9.88  | 10.51     | 10.62    | 9.81  | 9.76  | 9.42  | 8.60  | 9.37  | 13.97 | 8.71  | 11.50 |
| 18          | 9.46       | 10.42 | 10.56     | 11.04    | 10.30 | 9.65  | 10.41 | 9.26  | 10.24 | 13.75 | 11.04 | 11.13 |
| 19          | 8.90       | 10.51 | 10.57     | 10.91    | 10.92 | 8.83  | 10.50 | 10.05 | 11.02 | 13.56 | 13.03 | 10.98 |
| 20          | 11.09      | 9.62  | 10.53     | 10.82    | 10.53 | 9.02  | 10.51 | 8.56  | 11.23 | 12.34 | 12.90 | 11.03 |
| 21          | 12.05      | 10.42 | 10.26     | 10.56    | 10.46 | 10.69 | 10.51 | 10.08 | 11.91 | 10.52 | 13.36 | 11.07 |
| 22          | 11.05      | 10.63 | 10.14     | 10.60    | 10.62 | 11.52 | 10.21 | 10.86 | 11.73 | 8.99  | 13.19 | 11.21 |
| 23          | 10.73      | 10.74 | 9.88      | 10.69    | 10.68 | 11.19 | 8.94  | 10.80 | 12.13 | 10.44 | 13.20 | 12.18 |
| 24          | 10.93      | 10.67 | 9.13      | 10.75    | 10.82 | 11.37 | 9.62  | 10.53 | 14.17 | 11.23 | 13.08 | 11.44 |
| 25          | 11.14      | 10.79 | 8.93      | 10.62    | 10.49 | 11.80 | 9.44  | 10.33 | 12.16 | 13.64 | 13.10 | 10.70 |
| 26          | 10.95      | 10.75 | 9.63      | 10.46    | 10.09 | 11.36 | 9.87  | 9.37  | 12.14 | 13.96 | 13.27 | 10.29 |
| 27          | 10.83      | 10.65 | 10.67     | 10.35    | 9.79  | 11.17 | 10.24 | 9.61  | 11.64 | 14.06 | 13.25 | 10.08 |
| 28          | 10.90      | 10.61 | 10.67     | 10.21    | 9.10  | 10.27 | 9.98  | 9.97  | 10.66 | 14.20 | 12.29 | 10.16 |
| 29          | 12.21      | 10.57 | 10.59     | 10.68    | ---   | 10.81 | 9.39  | 9.22  | 10.55 | 13.79 | 9.72  | 10.18 |
| 30          | 13.31      | 10.53 | 10.44     | 10.48    | ---   | 10.47 | 9.91  | 10.17 | 12.04 | 13.64 | 8.72  | 10.60 |
| 31          | 12.28      | ---   | 10.29     | 10.50    | ---   | 9.51  | ---   | 10.33 | ---   | 13.32 | 8.60  | ---   |
| MEAN        | 10.75      | 10.42 | 10.45     | 10.31    | 10.32 | 10.09 | 9.78  | 9.88  | 10.78 | 12.82 | 11.46 | 10.99 |
| MAX         | 13.31      | 11.03 | 11.12     | 11.04    | 10.92 | 11.85 | 10.71 | 11.13 | 14.17 | 14.46 | 13.36 | 12.60 |
| MIN         | 8.90       | 9.49  | 8.93      | 8.68     | 9.10  | 8.60  | 8.83  | 8.56  | 9.37  | 8.99  | 8.58  | 8.68  |
| CAL YR 1985 | MEAN 10.96 |       | MAX 15.07 | MIN 8.49 |       |       |       |       |       |       |       |       |
| WTR YR 1986 | MEAN 10.68 |       | MAX 14.46 | MIN 8.56 |       |       |       |       |       |       |       |       |

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02279000 WEST PALM BEACH CANAL AT WEST PALM BEACH, FL  
(National stream-quality accounting network station)

LOCATION.--Lat 26°38'40", long 80°03'22", in NW¼ sec.15, T.44 S., R.34 E., Palm Beach County, Hydrologic Unit 03090202, on left bank in concrete control house north of control structure, 200 ft downstream from bridge on U.S. Highway 1, and 4.9 mi south of courthouse in West Palm Beach.

DRAINAGE AREA.--Indeterminate.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1939 to current year. Records of gage heights prior to October 1961 are available in files of the Geological Survey.

GAGE.--Digital stage and gate recorders. Datum of gage is National Geodetic Vertical Datum of 1929. (State Department of Transportation bench mark). Prior to May 1, 1984, digital upstream stage recorder, and gate-opening indicator at site 200 ft upstream at same datum. Prior to April 26, 1940, nonrecording gage, April 26, 1940 to December 20, 1949, water-stage record, at same site at datum 0.25 ft higher, and December 20, 1949 to June 3, 1959, at same site and present datum. June 3, 1959 to September 30, 1985, water-stage and deflection vane recorder at site 800 ft upstream at present datum.

REMARKS.--No estimated daily discharges. Records poor. Flow regulated by operation of control structure. Since January 1954, flow affected by control structures 20 mi upstream. Discharge computed from relations between discharge and gate openings.

COOPERATION.--Gate-operation log provided by South Florida Water Management District.

AVERAGE DISCHARGE.--45 years (water years 1941-84, 1986), 714 ft<sup>3</sup>/s, 517,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,640 ft<sup>3</sup>/s, Mar. 29, 1982; maximum gage height, 10.89 ft Oct. 13, 1947, present datum; minimum flow consists of leakage estimated as 10 ft<sup>3</sup>/s for many days in 1967-1984; no flow for some days during 1984, 1985, 1986; minimum gage height, 2.85 ft Dec. 3, 1953; Oct. 9, 1963, and Sept. 9, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,310 ft<sup>3</sup>/s July 14; maximum gage height, 8.61 ft Oct. 31; no flow for some days; minimum gage height, 6.92 ft Aug. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT      | NOV      | DEC     | JAN      | FEB     | MAR      | APR     | MAY     | JUN      | JUL   | AUG   | SEP   |
|-------|----------|----------|---------|----------|---------|----------|---------|---------|----------|-------|-------|-------|
| 1     | 876      | 807      | 117     | 212      | 278     | .00      | 508     | .00     | .00      | 1110  | 1310  | 340   |
| 2     | 876      | 541      | 117     | 212      | 317     | .00      | 684     | .00     | .00      | 1070  | 1400  | 447   |
| 3     | 666      | 366      | 163     | 212      | 262     | .00      | 682     | .00     | .00      | 1060  | 1360  | 400   |
| 4     | 455      | 382      | 117     | 212      | 258     | .00      | 273     | .00     | .00      | 1320  | 1360  | 532   |
| 5     | 342      | 476      | 276     | 212      | 317     | 262      | 200     | .00     | .00      | 1480  | 1230  | 722   |
| 6     | .00      | 326      | 296     | 88       | 297     | 286      | 240     | .00     | .00      | 1630  | 1110  | 1010  |
| 7     | .00      | 460      | 296     | .00      | 173     | 117      | 189     | .00     | .00      | 1770  | 1020  | 1010  |
| 8     | .00      | 326      | 261     | 747      | 166     | .00      | .00     | .00     | 477      | 1690  | 1110  | 1230  |
| 9     | 173      | 326      | 271     | 915      | 343     | .00      | 150     | .00     | 135      | 1600  | 1110  | 1280  |
| 10    | 197      | 326      | 303     | 1680     | 273     | 819      | 108     | .00     | 144      | 1430  | 844   | 1160  |
| 11    | 217      | 326      | 308     | 1300     | 236     | 897      | .00     | .00     | 129      | 1340  | 728   | 1160  |
| 12    | 407      | 326      | 259     | 1030     | 40      | 484      | 142     | .00     | 129      | 1450  | 692   | 741   |
| 13    | 226      | 326      | 244     | 979      | 47      | 711      | 157     | .00     | 161      | 1940  | 613   | 477   |
| 14    | 271      | 326      | 237     | 599      | 126     | 712      | 76      | 206     | 133      | 3310  | 471   | 469   |
| 15    | 380      | 291      | 235     | 410      | .00     | 722      | .00     | .00     | 395      | 1950  | 1090  | 514   |
| 16    | 224      | 218      | 72      | 368      | 241     | 896      | .00     | .00     | 639      | 1510  | 704   | 609   |
| 17    | 283      | 282      | .00     | 733      | 164     | 686      | .00     | .00     | 623      | 1580  | 700   | 467   |
| 18    | 250      | 1180     | 219     | 717      | 720     | 670      | .00     | .00     | 754      | 1450  | 1700  | 263   |
| 19    | 417      | 833      | 164     | 575      | 355     | 471      | .00     | .00     | 1020     | 1400  | 1520  | 245   |
| 20    | 768      | 340      | 157     | 352      | 269     | 386      | 196     | .00     | 1050     | 1270  | 1510  | 364   |
| 21    | 876      | 295      | 157     | 599      | .00     | 723      | 69      | .00     | 1280     | 929   | 1510  | 265   |
| 22    | 702      | 344      | 157     | 254      | 168     | 926      | .00     | 210     | 1190     | 737   | 1510  | 392   |
| 23    | 433      | 312      | 157     | 447      | 150     | 716      | .00     | 398     | 1440     | 859   | 1350  | 647   |
| 24    | 776      | 312      | 40      | 223      | 225     | 734      | .00     | 311     | 1840     | 1360  | 1360  | 451   |
| 25    | 82       | 154      | .00     | 345      | 285     | 842      | .00     | 204     | 1560     | 1430  | 1230  | 418   |
| 26    | .00      | .00      | .00     | 465      | 5.2     | 938      | .00     | .00     | 1500     | 1430  | 1280  | 289   |
| 27    | .00      | 156      | 138     | 291      | 166     | 934      | .00     | .00     | 1190     | 1430  | 1290  | 273   |
| 28    | 273      | 117      | 108     | 281      | 113     | 780      | .00     | .00     | 970      | 1540  | 1160  | 177   |
| 29    | 838      | 117      | 326     | 350      | ---     | 835      | .00     | .00     | 1110     | 1520  | 788   | 156   |
| 30    | 827      | 117      | 212     | 251      | ---     | 865      | .00     | .00     | 1290     | 1550  | 430   | 215   |
| 31    | 1100     | ---      | 212     | 168      | ---     | 710      | ---     | .00     | ---      | 1550  | 406   | ---   |
| TOTAL | 12935.00 | 10708.00 | 5619.00 | 15227.00 | 5994.20 | 17122.00 | 3674.00 | 1329.00 | 19159.00 | 45695 | 33896 | 16723 |
| MEAN  | 417      | 357      | 181     | 491      | 214     | 552      | 122     | 42.9    | 639      | 1474  | 1093  | 557   |
| MAX   | 1100     | 1180     | 326     | 1680     | 720     | 938      | 684     | 398     | 1840     | 3310  | 1700  | 1280  |
| MIN   | .00      | .00      | .00     | .00      | .00     | .00      | .00     | .00     | .00      | 737   | 406   | 156   |
| AC-FT | 25660    | 21240    | 11150   | 30200    | 11890   | 33960    | 7290    | 2640    | 38000    | 90640 | 67230 | 33170 |

CAL YR 1985 TOTAL 128812.00 MEAN 353 MAX 2660 MIN .00 AC-FT 255500  
WTR YR 1986 TOTAL 188081.20 MEAN 515 MAX 3310 MIN .00 AC-FT 373100

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GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1           | 8.10 | 8.05 | 8.13 | 8.02 | 8.09 | 8.12 | 8.04 | 7.98 | 8.11 | 8.03 | 8.05 | 8.16 |
| 2           | 8.07 | 8.00 | 8.16 | 8.01 | 8.10 | 8.19 | 8.03 | 7.94 | 8.13 | 8.02 | 7.98 | 8.16 |
| 3           | 7.96 | 7.97 | 8.17 | 8.04 | 8.09 | 8.25 | 8.06 | 7.93 | 8.12 | 8.16 | 7.94 | 8.23 |
| 4           | 8.00 | 8.11 | 8.17 | 8.04 | 8.06 | 8.28 | 8.09 | 7.93 | 8.12 | 8.04 | 7.89 | 8.03 |
| 5           | 8.02 | 8.05 | 8.10 | 8.02 | 8.05 | 8.10 | 8.10 | 7.95 | 8.12 | 8.05 | 7.94 | 8.04 |
| 6           | 8.06 | 8.05 | 8.14 | 8.00 | 8.04 | 7.92 | 8.13 | 8.13 | 8.13 | 7.96 | 7.99 | 7.97 |
| 7           | 8.16 | 8.08 | 8.08 | 8.11 | 8.07 | 7.86 | 8.11 | 8.20 | 8.12 | 8.05 | 8.09 | 7.90 |
| 8           | 8.16 | 8.08 | 7.92 | 8.05 | 8.13 | 7.94 | 8.24 | 8.18 | 8.04 | 7.90 | 8.09 | 8.00 |
| 9           | 7.96 | 8.05 | 7.96 | 8.00 | 8.08 | 7.98 | 8.14 | 8.20 | 8.13 | 7.87 | 8.06 | 8.10 |
| 10          | 7.92 | 8.01 | 8.08 | 8.02 | 8.10 | 8.01 | 8.14 | 8.21 | 8.07 | 8.10 | 8.02 | 8.10 |
| 11          | 8.03 | 7.98 | 8.03 | 7.97 | 8.10 | 7.96 | 8.21 | 8.25 | 8.10 | 8.29 | 7.91 | 7.89 |
| 12          | 8.09 | 8.01 | 8.11 | 8.08 | 8.09 | 8.05 | 8.23 | 8.28 | 8.06 | 8.14 | 7.93 | 7.95 |
| 13          | 8.06 | 8.11 | 8.01 | 7.98 | 8.19 | 8.01 | 8.10 | 8.30 | 8.08 | 8.06 | 8.02 | 8.10 |
| 14          | 8.07 | 8.14 | 8.01 | 7.98 | 8.11 | 7.97 | 8.10 | 8.04 | 8.17 | 8.04 | 8.11 | 8.13 |
| 15          | 8.03 | 8.07 | 7.97 | 8.04 | 8.17 | 7.97 | 8.16 | 8.11 | 8.11 | 7.90 | 8.03 | 8.13 |
| 16          | 8.03 | 8.09 | 7.93 | 8.00 | 8.07 | 7.86 | 8.25 | 8.11 | 8.05 | 8.03 | 7.93 | 8.11 |
| 17          | 8.05 | 8.10 | 8.12 | 7.99 | 8.12 | 7.95 | 8.28 | 8.11 | 8.07 | 8.02 | 8.06 | 8.02 |
| 18          | 8.04 | 7.73 | 8.09 | 7.89 | 7.73 | 7.95 | 8.28 | 8.12 | 8.07 | 8.04 | 7.77 | 7.98 |
| 19          | 8.09 | 7.66 | 8.11 | 7.99 | 8.05 | 8.02 | 8.29 | 8.13 | 8.00 | 7.99 | 7.79 | 8.09 |
| 20          | 7.95 | 7.98 | 8.11 | 8.06 | 8.03 | 8.09 | 8.14 | 8.12 | 8.05 | 7.93 | 8.15 | 8.09 |
| 21          | 7.98 | 8.08 | 8.09 | 7.98 | 8.11 | 7.99 | 8.08 | 8.17 | 8.18 | 8.15 | 8.15 | 8.10 |
| 22          | 7.97 | 8.09 | 8.04 | 8.07 | 8.14 | 7.91 | 8.17 | 8.22 | 8.11 | 7.98 | 8.01 | 8.11 |
| 23          | 7.99 | 7.99 | 7.97 | 8.06 | 8.13 | 7.97 | 8.14 | 8.04 | 8.07 | 7.97 | 7.95 | 8.07 |
| 24          | 7.95 | 7.97 | 7.95 | 8.04 | 8.16 | 8.01 | 8.11 | 7.98 | 7.91 | 7.90 | 8.01 | 8.08 |
| 25          | 7.96 | 7.89 | 8.08 | 8.10 | 8.03 | 7.98 | 8.10 | 7.87 | 8.00 | 8.07 | 8.07 | 8.12 |
| 26          | 8.03 | 8.04 | 8.12 | 8.03 | 8.15 | 7.88 | 8.09 | 8.00 | 7.96 | 8.10 | 8.12 | 8.08 |
| 27          | 8.12 | 8.12 | 8.18 | 8.11 | 8.11 | 7.93 | 8.09 | 8.08 | 8.01 | 8.13 | 8.13 | 8.16 |
| 28          | 8.13 | 8.03 | 8.09 | 8.16 | 8.06 | 7.96 | 8.07 | 8.10 | 8.22 | 8.11 | 8.15 | 8.10 |
| 29          | 7.91 | 8.03 | 8.02 | 8.11 | ---  | 7.96 | 8.04 | 8.09 | 8.05 | 8.10 | 8.00 | 8.13 |
| 30          | 8.04 | 8.09 | 8.05 | 8.01 | ---  | 8.02 | 8.03 | 8.10 | 7.91 | 8.06 | 8.00 | 8.14 |
| 31          | 8.11 | ---  | 8.05 | 8.08 | ---  | 7.98 | ---  | 8.10 | ---  | 7.89 | 8.03 | ---  |
| MEAN        | 8.03 | 8.02 | 8.07 | 8.03 | 8.08 | 8.00 | 8.13 | 8.10 | 8.08 | 8.03 | 8.01 | 8.08 |
| MAX         | 8.16 | 8.14 | 8.18 | 8.16 | 8.19 | 8.28 | 8.29 | 8.30 | 8.22 | 8.29 | 8.15 | 8.23 |
| MIN         | 7.91 | 7.66 | 7.92 | 7.89 | 7.73 | 7.86 | 8.03 | 7.87 | 7.91 | 7.87 | 7.77 | 7.89 |
|             |      |      |      |      |      |      |      |      |      |      |      |      |
| CAL YR 1985 | MEAN | 8.12 | MAX  | 8.44 | MIN  | 7.08 |      |      |      |      |      |      |
| WTR YR 1986 | MEAN | 8.06 | MAX  | 8.30 | MIN  | 7.66 |      |      |      |      |      |      |

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02279000 WEST PALM BEACH CANAL AT WEST PALM BEACH, FL--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1953 to September 1954, October 1957 to September 1958, October 1960 to September 1961, July 1964 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | TEMPER-<br>ATURE<br>AIR<br>(DEG C)<br>(00020) | BARO-<br>METRIC<br>PRES-<br>SURE<br>(MM<br>OF<br>HG)<br>(00025) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | TUR-<br>BID-<br>ITY<br>(NTU)<br>(00076) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS)<br>(00403) |
|--------------|------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------|------------------------------------------------|-------------------------------------------|--------------------------------------------------|
| DEC<br>09... | --   | 22.0                                            | 27.0                                          | 763                                                             | 1028                                                               | 1028                                                              | --                                      | 755                                                          | 5.2                                            | 7.85                                      | --                                               |
| MAR<br>24... | 1400 | 20.5                                            | 26.5                                          | 768                                                             | 1028                                                               | 1028                                                              | --                                      | 1120                                                         | --                                             | 7.80                                      | --                                               |
| 25...        | 1400 | 20.5                                            | 26.5                                          | 768                                                             | 1028                                                               | 80020                                                             | 7.5                                     | 1120                                                         | --                                             | 7.80                                      | 8.00                                             |
| JUN<br>24... | 1300 | 27.5                                            | 28.5                                          | 760                                                             | 1028                                                               | 80020                                                             | 44                                      | 535                                                          | 6.6                                            | 7.90                                      | 7.70                                             |
| SEP<br>17... | 1300 | 30.0                                            | 34.5                                          | 763                                                             | 1028                                                               | 80020                                                             | 1.0                                     | 639                                                          | 5.7                                            | 7.22                                      | 7.80                                             |

| DATE         | ALKA-<br>LINITY<br>WH WAT<br>TOTAL<br>FIELD<br>MG/L AS<br>CACO3<br>(00410) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00666) | PHOS-<br>PHORUS,<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3)<br>(00900) |
|--------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------|
| DEC<br>09... | 213                                                                        | --                                                                       | --                                                              | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                              | --                                                                        | --                                                |
| MAR<br>24... | 256                                                                        | --                                                                       | --                                                              | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                              | --                                                                        | --                                                |
| 25...        | 256                                                                        | --                                                                       | --                                                              | --                                                                       | --                                                                            | --                                                                       | --                                                                       | --                                                              | --                                                                        | 310                                               |
| JUN<br>24... | 159                                                                        | 0.150                                                                    | 0.150                                                           | 0.060                                                                    | 1.3                                                                           | 0.550                                                                    | 0.150                                                                    | 0.090                                                           | 0.080                                                                     | 190                                               |
| SEP<br>17... | 192                                                                        | 0.180                                                                    | 0.150                                                           | 0.020                                                                    | 0.30                                                                          | 0.200                                                                    | 0.150                                                                    | 0.130                                                           | 0.120                                                                     | 230                                               |

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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02279000 WEST PALM BEACH CANAL AT WEST PALM BEACH, FL--Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT FLD<br>MG/L AS<br>CACO3<br>(00902) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA)<br>(00915) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG)<br>(00925) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO<br>(00931) | PERCENT<br>SODIUM<br>(00932) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F)<br>(00950) |
|--------------|------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|
| DEC<br>09... | --                                                                           | --                                                      | --                                                              | --                                                      | --                                                 | --                           | --                                                             | --                                                             | --                                                       | --                                                            |
| MAR<br>24... | --                                                                           | --                                                      | --                                                              | --                                                      | --                                                 | --                           | --                                                             | --                                                             | --                                                       | --                                                            |
| 25...        | 54                                                                           | 92                                                      | 19                                                              | 110                                                     | 3                                                  | 43                           | 7.3                                                            | 180                                                            | 72                                                       | 0.30                                                          |
| JUN<br>24... | 32                                                                           | 67                                                      | 5.5                                                             | 36                                                      | 1                                                  | 29                           | 4.0                                                            | 57                                                             | 36                                                       | 0.10                                                          |
| SEP<br>17... | 39                                                                           | 78                                                      | 8.5                                                             | 46                                                      | 1                                                  | 30                           | 4.6                                                            | 69                                                             | 38                                                       | 0.20                                                          |

| DATE         | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SIO2)<br>(00955) | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS)<br>(01000) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA)<br>(01005) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE)<br>(01010) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD)<br>(01025) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR)<br>(01030) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO)<br>(01035) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU)<br>(01040) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE)<br>(01046) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB)<br>(01049) |
|--------------|--------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|
| DEC<br>09... | --                                                           | --                                                      | --                                                      | --                                                              | --                                                      | --                                                             | --                                                      | --                                                      | --                                                    | --                                                    |
| MAR<br>24... | --                                                           | --                                                      | --                                                      | --                                                              | --                                                      | --                                                             | --                                                      | --                                                      | --                                                    | --                                                    |
| 25...        | 11                                                           | 2                                                       | 49                                                      | <0.5                                                            | <1                                                      | <1                                                             | <3                                                      | 1                                                       | 57                                                    | 1                                                     |
| JUN<br>24... | 6.6                                                          | 2                                                       | 21                                                      | <0.5                                                            | <1                                                      | <1                                                             | <3                                                      | 5                                                       | 85                                                    | <5                                                    |
| SEP<br>17... | 10                                                           | 2                                                       | 31                                                      | <0.5                                                            | <1                                                      | <1                                                             | <3                                                      | 2                                                       | 86                                                    | <5                                                    |



## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02279000 WEST PALM BEACH CANAL AT WEST PALM BEACH, FL--Continued

## WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN)<br>(01056)           | MOLYB-<br>DENUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MO)<br>(01060)              | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI)<br>(01065)                       | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG)<br>(01075)                   | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR)<br>(01080)          | VANA-<br>DIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS V)<br>(01085) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN)<br>(01090) | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL)<br>(01106)      | LITHIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS LI)<br>(01130)    | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE)<br>(01145)         |
|--------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------|
| DEC<br>09... | --                                                                        | --                                                                            | --                                                                            | --                                                                        | --                                                                       | --                                                            | --                                                    | --                                                                  | --                                                         | --                                                                     |
| MAR<br>24... | --                                                                        | --                                                                            | --                                                                            | --                                                                        | --                                                                       | --                                                            | --                                                    | --                                                                  | --                                                         | --                                                                     |
| 25...        | 7                                                                         | <10                                                                           | <1                                                                            | <1                                                                        | 1600                                                                     | <6                                                            | 7                                                     | <10                                                                 | 14                                                         | <1                                                                     |
| JUN<br>24... | 5                                                                         | <10                                                                           | 3                                                                             | <1                                                                        | 490                                                                      | <6                                                            | 170                                                   | 20                                                                  | 4                                                          | <1                                                                     |
| SEP<br>17... | 11                                                                        | <10                                                                           | 1                                                                             | <1                                                                        | 870                                                                      | <6                                                            | 12                                                    | 20                                                                  | 9                                                          | <1                                                                     |
| DATE         | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML)<br>(31625) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML)<br>(31673) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L)<br>(70301) | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM<br>(70331) | SEDI-<br>MENT,<br>SUS-<br>PENDED<br>(MG/L)<br>(80154)         | SAM-<br>PLING<br>METHOD,<br>CODES<br>(82398)          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM)<br>(90095) | ALKA-<br>LINITY<br>LAB<br>(MG/L<br>AS<br>CACO3)<br>(90410) | HARD-<br>NESS<br>NONCAR-<br>BONATE<br>(MG/L<br>AS<br>CACO3)<br>(95902) |
| DEC<br>09... | 34                                                                        | 250                                                                           | --                                                                            | --                                                                        | 60                                                                       | 5                                                             | 10.0                                                  | --                                                                  | --                                                         | --                                                                     |
| MAR<br>24... | --                                                                        | --                                                                            | --                                                                            | --                                                                        | 43                                                                       | 7                                                             | 40.0                                                  | --                                                                  | --                                                         | --                                                                     |
| 25...        | 12                                                                        | 16                                                                            | 689                                                                           | 650                                                                       | --                                                                       | --                                                            | 40.0                                                  | 1120                                                                | 267                                                        | 54                                                                     |
| JUN<br>24... | --                                                                        | --                                                                            | 344                                                                           | 310                                                                       | --                                                                       | --                                                            | 40.0                                                  | 547                                                                 | 155                                                        | 32                                                                     |
| SEP<br>17... | 110                                                                       | 40                                                                            | 393                                                                           | 370                                                                       | 50                                                                       | 6                                                             | 10.0                                                  | 636                                                                 | 197                                                        | 39                                                                     |

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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02280500 HILLSBORO CANAL BELOW HGS-4, NEAR SOUTH BAY, FL

LOCATION.--Lat 26°42'00", long 80°42'45", in SW¼ sec.35, T.43 S., R.36 E., Palm Beach County, Hydrologic Unit 03090202, 15 ft from south bank, 200 ft downstream from North New River Canal, 1,000 ft downstream from hurricane gate structure 4 and pump station 2 at Lake Okeechobee, and 2.5 mi north of South Bay.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1957 to current year.

GAGE.--Electromagnetic velocity meter recorder. Water-stage recorder at pump station 2 used for gage heights at this station. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark).

REMARKS.--Records poor. Flow regulated by hurricane gates and pump station at Lake Okeechobee. Flow frequently reversed during and after periods of heavy rainfall by pumpage into the canal from agricultural lands in the Everglades, or by the operation of pump station 2 (negative figures indicate flow reversed). Discharge computed from continuous velocity record obtained from electromagnetic velocity meter. See records for North New River Canal below HGS-4, near South Bay (station 02283500) for table of daily gage height.

AVERAGE DISCHARGE.--29 years, -23.8 ft<sup>3</sup>/s, -17,240 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 948 ft<sup>3</sup>/s May 5, 1966; maximum gage height, 14.09 ft Sept. 28, 1962; maximum daily reverse flow, 1,760 ft<sup>3</sup>/s Mar. 30, 1970; minimum gage height, 6.98 ft observed Oct. 28, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 324 ft<sup>3</sup>/s May 2; maximum gage height, 13.35 ft Mar. 10, 11; maximum daily reverse flow, 769 ft<sup>3</sup>/s June 21; minimum gage height, 9.64 ft Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT    | NOV     | DEC     | JAN   | FEB     | MAR     | APR    | MAY     | JUN     | JUL    | AUG  | SEP    |
|-------|--------|---------|---------|-------|---------|---------|--------|---------|---------|--------|------|--------|
| 1     | 18     | e-166   | -79     | -83   | -34     | -284    | -53    | 188     | 18      | -44    | 178  | 29     |
| 2     | 81     | -114    | -21     | -62   | -47     | -266    | 18     | 324     | .00     | 70     | 60   | 28     |
| 3     | 75     | -164    | 18      | -162  | -39     | -91     | 24     | 242     | 61      | -52    | 32   | 103    |
| 4     | -154   | -84     | 64      | -176  | -186    | -257    | -33    | 127     | 109     | -111   | 141  | 12     |
| 5     | -159   | -118    | -191    | -119  | -243    | -479    | -143   | 32      | 55      | -200   | 175  | -92    |
| 6     | 36     | -117    | -8.4    | -92   | -245    | -145    | -117   | -155    | 50      | 96     | 181  | -48    |
| 7     | 165    | -105    | 43      | -127  | -283    | -173    | -133   | -208    | 80      | 125    | 62   | -32    |
| 8     | 136    | -102    | -23     | -18   | -279    | -147    | -146   | -111    | 113     | 18     | -21  | 96     |
| 9     | 86     | -110    | -132    | -11   | -212    | -147    | -149   | 72      | 13      | 182    | 51   | 51     |
| 10    | 19     | -97     | -101    | -170  | -261    | -432    | -104   | 30      | -5.7    | 316    | 39   | 156    |
| 11    | 15     | -60     | -98     | -33   | -305    | -661    | 57     | 35      | -579    | 79     | -96  | 178    |
| 12    | 16     | 1.8     | -103    | -32   | -258    | -216    | 36     | 26      | 34      | 238    | -168 | 70     |
| 13    | 27     | 20      | -108    | 11    | -287    | -93     | 31     | 32      | 18      | 192    | -85  | 15     |
| 14    | -21    | 19      | -52     | 16    | -302    | -82     | 18     | 42      | 55      | 226    | -177 | 24     |
| 15    | -20    | 19      | -17     | -58   | -341    | -53     | 8.6    | 63      | 168     | 215    | -3.5 | 13     |
| 16    | -302   | 20      | 1.1     | -126  | -377    | -101    | 25     | 40      | 168     | 120    | 84   | 56     |
| 17    | e-100  | 10      | -45     | -229  | -365    | -58     | 21     | 38      | 71      | 146    | -6.7 | 18     |
| 18    | e 12   | 14      | -53     | -125  | -254    | 16      | 21     | 42      | 19      | 28     | -5.4 | -24    |
| 19    | e 17   | -142    | -67     | -96   | 6.5     | -126    | 13     | 35      | 77      | 28     | -78  | -51    |
| 20    | e 5.0  | -157    | -77     | -103  | -54     | -45     | 12     | -4.4    | -423    | -1.2   | -114 | -32    |
| 21    | e -75  | -33     | -79     | -104  | -24     | -5.5    | 34     | 7.1     | -769    | -31    | -101 | -21    |
| 22    | e -75  | -71     | -71     | -108  | -109    | 1.3     | 27     | 43      | -74     | 153    | -88  | 111    |
| 23    | e 5.0  | -66     | -5.8    | -116  | -126    | -20     | 29     | 25      | 217     | 157    | -68  | 73     |
| 24    | e 11   | -66     | 3.7     | -94   | -178    | 8.4     | 35     | 22      | 272     | -111   | 27   | 108    |
| 25    | e 6.0  | -75     | -5.8    | -83   | -220    | -41     | 25     | 31      | 207     | 47     | -210 | 148    |
| 26    | e -75  | -98     | 73      | -69   | -229    | -34     | 28     | -99     | 142     | 42     | -136 | 108    |
| 27    | e-100  | -101    | 82      | 60    | -259    | -1.1    | 13     | .80     | 7.7     | 63     | -33  | 29     |
| 28    | e-100  | -101    | -95     | 37    | -342    | -252    | 14     | 123     | -205    | 106    | 8.8  | 6.2    |
| 29    | e-100  | -72     | -100    | -57   | ---     | -23     | 24     | 114     | -171    | 173    | 283  | 29     |
| 30    | e-100  | -50     | -122    | -97   | ---     | 13      | 19     | 192     | -126    | -133   | 56   | 21     |
| 31    | e-100  | ---     | -106    | -73   | ---     | -25     | ---    | 66      | ---     | 20     | 26   | ---    |
| TOTAL | -751.0 | -2165.2 | -1475.2 | -2499 | -5852.5 | -4218.9 | -345.4 | 1414.50 | -398.00 | 2156.8 | 13.2 | 1182.2 |
| MEAN  | -24.2  | -72.2   | -47.6   | -80.6 | -209    | -136    | -11.5  | 45.6    | -13.3   | 69.6   | .43  | 39.4   |
| MAX   | 165    | 20      | 82      | 60    | 6.5     | 16      | 57     | 324     | 272     | 316    | 283  | 178    |
| MIN   | -302   | -166    | -191    | -229  | -377    | -661    | -149   | -208    | -769    | -200   | -210 | -92    |
| AC-FT | -1490  | -4290   | -2930   | -4960 | -11610  | -8370   | -685   | 2810    | -789    | 4280   | 26   | 2340   |

CAL YR 1985 TOTAL 14836.90 MEAN 40.6 MAX 911 MIN -1080 AC-FT 29430  
WTR YR 1986 TOTAL -12938.50 MEAN -35.4 MAX 324 MIN -769 AC-FT -25660

e Estimated

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

262358080055700 E-4 CANAL, CLINT-MOORE RD., BOCA RATON, FL

LOCATION.--Lat 26°23'58", long 80°05'57", in NE¼NW¼ sec.6, T.47 S., R.43 E., Palm Beach County, Hydrologic Unit 03090202, .5 mi west of Clint Moore Road from I-95 overpass in Boca Raton.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1982 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 adjustment of 1972.

REMARKS.--Records good. Station is part of a canal system operated and controlled by Lake Worth Drainage District.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 5.87 ft Nov. 16, 1982; minimum, 3.88 ft May 25, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.86 ft June 22, Sept. 7; minimum, 4.09 ft May 20.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 4.67 | 4.53 | 4.41 | 4.48 | 4.46 | 4.33 | 4.66 | 4.33 | 4.27 | 4.67 | 4.57 | 4.54 |
| 2    | 4.69 | 4.53 | 4.40 | 4.49 | 4.47 | 4.33 | 4.63 | 4.29 | 4.26 | 4.66 | 4.58 | 4.53 |
| 3    | 4.68 | 4.51 | 4.38 | 4.48 | 4.47 | 4.34 | 4.60 | 4.25 | 4.25 | 4.66 | 4.56 | 4.53 |
| 4    | 4.68 | 4.51 | 4.37 | 4.45 | 4.46 | 4.34 | 4.58 | 4.23 | 4.24 | 4.68 | 4.61 | 4.52 |
| 5    | 4.67 | 4.50 | 4.58 | 4.43 | 4.47 | 4.33 | 4.56 | 4.23 | 4.22 | 4.73 | 4.63 | 4.50 |
| 6    | 4.65 | 4.50 | 4.58 | 4.44 | 4.47 | 4.37 | 4.55 | 4.27 | 4.18 | 4.76 | 4.61 | 4.61 |
| 7    | 4.64 | 4.50 | 4.53 | 4.44 | 4.46 | 4.36 | 4.54 | 4.22 | 4.21 | 4.76 | 4.59 | 4.77 |
| 8    | 4.63 | 4.49 | 4.47 | 4.55 | 4.46 | 4.35 | 4.53 | 4.21 | 4.35 | 4.74 | 4.58 | 4.78 |
| 9    | 4.63 | 4.50 | 4.46 | 4.59 | 4.46 | 4.37 | 4.52 | 4.18 | 4.37 | 4.69 | 4.55 | 4.75 |
| 10   | 4.64 | 4.51 | 4.46 | 4.76 | 4.48 | 4.53 | 4.49 | 4.17 | 4.37 | 4.61 | 4.54 | 4.71 |
| 11   | 4.64 | 4.58 | 4.46 | 4.73 | 4.44 | 4.54 | 4.49 | 4.20 | 4.36 | 4.57 | 4.56 | 4.68 |
| 12   | 4.62 | 4.53 | 4.45 | 4.72 | 4.40 | 4.52 | 4.50 | 4.19 | 4.46 | 4.56 | 4.56 | 4.65 |
| 13   | 4.61 | 4.49 | 4.45 | 4.68 | 4.38 | 4.51 | 4.49 | 4.21 | 4.65 | 4.59 | 4.55 | 4.62 |
| 14   | 4.59 | 4.45 | 4.43 | 4.65 | 4.39 | 4.53 | 4.46 | 4.19 | 4.60 | 4.61 | 4.55 | 4.60 |
| 15   | 4.59 | 4.44 | 4.43 | 4.62 | 4.39 | 4.56 | 4.46 | 4.17 | 4.63 | 4.59 | 4.56 | 4.59 |
| 16   | 4.58 | 4.42 | 4.43 | 4.60 | 4.39 | 4.61 | 4.46 | 4.17 | 4.61 | 4.58 | 4.58 | 4.58 |
| 17   | 4.57 | 4.40 | 4.44 | 4.60 | 4.37 | 4.60 | 4.44 | 4.19 | 4.61 | 4.57 | 4.62 | 4.57 |
| 18   | 4.56 | 4.36 | 4.43 | 4.61 | 4.40 | 4.59 | 4.43 | 4.21 | 4.58 | 4.56 | 4.66 | 4.55 |
| 19   | 4.55 | 4.48 | 4.41 | 4.60 | 4.40 | 4.59 | 4.42 | 4.17 | 4.58 | 4.55 | 4.66 | 4.52 |
| 20   | 4.56 | 4.51 | 4.41 | 4.58 | 4.38 | 4.57 | 4.43 | 4.12 | 4.66 | 4.56 | 4.66 | 4.56 |
| 21   | 4.54 | 4.48 | 4.41 | 4.56 | 4.40 | 4.61 | 4.44 | 4.38 | 4.69 | 4.56 | 4.64 | 4.56 |
| 22   | 4.53 | 4.46 | 4.41 | 4.56 | 4.40 | 4.58 | 4.42 | 4.45 | 4.75 | 4.53 | 4.61 | 4.54 |
| 23   | 4.53 | 4.44 | 4.42 | 4.52 | 4.38 | 4.56 | 4.39 | 4.42 | 4.79 | 4.52 | 4.59 | 4.53 |
| 24   | 4.52 | 4.44 | 4.42 | 4.49 | 4.33 | 4.55 | 4.35 | 4.41 | 4.77 | 4.51 | 4.58 | 4.54 |
| 25   | 4.51 | 4.42 | 4.40 | 4.49 | 4.35 | 4.54 | 4.35 | 4.39 | 4.75 | 4.50 | 4.57 | 4.52 |
| 26   | 4.51 | 4.40 | 4.39 | 4.50 | 4.35 | 4.59 | 4.37 | 4.36 | 4.72 | 4.50 | 4.56 | 4.49 |
| 27   | 4.51 | 4.39 | 4.40 | 4.49 | 4.34 | 4.75 | 4.37 | 4.34 | 4.70 | 4.50 | 4.54 | 4.48 |
| 28   | 4.53 | 4.41 | 4.45 | 4.47 | 4.34 | 4.76 | 4.34 | 4.34 | 4.69 | 4.48 | 4.55 | 4.47 |
| 29   | 4.54 | 4.42 | 4.52 | 4.47 | ---  | 4.75 | 4.36 | 4.31 | 4.68 | 4.56 | 4.54 | 4.46 |
| 30   | 4.54 | 4.41 | 4.49 | 4.47 | ---  | 4.72 | 4.37 | 4.28 | 4.67 | 4.61 | 4.52 | 4.44 |
| 31   | 4.53 | ---  | 4.50 | 4.46 | ---  | 4.69 | ---  | 4.28 | ---  | 4.58 | 4.54 | ---  |
| MEAN | 4.59 | 4.47 | 4.44 | 4.55 | 4.41 | 4.53 | 4.47 | 4.26 | 4.52 | 4.60 | 4.58 | 4.57 |
| MAX  | 4.69 | 4.58 | 4.58 | 4.76 | 4.48 | 4.76 | 4.66 | 4.45 | 4.79 | 4.76 | 4.66 | 4.78 |
| MIN  | 4.51 | 4.36 | 4.37 | 4.43 | 4.33 | 4.33 | 4.34 | 4.12 | 4.18 | 4.48 | 4.52 | 4.44 |

CAL YR 1985 MEAN 4.46 MAX 5.28 MIN 4.24  
WTR YR 1986 MEAN 4.50 MAX 4.79 MIN 4.12

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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262337080074800 E-3 CANAL AT 51ST STREET, BOCA RATON, FL

LOCATION.--Lat 26°23'37", long 80°07'48", in NE¼NW¼ sec.11, T.47 S., R.42 E., Palm Beach County, Hydrologic Unit 03090202, in 2.2 mi west of I-95, Yamato Rd. exit in Boca Raton.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1982 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 adjustment of 1972.

REMARKS.--Records good. Station is part of a canal system operated by Lake Worth Drainage District.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 12.82 ft May 4, 1982; minimum, 8.38 ft March 12, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 10.41 ft Mar. 10; minimum, 8.70 ft Jan. 13.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC   | JAN  | FEB  | MAR   | APR  | MAY  | JUN   | JUL  | AUG  | SEP  |
|------|------|------|-------|------|------|-------|------|------|-------|------|------|------|
| 1    | 9.87 | 9.77 | 9.66  | 9.61 | 9.51 | 9.59  | 9.94 | 9.50 | 9.61  | 9.80 | 9.47 | 9.50 |
| 2    | 9.91 | 9.70 | 9.64  | 9.63 | 9.50 | 9.59  | 9.92 | 9.47 | 9.65  | 9.88 | 9.47 | 9.48 |
| 3    | 9.81 | 9.63 | 9.57  | 9.70 | 9.48 | 9.59  | 9.91 | 9.45 | 9.65  | 9.86 | 9.46 | 9.46 |
| 4    | 9.90 | 9.61 | 9.55  | 9.71 | 9.45 | 9.60  | 9.92 | 9.41 | 9.64  | 9.84 | 9.59 | 9.45 |
| 5    | 9.76 | 9.54 | 10.01 | 9.68 | 9.42 | 9.63  | 9.89 | 9.44 | 9.62  | 9.88 | 9.72 | 9.45 |
| 6    | 9.79 | 9.50 | 9.98  | 9.64 | 9.38 | 9.65  | 9.83 | 9.55 | 9.62  | 9.94 | 9.73 | 9.56 |
| 7    | 9.75 | 9.48 | 9.92  | 9.72 | 9.33 | 9.64  | 9.79 | 9.57 | 9.66  | 9.96 | 9.71 | 9.94 |
| 8    | 9.71 | 9.48 | 9.56  | 9.75 | 9.32 | 9.62  | 9.78 | 9.54 | 9.74  | 9.87 | 9.64 | 9.95 |
| 9    | 9.70 | 9.52 | 9.58  | 9.70 | 9.33 | 9.61  | 9.79 | 9.48 | 9.67  | 9.78 | 9.56 | 9.82 |
| 10   | 9.71 | 9.52 | 9.75  | 9.96 | 9.33 | 9.91  | 9.78 | 9.45 | 9.56  | 9.80 | 9.50 | 9.74 |
| 11   | 9.68 | 9.65 | 9.75  | 9.34 | 9.29 | 10.08 | 9.74 | 9.42 | 9.44  | 9.75 | 9.56 | 9.65 |
| 12   | 9.63 | 9.69 | 9.78  | 8.88 | 9.26 | 9.86  | 9.71 | 9.40 | 9.55  | 9.72 | 9.72 | 9.57 |
| 13   | 9.57 | 9.63 | 9.87  | 8.84 | 9.28 | 9.85  | 9.72 | 9.35 | 9.88  | 9.77 | 9.76 | 9.49 |
| 14   | 9.50 | 9.60 | 9.83  | 9.48 | 9.33 | 9.86  | 9.69 | 9.31 | 9.81  | 9.88 | 9.75 | 9.42 |
| 15   | 9.52 | 9.55 | 9.80  | 9.75 | 9.38 | 9.86  | 9.65 | 9.29 | 9.78  | 9.87 | 9.77 | 9.39 |
| 16   | 9.60 | 9.49 | 9.78  | 9.78 | 9.47 | 9.94  | 9.61 | 9.31 | 9.83  | 9.83 | 9.84 | 9.46 |
| 17   | 9.65 | 9.43 | 9.79  | 9.81 | 9.52 | 9.89  | 9.56 | 9.31 | 9.81  | 9.78 | 9.88 | 9.47 |
| 18   | 9.64 | 9.36 | 9.78  | 9.84 | 9.56 | 9.83  | 9.51 | 9.30 | 9.79  | 9.73 | 9.93 | 9.46 |
| 19   | 9.63 | 9.47 | 9.76  | 9.82 | 9.52 | 9.84  | 9.54 | 9.29 | 9.85  | 9.71 | 9.94 | 9.45 |
| 20   | 9.89 | 9.47 | 9.79  | 9.82 | 9.46 | 9.83  | 9.66 | 9.29 | 9.91  | 9.71 | 9.94 | 9.48 |
| 21   | 9.79 | 9.47 | 9.81  | 9.79 | 9.40 | 9.87  | 9.70 | 9.49 | 10.03 | 9.69 | 9.97 | 9.60 |
| 22   | 9.76 | 9.47 | 9.83  | 9.84 | 9.33 | 9.80  | 9.70 | 9.68 | 9.97  | 9.65 | 9.89 | 9.59 |
| 23   | 9.78 | 9.58 | 9.83  | 9.85 | 9.28 | 9.72  | 9.67 | 9.55 | 9.96  | 9.61 | 9.80 | 9.61 |
| 24   | 9.76 | 9.66 | 9.86  | 9.83 | 9.24 | 9.70  | 9.66 | 9.46 | 9.84  | 9.60 | 9.72 | 9.64 |
| 25   | 9.71 | 9.68 | 9.85  | 9.71 | 9.33 | 9.69  | 9.65 | 9.57 | 9.77  | 9.58 | 9.65 | 9.61 |
| 26   | 9.69 | 9.70 | 9.82  | 9.34 | 9.45 | 9.85  | 9.65 | 9.59 | 9.83  | 9.61 | 9.64 | 9.58 |
| 27   | 9.63 | 9.71 | 9.81  | 9.17 | 9.54 | 10.15 | 9.63 | 9.57 | 9.82  | 9.59 | 9.63 | 9.54 |
| 28   | 9.57 | 9.71 | 9.88  | 9.35 | 9.57 | 10.80 | 9.60 | 9.51 | 9.84  | 9.55 | 9.61 | 9.50 |
| 29   | 9.81 | 9.70 | 9.95  | 9.45 | ---  | 9.91  | 9.57 | 9.45 | 9.84  | 9.54 | 9.61 | 9.44 |
| 30   | 9.87 | 9.68 | 9.44  | 9.49 | ---  | 9.93  | 9.53 | 9.47 | 9.83  | 9.56 | 9.56 | 9.39 |
| 31   | 9.84 | ---  | 9.59  | 9.50 | ---  | 9.88  | ---  | 9.58 | ---   | 9.51 | 9.54 | ---  |
| MEAN | 9.72 | 9.58 | 9.77  | 9.61 | 9.40 | 9.82  | 9.71 | 9.45 | 9.76  | 9.74 | 9.70 | 9.56 |
| MAX  | 9.91 | 9.77 | 10.01 | 9.96 | 9.57 | 10.80 | 9.94 | 9.68 | 10.03 | 9.96 | 9.97 | 9.95 |
| MIN  | 9.50 | 9.36 | 9.44  | 8.84 | 9.24 | 9.59  | 9.51 | 9.29 | 9.44  | 9.51 | 9.46 | 9.39 |

CAL YR 1985 MEAN 9.69 MAX 10.59 MIN 9.20  
WTR YR 1986 MEAN 9.65 MAX 10.80 MIN 8.84





## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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## 02281400 HILLSBORO CANAL NEAR MARGATE, FL

LOCATION.--Lat 26°19'48", long 80°12'45", in NW¼ sec.36, T.47 S., R.41 E., Broward County, Hydrologic Unit 03090202, on north side of Hillsboro Road, 0.7 mi west of U.S. Highway 441, and 5.1 mi north of Margate.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1975 to current year.

GAGE.--Water-stage and electromagnetic velocity meter recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Flow affected by regulation downstream at Deerfield Beach and upstream storage releases at control structure S-39. Negative figures indicate flow to the west.

AVERAGE DISCHARGE.--10 years (1977-86), 212 ft<sup>3</sup>/s, 153,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 956 ft<sup>3</sup>/s Mar. 11, 1986 (estimated); maximum gage height, 12.88 ft Apr. 25, 1979; maximum daily reverse flow, 247 ft<sup>3</sup>/s Apr. 25, 1979; minimum gage height, 4.15 ft May 20, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 956 ft<sup>3</sup>/s Mar. 11 (estimated); maximum gage height, 9.54 ft Dec. 5; minimum daily discharge, 26 ft<sup>3</sup>/s June 8; minimum gage height, 4.52 ft Sept. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT   | NOV  | DEC  | JAN   | FEB  | MAR   | APR  | MAY  | JUN   | JUL   | AUG   | SEP   |
|-------|-------|------|------|-------|------|-------|------|------|-------|-------|-------|-------|
| 1     | 474   | 95   | 99   | 140   | 128  | 129   | 394  | 105  | 74    | 758   | e719  | 178   |
| 2     | 420   | 99   | 134  | 244   | 116  | 164   | 255  | 119  | 49    | 726   | e719  | 195   |
| 3     | 802   | 121  | 113  | 171   | 117  | e209  | 387  | 124  | 36    | 688   | e723  | 310   |
| 4     | 583   | 222  | 127  | 154   | 145  | e321  | 349  | 121  | 31    | e740  | e731  | 333   |
| 5     | 276   | 143  | 348  | 114   | 202  | e430  | 170  | 85   | 39    | e772  | e732  | 438   |
| 6     | 167   | 77   | 477  | 156   | 114  | e436  | 170  | 43   | 34    | e770  | e728  | 582   |
| 7     | 131   | 51   | 231  | 146   | 85   | e433  | 135  | 87   | 31    | e793  | e708  | 598   |
| 8     | 158   | 138  | 149  | 255   | 137  | e418  | 167  | 105  | 26    | e791  | 670   | 547   |
| 9     | 220   | 196  | 210  | 325   | 133  | e423  | 116  | 103  | 38    | 774   | 759   | e589  |
| 10    | 316   | 164  | 176  | 515   | 118  | e831  | 118  | 105  | 49    | 765   | 449   | e592  |
| 11    | 241   | 110  | 163  | 338   | 126  | e956  | 98   | 113  | 55    | 767   | 233   | e594  |
| 12    | 202   | 63   | 129  | 249   | 130  | 642   | 96   | 111  | 53    | 790   | 307   | e471  |
| 13    | 135   | 184  | 103  | 345   | 183  | 457   | 84   | 110  | 231   | 801   | 284   | 127   |
| 14    | 183   | 137  | 124  | 167   | 183  | 184   | 107  | 110  | 204   | 829   | 251   | 116   |
| 15    | 112   | 147  | 93   | 169   | 171  | 233   | 93   | 109  | 240   | 794   | 169   | 200   |
| 16    | 143   | 108  | 95   | 138   | 164  | 368   | 99   | 104  | 293   | 582   | 289   | 158   |
| 17    | 193   | 96   | 134  | 222   | 153  | 237   | 104  | 111  | 243   | 536   | 250   | 141   |
| 18    | 126   | 311  | 127  | 295   | 381  | 212   | 147  | 110  | 202   | 509   | 562   | 138   |
| 19    | 207   | 300  | 142  | 288   | 234  | 371   | 139  | 105  | 177   | e398  | 768   | 145   |
| 20    | 605   | 332  | 72   | 214   | 130  | 378   | 114  | 92   | 336   | e 31  | 799   | 123   |
| 21    | 231   | 197  | 83   | 150   | 154  | 645   | 120  | 84   | 405   | e 26  | 860   | 146   |
| 22    | 172   | 134  | 83   | 113   | 153  | 821   | 134  | 95   | 442   | e 30  | 883   | 133   |
| 23    | 114   | 125  | 84   | 113   | 124  | 819   | 140  | 99   | 541   | e 58  | 866   | 213   |
| 24    | 328   | 131  | 72   | 100   | 94   | 535   | 132  | 84   | 571   | e462  | 825   | 255   |
| 25    | 280   | 141  | 113  | 132   | 121  | 425   | 119  | 84   | 600   | e748  | 823   | 170   |
| 26    | 140   | 113  | 111  | 115   | 162  | 529   | 104  | 74   | 692   | e738  | 800   | 127   |
| 27    | 171   | 111  | 127  | 157   | 118  | 821   | 98   | 60   | 715   | e744  | 692   | 123   |
| 28    | 232   | 117  | 98   | 259   | 116  | 843   | 104  | 65   | 621   | e741  | 561   | 120   |
| 29    | 300   | 80   | 124  | 169   | ---  | 679   | 113  | 84   | 537   | e737  | 241   | 118   |
| 30    | 163   | 64   | 123  | 126   | ---  | 499   | 109  | 97   | 694   | e727  | 225   | 162   |
| 31    | 87    | ---  | 104  | 95    | ---  | 286   | ---  | 75   | ---   | e723  | 229   | ---   |
| TOTAL | 7912  | 4307 | 4368 | 6174  | 4192 | 14734 | 4515 | 2973 | 8259  | 19348 | 17855 | 8142  |
| MEAN  | 255   | 144  | 141  | 199   | 150  | 475   | 151  | 95.9 | 275   | 624   | 576   | 271   |
| MAX   | 802   | 332  | 477  | 515   | 381  | 956   | 394  | 124  | 715   | 829   | 883   | 598   |
| MIN   | 87    | 51   | 72   | 95    | 85   | 129   | 84   | 43   | 26    | 26    | 169   | 116   |
| AC-FT | 15690 | 8540 | 8660 | 12250 | 8310 | 29220 | 8960 | 5900 | 16380 | 38380 | 35420 | 16150 |

CAL YR 1985 TOTAL 60148.60 MEAN 165 MAX 802 MIN .00 AC-FT 119300  
WTR YR 1986 TOTAL 102779.00 MEAN 282 MAX 956 MIN 26 AC-FT 203900

e Estimated

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02281400 HILLSBORO CANAL NEAR MARGATE, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1           | 7.93 | 7.82 | 7.77 | 7.60 | 7.76 | 7.15 | 7.86 | 6.64 | 6.94 | 7.50 | 6.79 | 7.95 |
| 2           | 8.20 | 7.56 | 7.67 | 7.93 | 7.67 | 7.01 | 7.85 | 6.70 | 7.17 | 7.63 | 6.80 | 7.98 |
| 3           | 7.94 | 7.40 | 7.63 | 7.91 | 7.61 | 7.40 | 8.11 | 6.83 | 7.59 | 7.49 | 6.83 | 7.91 |
| 4           | 7.95 | 7.77 | 7.69 | 7.92 | 7.39 | 7.17 | 8.06 | 6.71 | 7.32 | 7.13 | 6.87 | 6.33 |
| 5           | 7.31 | 7.83 | 8.43 | 7.94 | 7.52 | 7.29 | 7.97 | 6.99 | 7.20 | 7.28 | 6.89 | 5.28 |
| 6           | 7.64 | 7.82 | 7.98 | 7.85 | 7.55 | 7.40 | 7.93 | 7.74 | 7.11 | 7.26 | 6.84 | 6.80 |
| 7           | 7.80 | 7.77 | 7.95 | 7.72 | 7.87 | 7.35 | 7.95 | 7.67 | 6.99 | 7.48 | 6.79 | 6.88 |
| 8           | 7.88 | 7.67 | 7.88 | 8.10 | 7.56 | 7.08 | 7.92 | 6.99 | 6.97 | 7.38 | 6.72 | 6.31 |
| 9           | 7.90 | 7.19 | 7.89 | 8.09 | 7.22 | 7.17 | 7.87 | 6.79 | 7.21 | 7.28 | 6.65 | 6.93 |
| 10          | 7.89 | 6.93 | 7.90 | 7.85 | 7.21 | 8.15 | 7.86 | 6.77 | 7.03 | 7.19 | 6.56 | 6.97 |
| 11          | 7.88 | 7.19 | 7.91 | 8.10 | 7.13 | 7.67 | 7.59 | 6.81 | 6.91 | 7.19 | 7.46 | 7.00 |
| 12          | 7.90 | 7.67 | 7.87 | 8.01 | 7.08 | 6.75 | 7.48 | 6.84 | 7.31 | 7.08 | 7.98 | 6.27 |
| 13          | 7.92 | 7.88 | 7.96 | 8.07 | 7.56 | 6.53 | 7.53 | 6.90 | 7.92 | 7.08 | 7.94 | 6.19 |
| 14          | 7.90 | 7.90 | 7.92 | 7.90 | 7.62 | 7.58 | 7.97 | 6.77 | 7.95 | 7.17 | 7.95 | 6.29 |
| 15          | 7.90 | 7.75 | 7.84 | 7.96 | 7.61 | 7.39 | 7.79 | 6.82 | 7.96 | 7.05 | 7.96 | 5.13 |
| 16          | 7.93 | 7.61 | 7.75 | 7.93 | 7.71 | 7.20 | 7.44 | 6.81 | 8.06 | 7.06 | 7.78 | 5.49 |
| 17          | 7.91 | 7.61 | 7.94 | 7.99 | 7.30 | 7.38 | 7.05 | 6.80 | 8.00 | 6.96 | 7.60 | 5.96 |
| 18          | 7.92 | 6.82 | 7.91 | 7.96 | 7.47 | 7.46 | 6.69 | 6.84 | 7.93 | 6.77 | 7.03 | 6.88 |
| 19          | 7.92 | 7.13 | 7.74 | 7.92 | 6.90 | 8.00 | 6.65 | 6.78 | 7.95 | 6.66 | 6.72 | 7.15 |
| 20          | 7.71 | 7.94 | 7.57 | 7.85 | 7.18 | 8.10 | 6.85 | 6.71 | 7.83 | 7.33 | 6.85 | 7.07 |
| 21          | 7.93 | 7.82 | 7.70 | 7.86 | 7.18 | 7.80 | 6.80 | 7.38 | 7.55 | 7.66 | 7.27 | 7.91 |
| 22          | 7.87 | 7.75 | 7.39 | 7.95 | 7.30 | 7.04 | 6.71 | 7.60 | 7.98 | 7.56 | 7.15 | 7.98 |
| 23          | 7.93 | 7.43 | 7.18 | 7.94 | 7.32 | 6.97 | 6.77 | 7.95 | 7.79 | 7.95 | 7.06 | 8.04 |
| 24          | 7.88 | 7.38 | 7.87 | 8.01 | 7.43 | 7.33 | 6.73 | 7.93 | 7.00 | 7.43 | 6.88 | 8.01 |
| 25          | 7.88 | 7.32 | 7.76 | 7.98 | 7.19 | 8.11 | 6.80 | 7.95 | 6.95 | 7.05 | 6.85 | 7.91 |
| 26          | 7.85 | 7.79 | 7.33 | 7.92 | 7.40 | 8.30 | 6.78 | 7.78 | 7.36 | 6.94 | 6.78 | 7.74 |
| 27          | 7.88 | 7.71 | 7.43 | 7.59 | 6.96 | 9.07 | 6.75 | 7.33 | 7.36 | 7.01 | 6.72 | 7.57 |
| 28          | 7.87 | 7.70 | 7.62 | 7.53 | 7.14 | 7.67 | 6.66 | 6.96 | 7.35 | 6.98 | 7.22 | 7.38 |
| 29          | 7.87 | 7.68 | 7.93 | 7.63 | ---  | 6.94 | 6.59 | 7.01 | 7.09 | 6.93 | 8.04 | 7.11 |
| 30          | 7.84 | 7.91 | 7.88 | 7.85 | ---  | 6.65 | 6.80 | 7.06 | 7.24 | 6.83 | 7.99 | 6.94 |
| 31          | 7.87 | ---  | 7.73 | 7.75 | ---  | 7.99 | ---  | 6.96 | ---  | 6.79 | 8.00 | ---  |
| MEAN        | 7.87 | 7.59 | 7.77 | 7.89 | 7.39 | 7.45 | 7.33 | 7.09 | 7.43 | 7.20 | 7.19 | 6.98 |
| MAX         | 8.20 | 7.94 | 8.43 | 8.10 | 7.87 | 9.07 | 8.11 | 7.95 | 8.06 | 7.95 | 8.04 | 8.04 |
| MIN         | 7.31 | 6.82 | 7.18 | 7.53 | 6.90 | 6.53 | 6.59 | 6.64 | 6.91 | 6.66 | 6.56 | 5.13 |
|             |      |      |      |      |      |      |      |      |      |      |      |      |
| CAL YR 1985 | MEAN | 7.69 | MAX  | 9.66 | MIN  | 6.82 |      |      |      |      |      |      |
| WTR YR 1986 | MEAN | 7.43 | MAX  | 9.07 | MIN  | 5.13 |      |      |      |      |      |      |

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

141

## 02281500 HILLSBORO CANAL NEAR DEERFIELD BEACH, FL

LOCATION.--Lat 26°19'39", long 80°07'52", SW¼ sec.35, T.47 S., R.42 E., Broward County, Hydrologic Unit 03090202, at upstream end of lock chamber, 2 mi west of Deerfield Beach, and 4.4 mi east of State Highway 7.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1939 to current year. Records of gage heights prior to October 1961 are available in files of the Geological Survey.

REVISED RECORDS.--WDR FL-78-2A: 1974-1975.

GAGE.--Water-stage recorder, sharp crested weir, and gate-opening indicator. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Auxiliary water-stage recorder at downstream end of lock. See WSP 1905 volume 2 for history of changes.

REMARKS.--Records poor. Flow regulated at station for irrigation and drainage and by flood-control levee, 11 mi upstream of station. Lock chamber not used for navigation. Pumps upstream of station divert water for irrigation during growing season. Since September 1952, flow materially affected by control structure 39, 11 mi upstream. Discharge computed from relation between discharge, head, submergence, and gate openings.

COOPERATION.--Stoplog and sluice-gate operation records provided by South Florida Water Management District.

AVERAGE DISCHARGE.--46 years, 309 ft<sup>3</sup>/s, 223,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,880 ft<sup>3</sup>/s May 4, 1983; maximum gage height, 12.58 ft Dec. 24, 1957; no flow for several days in 1939, 1940, and 1959; minimum gage height, 0.77 ft Aug. 17, 1970.

EXTREMES FOR CURRINT YEAR.--Maximum daily discharge, 2,320 ft<sup>3</sup>/s, estimated, Oct. 3; maximum gage height, 8.19 ft Oct. 10; minimum daily discharge, 20 ft<sup>3</sup>/s, estimated leakage, many days during year; minimum gage height, 2.37 ft Mar. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT   | NOV  | DEC   | JAN   | FEB  | MAR   | APR  | MAY  | JUN   | JUL   | AUG   | SEP   |
|-------|-------|------|-------|-------|------|-------|------|------|-------|-------|-------|-------|
| 1     | e 773 | 111  | 20    | 215   | 110  | 20    | 986  | 20   | 20    | 1690  | 1330  | 481   |
| 2     | e1230 | 20   | 20    | 515   | 20   | 20    | 518  | 20   | 20    | 1690  | 1340  | 304   |
| 3     | e2320 | 20   | 20    | 292   | 20   | 20    | 672  | 20   | 20    | 1590  | 1360  | 233   |
| 4     | e1680 | 387  | 20    | e 148 | 20   | 20    | 446  | 20   | 20    | 1530  | 1410  | 918   |
| 5     | e1590 | 430  | 1430  | e 118 | 20   | 20    | 195  | 20   | 20    | 1580  | 1440  | 455   |
| 6     | e1200 | 105  | 1090  | e 209 | 20   | 20    | 190  | 20   | 20    | 1580  | 1360  | 593   |
| 7     | e 793 | 20   | 612   | e 117 | 20   | 20    | 107  | 20   | 20    | 1650  | 1340  | 605   |
| 8     | e 467 | 20   | 319   | e 988 | 20   | 20    | 196  | 20   | 20    | 1570  | 1300  | 1130  |
| 9     | e 390 | 20   | 528   | e1040 | 20   | 20    | 104  | 20   | 20    | 1480  | 1280  | 1320  |
| 10    | 315   | 20   | 480   | e1580 | 20   | 1190  | 107  | 20   | 20    | 1440  | 402   | 1340  |
| 11    | 201   | 20   | 329   | e1040 | 20   | 1630  | 20   | 20   | 20    | 1430  | 202   | 1300  |
| 12    | 217   | 20   | 210   | e 930 | 20   | 1130  | 20   | 20   | 20    | 1390  | 546   | 866   |
| 13    | 103   | 383  | 104   | e1040 | 20   | 664   | 20   | 20   | 639   | 1390  | 455   | 20    |
| 14    | 185   | 212  | 181   | e 230 | 20   | 571   | 106  | 20   | 504   | 1430  | 439   | 51    |
| 15    | 118   | 65   | 20    | 107   | 20   | 600   | 20   | 20   | 611   | 1380  | 212   | 331   |
| 16    | 111   | 20   | 49    | 103   | 20   | 1230  | 20   | 20   | 780   | 1370  | 660   | 203   |
| 17    | 197   | 20   | 304   | 462   | 20   | 476   | 20   | 20   | 659   | 1330  | 378   | 20    |
| 18    | 107   | 751  | 204   | 600   | 1140 | 409   | 20   | 20   | 508   | 1230  | 1170  | 20    |
| 19    | 358   | 1020 | 98    | 557   | 60   | 437   | 20   | 20   | 525   | 839   | 1460  | 20    |
| 20    | 1240  | 656  | 20    | 314   | 20   | 458   | 20   | 20   | 1050  | 20    | 1410  | 20    |
| 21    | 728   | 306  | 20    | 113   | 20   | 1500  | 20   | 250  | 859   | 20    | 1610  | 281   |
| 22    | 310   | 20   | 20    | 20    | 20   | 1250  | 20   | 306  | 1250  | 20    | 1550  | 313   |
| 23    | 238   | 20   | 20    | 20    | 20   | 1160  | 20   | 408  | 1550  | 105   | 1510  | 578   |
| 24    | 536   | 20   | 110   | 20    | 20   | 540   | 20   | 300  | 1590  | 1120  | 1400  | 671   |
| 25    | 467   | 20   | 188   | 20    | 20   | 570   | 20   | 206  | 1530  | 1530  | 1380  | 318   |
| 26    | 239   | 20   | 20    | 100   | 20   | 1610  | 20   | 103  | 1650  | 1490  | 1350  | 20    |
| 27    | 321   | 20   | 20    | 107   | 20   | 2110  | 20   | 20   | 1650  | 1500  | 1320  | 20    |
| 28    | 572   | 20   | 223   | 22    | 20   | 1430  | 20   | 20   | 1410  | 1470  | 845   | 20    |
| 29    | 756   | 20   | e578  | 114   | ---  | 1320  | 20   | 20   | 1360  | 1420  | 273   | 20    |
| 30    | 427   | 20   | 252   | 108   | ---  | 1050  | 20   | 20   | 1630  | 1350  | 189   | 20    |
| 31    | 206   | ---  | 20    | 20    | ---  | 627   | ---  | 20   | ---   | 1330  | 389   | ---   |
| TOTAL | 18395 | 4806 | 7529  | 11269 | 1810 | 22142 | 4007 | 2073 | 19995 | 38964 | 31310 | 12491 |
| MEAN  | 593   | 160  | 243   | 364   | 64.6 | 714   | 134  | 66.9 | 667   | 1257  | 1010  | 416   |
| MAX   | 2320  | 1020 | 1430  | 1580  | 1140 | 2110  | 986  | 408  | 1650  | 1690  | 1610  | 1340  |
| MIN   | 103   | 20   | 20    | 20    | 20   | 20    | 20   | 20   | 20    | 20    | 189   | 20    |
| AC-FT | 36490 | 9530 | 14930 | 22350 | 3590 | 43920 | 7950 | 4110 | 39660 | 77290 | 62100 | 24780 |

CAL YR 1985 TOTAL 77710 MEAN 213 MAX 2320 MIN 20 AC-FT 154100  
WTR YR 1986 TOTAL 174791 MEAN 479 MAX 2320 MIN 20 AC-FT 346700

e Estimated

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02281500 HILLSBORO CANAL NEAR DEERFIELD BEACH, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 7.57 | 7.81 | 7.78 | 7.45 | 7.67 | 7.12 | 6.88 | 6.55 | 6.86 | 4.09 | 2.98 | 7.65 |
| 2    | 7.46 | 7.55 | 7.67 | 7.63 | 7.63 | 6.94 | 7.47 | 6.61 | 7.12 | 4.01 | 2.97 | 7.79 |
| 3    | 4.93 | 7.40 | 7.64 | 7.78 | 7.56 | 7.35 | 7.59 | 6.75 | 7.55 | 3.68 | 2.94 | 7.76 |
| 4    | 6.11 | 7.59 | 7.68 | 7.84 | 7.33 | 7.13 | 7.67 | 6.61 | 7.28 | 3.83 | 3.03 | 5.35 |
| 5    | 4.99 | 7.67 | 6.83 | 7.88 | 7.43 | 7.22 | 7.82 | 6.92 | 7.16 | 3.88 | 3.16 | 4.79 |
| 6    | 6.99 | 7.80 | 6.61 | 7.73 | 7.49 | 7.35 | 7.79 | 7.70 | 7.08 | 3.85 | 3.01 | 6.34 |
| 7    | 7.49 | 7.80 | 7.64 | 7.63 | 7.85 | 7.33 | 7.86 | 7.63 | 6.96 | 4.10 | 2.96 | 6.46 |
| 8    | 7.71 | 7.66 | 7.73 | 7.61 | 7.52 | 7.03 | 7.78 | 6.93 | 6.93 | 3.85 | 2.88 | 4.48 |
| 9    | 7.73 | 7.16 | 7.62 | 7.51 | 7.17 | 7.10 | 7.81 | 6.72 | 7.17 | 3.49 | 2.78 | 4.52 |
| 10   | 7.73 | 6.94 | 7.68 | 6.47 | 7.18 | 6.77 | 7.78 | 6.68 | 6.98 | 3.37 | 5.08 | 4.54 |
| 11   | 7.78 | 7.22 | 7.73 | 7.53 | 7.10 | 4.05 | 7.55 | 6.72 | 6.84 | 3.34 | 7.22 | 4.25 |
| 12   | 7.81 | 7.69 | 7.74 | 7.55 | 7.03 | 2.66 | 7.44 | 6.76 | 7.25 | 3.23 | 7.64 | 4.00 |
| 13   | 7.88 | 7.70 | 7.88 | 7.52 | 7.49 | 3.96 | 7.50 | 6.82 | 7.51 | 3.16 | 7.65 | 6.07 |
| 14   | 7.83 | 7.80 | 7.81 | 7.79 | 7.53 | 7.08 | 7.89 | 6.68 | 7.65 | 3.21 | 7.68 | 6.17 |
| 15   | 7.86 | 7.72 | 7.80 | 7.88 | 7.54 | 6.97 | 7.75 | 6.72 | 7.58 | 3.08 | 7.79 | 4.66 |
| 16   | 7.89 | 7.61 | 7.71 | 7.84 | 7.63 | 6.01 | 7.40 | 6.72 | 7.53 | 3.09 | 7.27 | 5.12 |
| 17   | 7.82 | 7.60 | 7.78 | 7.71 | 7.24 | 7.15 | 7.00 | 6.70 | 7.57 | 3.04 | 7.25 | 5.81 |
| 18   | 7.89 | 5.47 | 7.79 | 7.60 | 5.72 | 7.26 | 6.62 | 6.76 | 7.63 | 2.91 | 5.77 | 6.76 |
| 19   | 7.76 | 5.68 | 7.64 | 7.60 | 6.52 | 7.61 | 6.56 | 6.70 | 7.64 | 3.73 | 3.64 | 7.05 |
| 20   | 6.23 | 7.54 | 7.53 | 7.67 | 7.14 | 7.69 | 6.78 | 6.64 | 6.96 | 7.28 | 3.32 | 6.99 |
| 21   | 7.57 | 7.68 | 7.66 | 7.76 | 7.12 | 5.49 | 6.73 | 7.24 | 6.05 | 7.61 | 3.92 | 7.72 |
| 22   | 7.74 | 7.75 | 7.34 | 7.92 | 7.26 | 3.01 | 6.65 | 7.33 | 6.73 | 7.50 | 3.62 | 7.79 |
| 23   | 7.84 | 7.43 | 7.13 | 7.91 | 7.29 | 3.00 | 6.69 | 7.70 | 5.78 | 7.87 | 3.44 | 7.67 |
| 24   | 7.63 | 7.37 | 7.81 | 7.98 | 7.40 | 5.65 | 6.65 | 7.75 | 3.93 | 5.43 | 3.16 | 7.59 |
| 25   | 7.68 | 7.30 | 7.66 | 7.95 | 7.16 | 7.60 | 6.72 | 7.82 | 3.74 | 3.63 | 3.17 | 7.68 |
| 26   | 7.77 | 7.79 | 7.28 | 7.86 | 7.34 | 6.24 | 6.70 | 7.66 | 4.26 | 3.44 | 3.09 | 7.65 |
| 27   | 7.76 | 7.72 | 7.35 | 7.53 | 6.92 | 5.48 | 6.68 | 7.24 | 4.12 | 3.45 | 2.99 | 7.48 |
| 28   | 7.42 | 7.70 | 7.48 | 7.43 | 7.11 | 3.91 | 6.58 | 6.87 | 4.88 | 3.37 | 5.03 | 7.29 |
| 29   | 7.41 | 7.69 | 7.70 | 7.53 | ---  | 3.42 | 6.50 | 6.91 | 5.10 | 3.28 | 7.79 | 7.02 |
| 30   | 7.68 | 7.93 | 7.74 | 7.77 | ---  | 4.55 | 6.70 | 6.96 | 3.90 | 3.04 | 7.76 | 6.82 |
| 31   | 7.81 | ---  | 7.69 | 7.71 | ---  | 7.59 | ---  | 6.88 | ---  | 2.95 | 7.72 | ---  |
| MEAN | 7.41 | 7.46 | 7.58 | 7.66 | 7.26 | 6.06 | 7.18 | 6.99 | 6.46 | 4.06 | 4.80 | 6.38 |
| MAX  | 7.89 | 7.93 | 7.88 | 7.98 | 7.85 | 7.69 | 7.89 | 7.82 | 7.65 | 7.87 | 7.79 | 7.79 |
| MIN  | 4.93 | 5.47 | 6.61 | 6.47 | 5.72 | 2.66 | 6.50 | 6.55 | 3.74 | 2.91 | 2.78 | 4.00 |

|             |           |          |          |
|-------------|-----------|----------|----------|
| CAL YR 1985 | MEAN 7.35 | MAX 7.98 | MIN 2.81 |
| WTR YR 1986 | MEAN 6.60 | MAX 7.98 | MIN 2.66 |

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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## 02281501 HILLSBORO CANAL BELOW DEERFIELD LOCKS, NEAR DEERFIELD BEACH, FL

LOCATION.--Lat 26°19'39", long 80°07'51", in SW¼ sec.35, T.47 S., R.42 E., Broward County, Hydrologic Unit 03090202, at downstream end of lock chamber, 2 mi west of Deerfield Beach, and 4.4 mi east of State Highway 7.

DRAINAGE.--Indeterminate.

PERIOD OF RECORD.--July 1947 to December 1949 (incomplete), January 1950 to January 1958, December 1959 to current year (gage heights). Records of gage heights prior to October 1962 are available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Prior to June 23, 1950, at site 500 ft downstream at same datum.

REMARKS.--Gage records water levels below lock and control structure. Stage is basically tidal, but is occasionally affected by control structure operation.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 11.70 ft, estimated, Oct 12, 1947; minimum, -1.78 ft Apr. 6, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.93 ft Oct. 2; minimum, -1.47 ft Sept. 19.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT    | NOV  | DEC  | JAN   | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|--------|------|------|-------|------|------|------|------|------|------|------|------|
| 1    | e .08  | 1.61 | .54  | .58   | .39  | .64  | 1.45 | .87  | 1.19 | 1.92 | 1.52 | 1.31 |
| 2    | e .44  | 1.28 | .45  | .81   | .19  | .41  | 1.17 | .87  | 1.05 | 1.92 | 1.49 | 1.45 |
| 3    | e 1.22 | 1.20 | .52  | .64   | .27  | .37  | 1.21 | .90  | 1.07 | 1.91 | 1.41 | 1.41 |
| 4    | e .28  | 1.24 | .72  | e .65 | .30  | .37  | .96  | 1.08 | 1.00 | 1.78 | 1.41 | 1.83 |
| 5    | e -.36 | 1.15 | 2.16 | e .50 | .26  | .37  | .80  | 1.18 | 1.03 | 1.84 | 1.51 | 1.64 |
| 6    | e -.99 | 1.05 | 1.73 | e .50 | .25  | .32  | .70  | 1.06 | 1.05 | 1.82 | 1.50 | 1.76 |
| 7    | e-1.09 | .97  | 1.35 | e .50 | .23  | .34  | .75  | .90  | .88  | 1.90 | 1.48 | 1.70 |
| 8    | e-1.13 | .99  | 1.26 | e .50 | .29  | .26  | .86  | .96  | .77  | 1.95 | 1.45 | 1.94 |
| 9    | e .10  | 1.09 | 1.41 | e1.04 | .20  | .30  | 1.03 | .97  | .62  | 1.90 | 1.37 | 2.07 |
| 10   | 1.59   | 1.12 | 1.21 | e1.08 | .31  | 1.63 | 1.11 | 1.03 | .66  | 1.82 | .74  | 2.00 |
| 11   | 1.49   | .99  | 1.09 | e .75 | .30  | 2.37 | 1.01 | 1.12 | .66  | 1.80 | .61  | 1.87 |
| 12   | 1.48   | .88  | .96  | e .75 | .24  | 1.51 | .93  | 1.09 | .67  | 1.74 | 1.00 | 1.49 |
| 13   | 1.43   | 1.11 | .75  | e .75 | .17  | .93  | 1.01 | 1.17 | .92  | 1.66 | .90  | 1.08 |
| 14   | 1.42   | .92  | .68  | e .78 | .44  | .87  | .95  | 1.27 | .85  | 1.63 | .90  | 1.12 |
| 15   | 1.39   | .72  | .70  | .77   | .47  | .59  | .86  | 1.37 | 1.01 | 1.58 | .75  | 1.30 |
| 16   | 1.42   | .59  | .66  | .78   | .62  | 1.27 | .71  | 1.33 | 1.14 | 1.59 | 1.05 | 1.24 |
| 17   | 1.36   | .56  | .86  | 1.04  | .56  | .55  | .72  | 1.35 | 1.24 | 1.61 | 1.14 | .71  |
| 18   | 1.33   | 1.25 | .85  | 1.08  | 1.41 | .43  | .66  | 1.45 | 1.32 | 1.64 | 1.74 | .08  |
| 19   | 1.42   | 1.92 | .88  | 1.06  | .62  | .55  | .78  | 1.40 | 1.43 | 1.41 | 1.90 | -.01 |
| 20   | 2.17   | 1.53 | .74  | .68   | .70  | .66  | 1.01 | 1.31 | 1.69 | .76  | 1.71 | .07  |
| 21   | 1.84   | 1.08 | .60  | .42   | .72  | 1.84 | 1.25 | 1.29 | 1.91 | .83  | 1.84 | .26  |
| 22   | 1.60   | .83  | .62  | .33   | .71  | 1.74 | 1.20 | 1.32 | 1.99 | .67  | 1.69 | .36  |
| 23   | 1.56   | .85  | .67  | .39   | .96  | 1.90 | 1.04 | 1.24 | 2.16 | .67  | 1.62 | .52  |
| 24   | 1.68   | .79  | .91  | .59   | 1.07 | 1.51 | 1.01 | 1.00 | 2.09 | 1.38 | 1.57 | .52  |
| 25   | 1.72   | .84  | .70  | .75   | .94  | 1.51 | 1.09 | .86  | 2.01 | 1.79 | 1.63 | .15  |
| 26   | 1.78   | .84  | .31  | 1.04  | 1.11 | 2.41 | 1.02 | .90  | 2.09 | 1.69 | 1.61 | -.21 |
| 27   | 1.87   | .77  | .33  | .97   | 1.03 | 3.38 | .89  | .95  | 2.05 | 1.69 | 1.56 | -.36 |
| 28   | 1.88   | .71  | .54  | .53   | .97  | 2.55 | .82  | .93  | 1.88 | 1.67 | 1.27 | -.36 |
| 29   | 1.90   | .58  | .80  | .56   | ---  | 2.13 | .86  | .96  | 1.80 | 1.66 | 1.14 | -.26 |
| 30   | 1.81   | .51  | .61  | .59   | ---  | 1.63 | .88  | 1.09 | 1.89 | 1.56 | 1.15 | -.15 |
| 31   | 1.64   | ---  | .48  | .31   | ---  | 1.19 | ---  | 1.15 | ---  | 1.48 | 1.24 | ---  |
| MEAN | 1.11   | 1.00 | .84  | .70   | .56  | 1.18 | .96  | 1.11 | 1.34 | 1.59 | 1.35 | .88  |
| MAX  | 2.17   | 1.92 | 2.16 | 1.08  | 1.41 | 3.38 | 1.45 | 1.45 | 2.16 | 1.95 | 1.90 | 2.07 |
| MIN  | -1.13  | .51  | .31  | .31   | .17  | .26  | .66  | .86  | .62  | .67  | .61  | -.36 |

CAL YR 1985 MEAN .97 MAX 4.16 MIN -1.13  
WTR YR 1986 MEAN 1.06 MAX 3.38 MIN -1.13

e Estimated



## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02282700 MIDDLE RIVER CANAL AT S-36, NEAR FORT LAUDERDALE, FL

LOCATION.--Lat 26°10'22", long 80°10'47", in NW¼ sec.20, T.49 S., R.42 E., Broward County, Hydrologic Unit 03090202, 20 ft from south bank, 120 ft upstream from salinity-control structure 36, 1.5 mi east of bridge on U.S. Highway 441, and 5 mi west of Fort Lauderdale.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1955 to September 1961 (gage heights), October 1961 to current year. Records of gage heights prior to October 1961 are available in files of the Geological Survey.

GAGE.--Water-stage recorder and gate-opening recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Electromagnetic velocity meter and deflection vane recorder at same site prior to Oct. 1, 1985.

REMARKS.--Records fair, except those for estimated daily discharges, which are poor. Flow is at times affected by tide and occasionally reversed. Flow is regulated by operation of salinity-control structure 36. Discharge computed from the relationship of gate opening versus head difference.

COOPERATION.--Gage height and S-36 gate-operation records provided by South Florida Water Management District.

AVERAGE DISCHARGE.--25 years, 62.6 ft<sup>3</sup>/s, 45,350 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,490 ft<sup>3</sup>/s Apr. 25, 1979; maximum gage height, 7.38 ft Dec. 27, 1958; maximum reverse flow, 61 ft<sup>3</sup>/s Oct. 8, 1963; no flow for many days each year; minimum gage height, -0.53 ft June 28, 1958.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,110 ft<sup>3</sup>/s Mar. 27; maximum gage height, 5.32 ft Mar. 27; no flow for many days; minimum gage height, 1.98 ft Nov. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT  | NOV     | DEC     | JAN     | FEB    | MAR     | APR     | MAY     | JUN     | JUL     | AUG  | SEP     |
|-------|------|---------|---------|---------|--------|---------|---------|---------|---------|---------|------|---------|
| 1     | 140  | 163     | .00     | 146     | .00    | .00     | 145     | .00     | 147     | e216    | 160  | e100    |
| 2     | 225  | .00     | 141     | .00     | .00    | .00     | 124     | .00     | .00     | e378    | 152  | e100    |
| 3     | 231  | 139     | 27      | .00     | .00    | .00     | 113     | .00     | .00     | 273     | 100  | e100    |
| 4     | 282  | 23      | 37      | 140     | .00    | .00     | 117     | .00     | .00     | 219     | 243  | e100    |
| 5     | 278  | 121     | 291     | .00     | .00    | .00     | 104     | .00     | .00     | 224     | 88   | e100    |
| 6     | 204  | .00     | 161     | .00     | .00    | .00     | 99      | .00     | .00     | 221     | 150  | e100    |
| 7     | 185  | 112     | 3.5     | 109     | .00    | .00     | 103     | .00     | .00     | 222     | 159  | e100    |
| 8     | 143  | 115     | 138     | .00     | .00    | .00     | 41      | .00     | 103     | 160     | 53   | e100    |
| 9     | 127  | .00     | 111     | 207     | .00    | .00     | 58      | .00     | .00     | 121     | 109  | e100    |
| 10    | 113  | 112     | 9.2     | 289     | .00    | .00     | 101     | 103     | .00     | 176     | 159  | e100    |
| 11    | 112  | 80      | 118     | 288     | .00    | .00     | .00     | .00     | .00     | 161     | 207  | e100    |
| 12    | 120  | 49      | 61      | 84      | .00    | .00     | .00     | .00     | 108     | .00     | 107  | e100    |
| 13    | 61   | 182     | 52      | 213     | .00    | 1.3     | 158     | .00     | 275     | 122     | e100 | e100    |
| 14    | 182  | 8.1     | 117     | 59      | .00    | .00     | .00     | .00     | 95      | 143     | e100 | e100    |
| 15    | 53   | .00     | .00     | 90      | .00    | .00     | .00     | .00     | 271     | 147     | e100 | e100    |
| 16    | 82   | 101     | 52      | 97      | .00    | .00     | 113     | .00     | 314     | 6.9     | e100 | 45      |
| 17    | 109  | 36      | 116     | 69      | .00    | .00     | .00     | .00     | 197     | 120     | e100 | 54      |
| 18    | 143  | 347     | .00     | 23      | e327   | .00     | .00     | .00     | 108     | 160     | e100 | 141     |
| 19    | 170  | 146     | 144     | 135     | .00    | .00     | .00     | .00     | 101     | .00     | e100 | .00     |
| 20    | 224  | .00     | .00     | .00     | .00    | .00     | .00     | 6.4     | 273     | 117     | e100 | 136     |
| 21    | 75   | 47      | .00     | 43      | .00    | 181     | 123     | 130     | 206     | 153     | e100 | .00     |
| 22    | 133  | 184     | 137     | 87      | .00    | 124     | .00     | 351     | 199     | 15      | e100 | 157     |
| 23    | 164  | .00     | .00     | .00     | .00    | .00     | .00     | 220     | 172     | 219     | e100 | .00     |
| 24    | 118  | 109     | .00     | 67      | .00    | .00     | .00     | 55      | 165     | 192     | e100 | 94      |
| 25    | 135  | 22      | 96      | 27      | .00    | .00     | 83      | 138     | e165    | 290     | e100 | .00     |
| 26    | 116  | .00     | .00     | 110     | .00    | 245     | .00     | .00     | e107    | 52      | e100 | 96      |
| 27    | 153  | 142     | .00     | 31      | .00    | 1110    | .00     | .00     | e196    | 131     | e100 | .00     |
| 28    | 26   | .00     | 124     | .00     | .00    | 667     | .00     | .00     | e 69    | 136     | e100 | 110     |
| 29    | 163  | 53      | 4.3     | .00     | ---    | 317     | .00     | .00     | e156    | 138     | e100 | 109     |
| 30    | 44   | 58      | 97      | .00     | ---    | 297     | .00     | .00     | e233    | 116     | e100 | 36      |
| 31    | 79   | ---     | .00     | .00     | ---    | 134     | ---     | .00     | ---     | 113     | e100 | ---     |
| TOTAL | 4390 | 2349.10 | 2037.00 | 2314.00 | 327.00 | 3076.30 | 1482.00 | 1003.40 | 3660.00 | 4741.90 | 3587 | 2478.00 |
| MEAN  | 142  | 78.3    | 65.7    | 74.6    | 11.7   | 99.2    | 49.4    | 32.4    | 122     | 153     | 116  | 82.6    |
| MAX   | 282  | 347     | 291     | 289     | 327    | 1110    | 158     | 351     | 314     | 378     | 243  | 157     |
| MIN   | 26   | .00     | .00     | .00     | .00    | .00     | .00     | .00     | .00     | .00     | 53   | .00     |
| AC-FT | 8710 | 4660    | 4040    | 4590    | 649    | 6100    | 2940    | 1990    | 7260    | 9410    | 7110 | 4920    |

CAL YR 1985 TOTAL 25688.30 MEAN 70.4 MAX 1110 MIN .00 AC-FT 50950  
WTR YR 1986 TOTAL 31445.70 MEAN 86.2 MAX 1110 MIN .00 AC-FT 62370

e Estimated

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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02282700 MIDDLE RIVER CANAL AT S-36, NEAR FORT LAUDERDALE, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN   | JUL   | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|-------|-------|------|------|
| 1    | 4.32 | 4.23 | 4.56 | 4.29 | 4.69 | 4.82 | 4.16 | 4.41 | 4.29  | e4.30 | 4.26 | 4.23 |
| 2    | 4.26 | 4.40 | 4.25 | 4.39 | 4.74 | 4.78 | 4.34 | 4.39 | 4.37  | e4.07 | 4.30 | 4.32 |
| 3    | 4.11 | 4.29 | 4.32 | 4.58 | 4.76 | 4.74 | 4.36 | 4.39 | 4.52  | 3.92  | 4.31 | 4.29 |
| 4    | 4.23 | 4.48 | 4.49 | 4.29 | 4.77 | 4.71 | 4.32 | 4.36 | 4.53  | 3.98  | 4.20 | 4.39 |
| 5    | 4.13 | 4.16 | 4.11 | 4.34 | 4.79 | 4.69 | 4.38 | 4.37 | 4.55  | 4.16  | 4.33 | 4.29 |
| 6    | 4.18 | 4.54 | 4.30 | 4.52 | 4.80 | 4.67 | 4.38 | 4.39 | 4.54  | 4.05  | 4.34 | 4.27 |
| 7    | 4.19 | 4.28 | 4.39 | 4.47 | 4.80 | 4.63 | 4.37 | 4.39 | 4.52  | 4.01  | 4.04 | 4.19 |
| 8    | 4.33 | 4.43 | 4.24 | 4.43 | 4.81 | 4.56 | 4.53 | 4.38 | 4.35  | 3.94  | 4.50 | 4.38 |
| 9    | 4.33 | 4.44 | 4.45 | 4.23 | 4.82 | 4.51 | 4.39 | 4.40 | 4.46  | 4.36  | 4.20 | 4.50 |
| 10   | 4.37 | 4.39 | 4.40 | 4.42 | 4.81 | 4.67 | 4.36 | 4.26 | 4.51  | 4.14  | 4.23 | 4.23 |
| 11   | 4.35 | 4.49 | 4.31 | 4.14 | 4.82 | 4.95 | 4.45 | 4.37 | 4.51  | 3.94  | 4.29 | 4.35 |
| 12   | 4.38 | 4.42 | 4.50 | 4.25 | 4.80 | 4.92 | 4.59 | 4.42 | 4.47  | 4.46  | 4.24 | 4.29 |
| 13   | 4.35 | 4.15 | 4.34 | 4.11 | 4.76 | 4.88 | 4.17 | 4.43 | 4.08  | 4.38  | 4.73 | 4.49 |
| 14   | 4.10 | 4.20 | 4.31 | 4.53 | 4.73 | 4.93 | 4.47 | 4.44 | 4.43  | 4.19  | 4.38 | 4.51 |
| 15   | 4.49 | 4.53 | 4.45 | 4.23 | 4.75 | 5.01 | 4.62 | 4.43 | 4.20  | 4.37  | 4.26 | 4.14 |
| 16   | 4.25 | 4.29 | 4.57 | 4.46 | 4.70 | 5.14 | 4.27 | 4.43 | 4.10  | 4.36  | 4.07 | 4.51 |
| 17   | 4.39 | 4.54 | 4.17 | 4.16 | 4.72 | 5.16 | 4.51 | 4.41 | 4.23  | 4.47  | 4.10 | 4.42 |
| 18   | 4.36 | 3.53 | 4.53 | 4.54 | 4.80 | 5.13 | 4.56 | 4.38 | 4.37  | 3.98  | 4.22 | 4.17 |
| 19   | 4.28 | 3.16 | 4.28 | 4.12 | 4.92 | 5.13 | 4.60 | 4.35 | 4.41  | 4.43  | 4.11 | 4.49 |
| 20   | 4.18 | 4.30 | 4.33 | 4.49 | 4.94 | 5.13 | 4.64 | 4.32 | 4.27  | 4.39  | 4.30 | 4.29 |
| 21   | 4.20 | 4.50 | 4.55 | 4.58 | 4.92 | 4.96 | 4.22 | 4.38 | 4.11  | 4.33  | 4.02 | 4.49 |
| 22   | 4.33 | 4.27 | 4.31 | 4.16 | 4.91 | 4.49 | 4.43 | 4.13 | 4.28  | 4.34  | 4.35 | 4.20 |
| 23   | 4.27 | 4.35 | 4.30 | 4.51 | 4.92 | 4.79 | 4.49 | 4.10 | 4.29  | 4.27  | 4.23 | 4.47 |
| 24   | 4.37 | 4.46 | 4.52 | 4.56 | 4.91 | 4.88 | 4.52 | 4.50 | 4.32  | 4.22  | 4.27 | 4.44 |
| 25   | 4.30 | 4.29 | 4.37 | 4.35 | 4.88 | 4.90 | 4.27 | 4.03 | e4.35 | 3.95  | 4.37 | 4.52 |
| 26   | 4.35 | 4.57 | 4.48 | 4.38 | 4.82 | 5.12 | 4.29 | 4.43 | e4.39 | 4.26  | 4.30 | 4.34 |
| 27   | 4.31 | 4.18 | 4.60 | 4.23 | 4.82 | 4.38 | 4.39 | 4.56 | e4.52 | 4.33  | 4.36 | 4.57 |
| 28   | 4.35 | 4.42 | 4.37 | 4.46 | 4.80 | 3.30 | 4.42 | 4.62 | e4.23 | 4.32  | 4.32 | 4.30 |
| 29   | 4.17 | 4.56 | 4.56 | 4.55 | ---  | 4.13 | 4.42 | 4.64 | e4.40 | 4.27  | 4.29 | 4.38 |
| 30   | 4.49 | 4.28 | 4.29 | 4.61 | ---  | 4.07 | 4.42 | 4.64 | e4.12 | 4.37  | 4.18 | 4.29 |
| 31   | 4.34 | ---  | 4.57 | 4.65 | ---  | 4.28 | ---  | 4.63 | ---   | 4.36  | 4.37 | ---  |
| MEAN | 4.29 | 4.30 | 4.39 | 4.39 | 4.81 | 4.72 | 4.41 | 4.40 | 4.36  | 4.22  | 4.27 | 4.36 |
| MAX  | 4.49 | 4.57 | 4.60 | 4.65 | 4.94 | 5.16 | 4.64 | 4.64 | 4.55  | 4.47  | 4.73 | 4.57 |
| MIN  | 4.10 | 3.16 | 4.11 | 4.11 | 4.69 | 3.30 | 4.16 | 4.03 | 4.08  | 3.92  | 4.02 | 4.14 |

CAL YR 1985 MEAN 4.45 MAX 5.25 MIN 2.72  
WTR YR 1986 MEAN 4.41 MAX 5.16 MIN 3.16

e Estimated

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02283200 PLANTATION ROAD CANAL AT S-33, NEAR FORT LAUDERDALE, FL

LOCATION.--Lat 26°08'05", long 80°11'42", in SW¼ sec.31, T.49 S., R.42 E., Broward County, Hydrologic Unit 03090202, 15 ft streamward from left bank, 130 ft upstream from salinity-control structure 33, 0.5 mi east of bridge on U.S. Highway 441, 3 mi above mouth, and 4 mi west of Fort Lauderdale.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1955 to February 1962 (gage heights), March 1982 to current year. Records of gage heights prior to October 1961 are available in files of the Geological Survey.

GAGE.--Water-stage recorder, and gate-opening recorder. Datum of gage is National Geodetic Vertical Datum of 1929. (U.S. Army Corps of Engineers bench mark).

REMARKS.--Records poor. Flow is at times affected by tide and is occasionally reversed. Flow is regulated by operation of salinity-control structure 33.

COOPERATION.--Gage readings were provided by South Florida Water Management District.

AVERAGE DISCHARGE.--24 years, 20.1 ft<sup>3</sup>/s 14,560 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 614 ft<sup>3</sup>/s Apr. 25, 1979; maximum gage height, 6.16 ft Apr. 25, 1979; maximum reverse flow, 157 ft<sup>3</sup>/s Sept. 8, 1956; no flow on some days each year; minimum gage height, -0.82 ft Mar. 4, 1958.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 393 ft<sup>3</sup>/s Mar. 27; maximum gage height, 4.84 ft Mar. 26; no flow for many days; minimum gage height, 1.80 ft Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT    | NOV   | DEC   | JAN    | FEB  | MAR    | APR    | MAY   | JUN    | JUL    | AUG    | SEP   |
|-------|--------|-------|-------|--------|------|--------|--------|-------|--------|--------|--------|-------|
| 1     | 14     | .00   | .00   | .00    | .00  | .00    | 36     | .00   | .00    | e42    | .00    | .00   |
| 2     | 51     | .00   | .00   | .00    | .00  | .00    | 27     | .00   | .00    | e42    | 9.4    | .00   |
| 3     | 72     | .00   | .00   | .00    | .00  | .00    | 19     | .00   | .00    | 40     | 6.8    | .00   |
| 4     | 38     | 7.6   | .00   | .00    | .00  | .00    | 22     | .00   | .00    | 40     | 17     | .00   |
| 5     | 21     | .00   | 23    | .00    | .00  | .00    | 9.0    | .00   | .00    | 39     | 15     | 12    |
| 6     | 30     | .00   | 14    | .00    | .00  | .00    | 17     | .00   | .00    | 31     | 14     | 6.4   |
| 7     | 29     | .00   | .00   | .00    | .00  | .00    | .00    | .00   | .00    | 33     | 6.4    | 9.6   |
| 8     | 23     | .00   | 11    | 6.1    | .00  | .00    | 14     | .00   | .00    | 16     | .00    | 15    |
| 9     | .00    | .00   | .00   | 38     | .00  | .00    | .00    | .00   | .00    | 20     | .00    | 7.6   |
| 10    | .00    | .00   | .00   | 48     | .00  | .00    | 8.8    | .00   | .00    | 14     | .00    | 1.1   |
| 11    | .00    | .00   | .00   | 40     | .00  | .00    | .00    | .00   | .00    | 16     | 14     | .00   |
| 12    | .00    | .00   | 13    | 36     | .00  | .00    | .00    | .00   | 13     | 9.1    | 16     | 18    |
| 13    | .00    | .00   | .00   | 27     | .00  | .00    | .00    | .00   | 14     | 9.0    | .30    | .00   |
| 14    | .00    | .00   | .00   | 21     | .00  | 8.4    | .00    | .00   | 9.4    | 9.3    | 8.1    | .00   |
| 15    | .00    | .00   | .00   | 9.1    | .00  | 16     | .00    | .00   | 27     | .00    | 25     | .00   |
| 16    | .00    | .00   | .00   | 16     | .00  | 23     | .00    | .00   | 28     | .00    | 43     | .00   |
| 17    | .00    | .00   | .00   | 8.5    | .00  | 15     | .00    | .00   | 19     | .00    | 45     | .00   |
| 18    | 10     | .00   | .00   | 8.7    | .00  | 7.1    | .00    | .00   | 19     | .00    | 45     | .00   |
| 19    | .00    | 27    | .00   | .00    | .00  | 7.6    | .00    | .00   | 34     | 7.5    | 37     | .00   |
| 20    | 20     | .00   | .00   | 9.0    | .00  | .00    | .00    | .00   | 82     | .00    | 24     | .00   |
| 21    | 9.3    | .00   | .00   | .00    | 6.3  | 35     | .00    | 18    | e99    | 8.4    | 16     | .00   |
| 22    | 11     | .00   | .00   | .00    | .00  | .00    | .00    | 24    | e36    | 4.0    | 15     | .00   |
| 23    | 23     | .00   | .00   | .00    | .00  | 6.9    | .00    | 11    | e32    | .00    | 7.3    | .00   |
| 24    | 19     | .00   | .00   | 7.4    | .00  | .00    | .00    | 8.2   | e31    | .00    | 8.5    | .00   |
| 25    | 8.9    | 11    | .00   | .00    | .00  | 6.1    | .00    | .00   | e32    | 15     | 4.0    | .00   |
| 26    | 5.7    | .00   | .00   | .00    | .00  | 73     | .00    | .00   | e32    | 6.7    | 6.8    | .00   |
| 27    | 5.2    | .00   | .00   | .00    | .00  | 393    | .00    | .00   | e31    | .00    | 12     | .00   |
| 28    | 15     | .00   | .00   | .00    | .00  | 72     | .00    | .00   | e27    | .00    | .00    | .00   |
| 29    | .00    | .00   | .00   | .00    | ---  | 51     | .00    | .00   | e24    | .00    | .00    | .00   |
| 30    | .00    | .00   | .00   | .00    | ---  | 42     | .00    | .00   | e12    | .00    | .00    | .00   |
| 31    | .00    | ---   | .00   | .00    | ---  | 41     | ---    | .00   | ---    | .00    | .00    | ---   |
| TOTAL | 405.10 | 45.60 | 61.00 | 274.80 | 6.30 | 797.10 | 152.80 | 61.20 | 601.40 | 402.00 | 395.60 | 69.70 |
| MEAN  | 13.1   | 1.52  | 1.97  | 8.86   | .23  | 25.7   | 5.09   | 1.97  | 20.0   | 13.0   | 12.8   | 2.32  |
| MAX   | 72     | 27    | 23    | 48     | 6.3  | 393    | 36     | 24    | 99     | 42     | 45     | 18    |
| MIN   | .00    | .00   | .00   | .00    | .00  | .00    | .00    | .00   | .00    | .00    | .00    | .00   |
| AC-FT | 804    | 90    | 121   | 545    | 12   | 1580   | 303    | 121   | 1190   | 797    | 785    | 138   |

CAL YR 1985 TOTAL 3731.30 MEAN 10.2 MAX 256 MIN .00 AC-FT 7400  
WTR YR 1986 TOTAL 3272.60 MEAN 8.97 MAX 393 MIN .00 AC-FT 6490

e Estimated

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GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1           | 3.42 | 3.57 | 3.39 | 3.42 | 3.32 | 3.32 | 3.40 | 3.02 | 3.28 | 3.29 | 3.52 | 3.45 |
| 2           | 3.44 | 3.53 | 3.36 | 3.40 | 3.30 | 3.31 | 3.45 | 3.01 | 3.30 | 2.70 | 3.51 | 3.43 |
| 3           | 3.36 | 3.50 | 3.32 | 3.40 | 3.28 | 3.28 | 3.44 | 2.98 | 3.34 | 2.62 | 3.51 | 3.39 |
| 4           | 3.40 | 3.43 | 3.33 | 3.34 | 3.26 | 3.22 | 3.47 | 2.93 | 3.28 | 2.66 | 3.52 | 3.39 |
| 5           | 3.39 | 3.42 | 3.42 | 3.32 | 3.24 | 3.21 | 3.49 | 3.00 | 3.17 | 2.62 | 3.49 | 3.27 |
| 6           | 3.41 | 3.41 | 3.47 | 3.28 | 3.22 | 3.20 | 3.49 | 3.02 | 3.10 | 2.28 | 3.49 | 3.37 |
| 7           | 3.41 | 3.39 | 3.59 | 3.28 | 3.29 | 3.21 | 3.54 | 3.01 | 3.04 | 2.53 | 3.53 | 3.49 |
| 8           | 3.38 | 3.36 | 3.59 | 3.45 | 3.27 | 3.15 | 3.45 | 2.99 | 3.16 | 2.74 | 3.59 | 3.49 |
| 9           | 3.21 | 3.33 | 3.50 | 3.42 | 3.26 | 3.10 | 3.59 | 3.03 | 3.28 | 3.45 | 3.57 | 3.56 |
| 10          | 3.13 | 3.31 | 3.57 | 3.36 | 3.27 | 3.24 | 3.46 | 3.31 | 3.27 | 3.44 | 3.57 | 3.49 |
| 11          | 3.12 | 3.29 | 3.55 | 3.37 | 3.30 | 3.55 | 3.54 | 3.32 | 3.26 | 3.46 | 3.53 | 3.55 |
| 12          | 2.97 | 3.27 | 3.39 | 3.40 | 3.31 | 3.54 | 3.53 | 3.29 | 3.25 | 3.53 | 3.48 | 3.03 |
| 13          | 2.89 | 3.30 | 3.42 | 3.43 | 3.30 | 3.46 | 3.61 | 3.30 | 3.46 | 3.50 | 3.50 | 2.95 |
| 14          | 2.89 | 3.35 | 3.43 | 3.43 | 3.26 | 3.43 | 3.61 | 3.31 | 3.50 | 3.49 | 3.54 | 2.87 |
| 15          | 3.25 | 3.41 | 3.41 | 3.44 | 3.25 | 3.49 | 3.59 | 3.27 | 3.43 | 3.59 | 3.46 | 2.76 |
| 16          | 3.40 | 3.50 | 3.38 | 3.48 | 3.22 | 3.44 | 3.58 | 3.24 | 3.29 | 3.59 | 3.44 | 2.64 |
| 17          | 3.45 | 3.48 | 3.47 | 3.50 | 3.19 | 3.47 | 3.57 | 3.21 | 3.23 | 3.55 | 3.39 | 2.55 |
| 18          | 3.37 | 3.42 | 3.49 | 3.53 | 3.36 | 3.53 | 3.53 | 3.18 | 3.22 | 3.50 | 3.41 | 2.47 |
| 19          | 3.49 | 3.27 | 3.49 | 3.58 | 3.44 | 3.52 | 3.48 | 3.14 | 3.19 | 3.45 | 3.41 | 2.42 |
| 20          | 3.43 | 3.28 | 3.43 | 3.52 | 3.41 | 3.61 | 3.45 | 3.10 | 3.34 | 3.57 | 3.45 | 2.47 |
| 21          | 3.50 | 3.39 | 3.37 | 3.51 | 3.27 | 3.44 | 3.43 | 3.11 | 3.34 | 3.49 | 3.50 | 2.63 |
| 22          | 3.50 | 3.49 | 3.34 | 3.54 | 3.36 | 3.58 | 3.39 | 3.41 | 3.29 | 3.39 | 3.47 | 2.74 |
| 23          | 3.45 | 3.62 | 3.31 | 3.54 | 3.42 | 3.48 | 3.32 | 3.45 | 3.34 | 3.43 | 3.51 | 2.87 |
| 24          | 3.44 | 3.63 | 3.31 | 3.45 | 3.42 | 3.56 | 3.27 | 3.54 | 3.16 | 3.53 | 3.55 | 2.99 |
| 25          | 3.49 | 3.47 | 3.35 | 3.42 | 3.40 | 3.54 | 3.23 | 3.62 | 3.29 | 3.49 | 3.52 | 3.00 |
| 26          | 3.60 | 3.51 | 3.33 | 3.46 | 3.36 | 3.53 | 3.20 | 3.63 | 3.32 | 3.55 | 3.55 | 3.05 |
| 27          | 3.47 | 3.51 | 3.35 | 3.47 | 3.33 | 3.60 | 3.17 | 3.56 | 3.23 | 3.49 | 3.42 | 3.02 |
| 28          | 3.53 | 3.49 | 3.37 | 3.44 | 3.33 | 3.34 | 3.14 | 3.48 | 3.05 | 3.50 | 3.41 | 2.99 |
| 29          | 3.49 | 3.46 | 3.48 | 3.40 | ---  | 3.40 | 3.10 | 3.41 | 3.06 | 3.51 | 3.51 | 3.06 |
| 30          | 3.59 | 3.42 | 3.47 | 3.38 | ---  | 3.39 | 3.06 | 3.36 | 3.17 | 3.56 | 3.49 | 3.19 |
| 31          | 3.59 | ---  | 3.46 | 3.35 | ---  | 3.39 | ---  | 3.27 | ---  | 3.55 | 3.46 | ---  |
| MEAN        | 3.37 | 3.43 | 3.42 | 3.43 | 3.31 | 3.40 | 3.42 | 3.24 | 3.25 | 3.29 | 3.49 | 3.05 |
| MAX         | 3.60 | 3.63 | 3.59 | 3.58 | 3.44 | 3.61 | 3.61 | 3.63 | 3.50 | 3.59 | 3.59 | 3.56 |
| MIN         | 2.89 | 3.27 | 3.31 | 3.28 | 3.19 | 3.10 | 3.06 | 2.93 | 3.04 | 2.28 | 3.39 | 2.42 |
|             |      |      |      |      |      |      |      |      |      |      |      |      |
| CAL YR 1985 | MEAN | 3.24 | MAX  | 3.63 | MIN  | 2.10 |      |      |      |      |      |      |
| WTR YR 1986 | MEAN | 3.34 | MAX  | 3.63 | MIN  | 2.28 |      |      |      |      |      |      |

## 02283498 NORTH NEW RIVER CANAL AT S-2 AND HGS-4, NEAR SOUTH BAY, FL

LOCATION.--Lat 26°42'00", long 80°42'55", in SW¼ sec.35, T.43 S., R.36 E., Palm Beach County, Hydrologic Unit 03090202, at pump station 2 and hurricane gate structure 4, 500 ft upstream from Hillsboro Canal, and 2.7 mi north of South Bay.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1957 to September 1967 (gage heights), October 1967 to current year. Records of gage heights prior to October 1967 are available in files of the Geological Survey.

REVISED RECORDS.--WDR FL-77-2A: 1974.

GAGE.--Dual graphic water-stage recorder in pump station 2, digital lake water-stage recorder in control house of lock and digital canal water-stage recorder in canal, east side of S-2, gate-opening indicator, and pump tachometer. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Prior to Jan. 18, 1965, water-stage recorder at site 1,600 ft downstream at same datum. Electromagnetic velocity meter and digital recorder in lock chamber.

REMARKS.--No estimated daily discharges. Record poor. Flow regulated by hurricane gates and pump station at Lake Okeechobee. Discharge is summation of HGS-4 flow and S-2 pumpage. Flow frequently reversed during and after periods of heavy rainfall by pumpage into the canal from agricultural lands in the Everglades or by the operation of pump station No. 2 (negative figures indicate flow reversed). See records for North New River Canal below HGS-4, near South Bay (station 02283500) for table of daily gage height. Discharge computed from relation between discharge, head, gate openings, and pump tachometer.

COOPERATION.--S-2 pump record and HGS-4 gate-operation record provided by South Florida Water Management District.

AVERAGE DISCHARGE.--19 years, 35.9 ft<sup>3</sup>/s, 26,010 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,440 ft<sup>3</sup>/s Mar. 15, 1985; maximum gage height, 14.09 ft Sept. 28, 1962; maximum daily reverse flow, 4,900 ft<sup>3</sup>/s Aug. 19, 1981; no flow for some days each year; minimum gage height, 6.98 ft, observed, Oct. 28, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,100 ft<sup>3</sup>/s Apr. 24; maximum gage height, 13.35 ft Mar. 10; maximum daily reverse flow, 1,820 ft<sup>3</sup>/s June 21; no flow for many days; minimum gage height, 9.64 ft Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT    | NOV     | DEC     | JAN     | FEB  | MAR      | APR      | MAY      | JUN    | JUL  | AUG  | SEP  |
|-------|--------|---------|---------|---------|------|----------|----------|----------|--------|------|------|------|
| 1     | .00    | .00     | .00     | .00     | .00  | .00      | .00      | 1060     | 590    | .00  | .00  | .00  |
| 2     | .00    | .00     | 119     | .00     | .00  | .00      | .00      | 1070     | .00    | .00  | .00  | .00  |
| 3     | .00    | .00     | 173     | .00     | .00  | .00      | .00      | 1040     | .00    | .00  | .00  | .00  |
| 4     | .00    | .00     | 479     | .00     | .00  | .00      | .00      | 962      | 498    | .00  | .00  | .00  |
| 5     | .00    | .00     | 214     | .00     | .00  | .00      | .00      | 582      | 757    | .00  | .00  | .00  |
| 6     | .00    | .00     | .00     | .00     | .00  | .00      | .00      | .00      | 752    | .00  | .00  | .00  |
| 7     | .00    | .00     | .00     | .00     | .00  | .00      | .00      | .00      | 689    | .00  | .00  | .00  |
| 8     | .00    | .00     | .00     | .00     | .00  | .00      | .00      | 180      | 616    | .00  | .00  | .00  |
| 9     | .00    | .00     | .00     | .00     | .00  | .00      | .00      | 769      | 177    | .00  | .00  | .00  |
| 10    | .00    | .00     | .00     | .00     | .00  | .00      | 304      | 825      | .00    | .00  | .00  | .00  |
| 11    | .00    | 103     | .00     | .00     | .00  | -217     | 684      | 784      | .00    | .00  | .00  | .00  |
| 12    | .00    | 345     | .00     | .00     | .00  | -1540    | 755      | 792      | .00    | .00  | .00  | .00  |
| 13    | .00    | 414     | .00     | .00     | .00  | .00      | 710      | 839      | .00    | .00  | .00  | .00  |
| 14    | .00    | 399     | .00     | .00     | .00  | .00      | 553      | 853      | .00    | .00  | .00  | .00  |
| 15    | .00    | 291     | .00     | .00     | .00  | .00      | 490      | 831      | .00    | .00  | .00  | .00  |
| 16    | .00    | 155     | 281     | .00     | .00  | .00      | 663      | 829      | .00    | .00  | .00  | .00  |
| 17    | .00    | 159     | 143     | .00     | .00  | .00      | 768      | 817      | .00    | .00  | .00  | .00  |
| 18    | 116    | 55      | .00     | .00     | .00  | .00      | 779      | 815      | .00    | .00  | .00  | .00  |
| 19    | 173    | .00     | .00     | .00     | .00  | .00      | 765      | 782      | .00    | .00  | .00  | .00  |
| 20    | 46     | .00     | .00     | .00     | .00  | .00      | 722      | 444      | -783   | .00  | .00  | .00  |
| 21    | .00    | .00     | .00     | .00     | .00  | .00      | 605      | 128      | -1820  | .00  | .00  | .00  |
| 22    | .00    | .00     | .00     | .00     | .00  | .00      | 512      | .00      | -1120  | .00  | .00  | .00  |
| 23    | 50     | .00     | 275     | .00     | .00  | .00      | 873      | .00      | -137   | .00  | .00  | .00  |
| 24    | 112    | .00     | 137     | .00     | .00  | .00      | 1100     | .00      | .00    | .00  | .00  | .00  |
| 25    | 59     | .00     | .00     | .00     | .00  | .00      | 1080     | .00      | .00    | .00  | .00  | .00  |
| 26    | .00    | .00     | 585     | .00     | .00  | .00      | 1060     | .00      | .00    | .00  | .00  | .00  |
| 27    | .00    | .00     | 464     | 697     | .00  | .00      | 1040     | 323      | .00    | .00  | .00  | .00  |
| 28    | .00    | .00     | .00     | 1000    | .00  | .00      | 1030     | 795      | .00    | .00  | .00  | .00  |
| 29    | .00    | .00     | .00     | 260     | ---  | .00      | 1050     | 903      | .00    | .00  | .00  | .00  |
| 30    | .00    | .00     | .00     | .00     | ---  | .00      | 1060     | 954      | .00    | .00  | .00  | .00  |
| 31    | .00    | ---     | .00     | .00     | ---  | .00      | ---      | 925      | ---    | .00  | .00  | ---  |
| TOTAL | 556.00 | 1921.00 | 2870.00 | 1957.00 | .00  | -1757.00 | 16603.00 | 18302.00 | 219.00 | .00  | .00  | .00  |
| MEAN  | 17.9   | 64.0    | 92.6    | 63.1    | .000 | -56.7    | 553      | 590      | 7.30   | .000 | .000 | .000 |
| MAX   | 173    | 414     | 585     | 1000    | .00  | .00      | 1100     | 1070     | 757    | .00  | .00  | .00  |
| MIN   | .00    | .00     | .00     | .00     | .00  | -1540    | .00      | .00      | -1820  | .00  | .00  | .00  |
| AC-FT | 1100   | 3810    | 5690    | 3880    | .00  | -3490    | 32930    | 36300    | 434    | .00  | .00  | .00  |

CAL YR 1985 TOTAL 126973.00 MEAN 348 MAX 3440 MIN -3370 AC-FT 251900  
WTR YR 1986 TOTAL 40671.00 MEAN 111 MAX 1100 MIN -1820 AC-FT 80670



## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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02283498 NORTH NEW RIVER CANAL AT S-2 AND HGS-4, NEAR SOUTH BAY, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT        | NOV   | DEC       | JAN       | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|------------|-------|-----------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 14.37      | 14.24 | 13.98     | 13.83     | 14.10 | 14.63 | 14.40 | 13.46 | 12.89 | 13.56 | 14.24 | 14.95 |
| 2           | 14.36      | 14.33 | 14.07     | 13.85     | 14.12 | 14.33 | 14.31 | 13.45 | 12.92 | 13.60 | 14.18 | 14.98 |
| 3           | 14.34      | 14.27 | 14.32     | 13.85     | 14.11 | 14.13 | 14.28 | 13.49 | 12.95 | 13.60 | 14.23 | 15.01 |
| 4           | 14.40      | 14.57 | 14.05     | 13.82     | 14.06 | 14.06 | 14.21 | 13.46 | 12.99 | 13.63 | 14.28 | 15.08 |
| 5           | 14.45      | 14.60 | 14.05     | 14.07     | 14.04 | 14.14 | 14.24 | 13.32 | 12.96 | 13.76 | 14.34 | 15.08 |
| 6           | 14.59      | 14.40 | 14.44     | 14.07     | 13.98 | 14.14 | 14.20 | 13.31 | 12.85 | 13.89 | 14.35 | 15.03 |
| 7           | 14.72      | 14.32 | 14.27     | 13.87     | 14.07 | 14.07 | 14.19 | 13.36 | 12.74 | 13.97 | 14.35 | 15.03 |
| 8           | 14.53      | 14.30 | 14.12     | 14.02     | 14.06 | 14.15 | 14.19 | 13.35 | 12.71 | 14.01 | 14.38 | 15.03 |
| 9           | 14.63      | 14.29 | 14.13     | 13.95     | 14.11 | 13.90 | 14.26 | 13.41 | 12.84 | 13.99 | 14.35 | 15.11 |
| 10          | 14.50      | 14.30 | 14.05     | 13.87     | 14.04 | 14.10 | 14.34 | 13.53 | 12.84 | 14.03 | 14.27 | 15.12 |
| 11          | 14.46      | 14.26 | 14.02     | 14.40     | 14.07 | 14.22 | 14.27 | 13.43 | 12.85 | 14.05 | 14.24 | 15.11 |
| 12          | 14.46      | 14.24 | 13.99     | 14.30     | 14.34 | 14.18 | 14.16 | 13.29 | 12.86 | 14.15 | 14.25 | 15.17 |
| 13          | 14.44      | 14.24 | 13.94     | 14.32     | 14.47 | 14.05 | 14.08 | 13.24 | 12.98 | 14.09 | 14.35 | 15.20 |
| 14          | 14.44      | 14.20 | 14.42     | 14.28     | 14.16 | 14.26 | 14.19 | 13.28 | 12.94 | 14.16 | 14.46 | 15.21 |
| 15          | 14.43      | 14.18 | 14.39     | 14.12     | 14.14 | 14.30 | 14.05 | 13.25 | 12.87 | 14.12 | 14.48 | 15.22 |
| 16          | 14.46      | 14.16 | 14.24     | 14.10     | 14.19 | 14.25 | 14.10 | 13.22 | 12.87 | 14.11 | 14.52 | 15.24 |
| 17          | 14.42      | 14.19 | 14.31     | 14.10     | 14.07 | 14.39 | 14.18 | 13.14 | 12.97 | 14.14 | 14.52 | 15.26 |
| 18          | 14.43      | 14.25 | 14.20     | 14.10     | 14.06 | 14.22 | 14.11 | 13.11 | 12.99 | 14.12 | 14.53 | 15.23 |
| 19          | 14.40      | 14.10 | 14.23     | 14.13     | 14.11 | 14.16 | 14.02 | 13.06 | 13.04 | 14.10 | 14.53 | 15.29 |
| 20          | 14.41      | 13.92 | 14.10     | 14.25     | 14.16 | 14.26 | 13.77 | 13.12 | 13.14 | 14.09 | 14.55 | 15.25 |
| 21          | 14.40      | 13.88 | 14.16     | 14.28     | 14.18 | 14.92 | 13.76 | 13.03 | 13.29 | 14.08 | 14.70 | 15.31 |
| 22          | 14.37      | 14.06 | 14.08     | 14.18     | 14.19 | 15.14 | 14.04 | 13.24 | 13.31 | 14.10 | 14.77 | 15.28 |
| 23          | 14.35      | 14.23 | 13.91     | 14.17     | 14.19 | 14.98 | 14.08 | 13.19 | 13.36 | 14.19 | 14.83 | 15.27 |
| 24          | 14.39      | 14.16 | 13.87     | 14.26     | 14.30 | 14.57 | 13.87 | 13.17 | 13.36 | 14.18 | 14.81 | 15.26 |
| 25          | 14.41      | 14.13 | 14.16     | 14.16     | 14.59 | 14.38 | 13.75 | 13.16 | 13.40 | 14.15 | 14.81 | 15.26 |
| 26          | 14.33      | 14.06 | 14.27     | 14.35     | 14.31 | 14.36 | 13.64 | 13.09 | 13.42 | 14.16 | 14.82 | 15.23 |
| 27          | 14.24      | 14.02 | 13.94     | 14.59     | 14.00 | 14.45 | 13.63 | 13.02 | 13.46 | 14.22 | 14.84 | 15.27 |
| 28          | 14.29      | 13.97 | 13.87     | 14.33     | 14.21 | 14.50 | 13.64 | 13.00 | 13.46 | 14.18 | 14.88 | 15.26 |
| 29          | 14.32      | 13.98 | 13.88     | 14.12     | ---   | 14.47 | 13.63 | 13.01 | 13.46 | 14.17 | 14.91 | 15.22 |
| 30          | 14.24      | 13.95 | 14.04     | 14.08     | ---   | 14.41 | 13.60 | 12.95 | 13.50 | 14.21 | 14.90 | 15.20 |
| 31          | 14.02      | ---   | 13.82     | 14.14     | ---   | 14.45 | ---   | 12.91 | ---   | 14.26 | 14.93 | ---   |
| MEAN        | 14.41      | 14.19 | 14.11     | 14.13     | 14.16 | 14.34 | 14.04 | 13.23 | 13.07 | 14.03 | 14.54 | 15.17 |
| MAX         | 14.72      | 14.60 | 14.44     | 14.59     | 14.59 | 15.14 | 14.40 | 13.53 | 13.50 | 14.26 | 14.93 | 15.31 |
| MIN         | 14.02      | 13.88 | 13.82     | 13.82     | 13.98 | 13.90 | 13.60 | 12.91 | 12.71 | 13.56 | 14.18 | 14.95 |
| CAL YR 1985 | MEAN 13.51 |       | MAX 15.37 | MIN 11.65 |       |       |       |       |       |       |       |       |
| WTR YR 1986 | MEAN 14.12 |       | MAX 15.31 | MIN 12.71 |       |       |       |       |       |       |       |       |

## 02283500 NORTH NEW RIVER CANAL BELOW HGS-4, NEAR SOUTH BAY, FL

LOCATION.--Lat 26°41'50", long 80°42'50", in SW¼ sec.35, T.43 S., R.36 E., Palm Beach County, Hydrologic Unit 03090202, 30 ft from west bank, 800 ft downstream from Hillsboro Canal, 1,600 ft downstream from hurricane gate structure 4 and pump station 2 at Lake Okeechobee, and 2.5 mi north of South Bay.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1957 to current year. Records of gage heights prior to October 1961 are available in files of the Geological Survey.

REVISED RECORD.--WDR FL-77-2A: 1974, 1975.

GAGE.--Water-stage recorder at pump station 2. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Prior to Jan. 18, 1954, water-stage and deflection-meter recorder at site 1,600 ft downstream at same datum. Jan. 19, 1965 to Sept. 30, 1967 deflection-meter recorder at site 1,600 ft downstream.

REMARKS.--Records poor. Flow regulated by hurricane gate and pump station at Lake Okeechobee. Flow occasionally reversed during and after periods of heavy rainfall by pumpage into the canal from agricultural lands in the Everglades (negative figures indicate flow reversed). Discharge is the difference in flow between North New River Canal at S-2 and HGS-4 and Hillsboro Canal below HGS-4.

AVERAGE DISCHARGE.--29 years, 71.1 ft<sup>3</sup>/s, 51,510 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,100 ft<sup>3</sup>/s June 16, 1977; maximum gage height, 14.09 ft Sept. 28, 1962; maximum daily reverse flow, 3,190 ft<sup>3</sup>/s Aug. 19, 1981; minimum gage height, 6.98 ft observed Oct. 28, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,070 ft<sup>3</sup>/s Apr. 24; maximum gage height, 13.35 ft Mar. 10, 11; maximum daily reverse flow, 1,330 ft<sup>3</sup>/s June 21; minimum gage height, 9.64 ft Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT  | NOV  | DEC    | JAN  | FEB   | MAR    | APR   | MAY   | JUN     | JUL     | AUG   | SEP     |
|-------|------|------|--------|------|-------|--------|-------|-------|---------|---------|-------|---------|
| 1     | -18  | e166 | 79     | 83   | 34    | 284    | 53    | 872   | 572     | 44      | -178  | -29     |
| 2     | -81  | 114  | 140    | 62   | 47    | 266    | -18   | 748   | .00     | -70     | -60   | -28     |
| 3     | -75  | 164  | 155    | 162  | 39    | 91     | -24   | 797   | -61     | 52      | -32   | -103    |
| 4     | 154  | 84   | 415    | 176  | 186   | 257    | 33    | 836   | 389     | 111     | -141  | -12     |
| 5     | 159  | 118  | 405    | 119  | 243   | 479    | 142   | 546   | 702     | 200     | -175  | 92      |
| 6     | -36  | 117  | 8.4    | 92   | 245   | 145    | 117   | 155   | 703     | -96     | -181  | 48      |
| 7     | -165 | 105  | -43    | 127  | 283   | 173    | 133   | 208   | 610     | -125    | -62   | 32      |
| 8     | -136 | 102  | 23     | 18   | 279   | 147    | 144   | 293   | 503     | -18     | 21    | -96     |
| 9     | -86  | 110  | 132    | 11   | 212   | 147    | 148   | 697   | 165     | -182    | -51   | -51     |
| 10    | -19  | 97   | 101    | 170  | 261   | 432    | 410   | 794   | 5.0     | -316    | -39   | -156    |
| 11    | -15  | 163  | 98     | 33   | 305   | 444    | 627   | 749   | 132     | -79     | 96    | -178    |
| 12    | -16  | 343  | 103    | 32   | 258   | -1320  | 719   | 766   | -33     | -238    | 168   | -70     |
| 13    | -27  | 394  | 108    | -11  | 287   | 93     | 678   | 810   | -18     | -192    | 85    | -15     |
| 14    | 21   | 380  | 52     | -16  | 302   | 82     | 535   | 810   | -55     | -226    | 177   | -24     |
| 15    | 20   | 272  | 17     | 58   | 341   | 53     | 481   | 768   | -197    | -215    | 3.5   | -13     |
| 16    | 302  | 135  | 279    | 126  | 377   | 101    | 639   | 789   | -167    | -120    | -84   | -56     |
| 17    | e100 | 149  | 188    | 229  | 365   | 58     | 747   | 779   | -72     | -146    | 6.7   | -18     |
| 18    | e104 | 41   | 53     | 125  | 254   | -16    | 758   | 774   | -18     | -28     | 5.4   | 24      |
| 19    | e156 | 142  | 67     | 96   | -605  | 126    | 752   | 748   | -74     | -28     | 78    | 51      |
| 20    | e 41 | 157  | 77     | 103  | 54    | 45     | 711   | 448   | -687    | 1.2     | 114   | 32      |
| 21    | e 75 | 33   | 79     | 104  | 24    | 5.5    | 572   | 121   | -1330   | 31      | 101   | 21      |
| 22    | e 75 | 71   | 71     | 108  | 109   | -1.3   | 485   | -43   | -1040   | -153    | 88    | -111    |
| 23    | e 45 | 66   | 281    | 116  | 126   | 20     | 844   | -25   | -349    | -157    | 68    | -73     |
| 24    | e101 | 66   | 133    | 94   | 178   | -8.4   | 1070  | -22   | -272    | 111     | -27   | -108    |
| 25    | e 53 | 75   | 5.8    | 83   | 220   | 41     | 1060  | -30   | -206    | -47     | 210   | -148    |
| 26    | e 75 | 98   | 512    | 69   | 229   | 34     | 1030  | 96    | -142    | -42     | 136   | -108    |
| 27    | e100 | 101  | 382    | 637  | 259   | 1.1    | 1030  | 326   | -9.0    | -63     | 33    | -29     |
| 28    | e100 | 101  | 95     | 963  | 342   | 252    | 1020  | 673   | 205     | -106    | -8.8  | -6.2    |
| 29    | e100 | 72   | 100    | 317  | ---   | 23     | 1030  | 789   | 170     | -173    | -283  | -29     |
| 30    | e100 | 50   | 122    | 97   | ---   | -13    | 1040  | 761   | 126     | 133     | -56   | -21     |
| 31    | e100 | ---  | 106    | 73   | ---   | 25     | ---   | 861   | ---     | -20     | -26   | ---     |
| TOTAL | 1307 | 4086 | 4344.2 | 4456 | 5254  | 2465.9 | 16966 | 16894 | -448.00 | -2156.8 | -13.2 | -1182.2 |
| MEAN  | 42.2 | 136  | 140    | 144  | 188   | 79.5   | 566   | 545   | -14.9   | -69.6   | -1.43 | -39.4   |
| MAX   | 302  | 394  | 512    | 963  | 377   | 479    | 1070  | 872   | 703     | 200     | 210   | 92      |
| MIN   | -165 | 33   | -43    | -16  | -605  | -1320  | -24   | -43   | -1330   | -316    | -283  | -178    |
| AC-FT | 2590 | 8100 | 8620   | 8840 | 10420 | 4890   | 33650 | 33510 | -889    | -4280   | -26   | -2340   |

CAL YR 1985 TOTAL 59121.20 MEAN 162 MAX 1860 MIN -3010 AC-FT 117300  
WTR YR 1986 TOTAL 51972.90 MEAN 142 MAX 1070 MIN -1330 AC-FT 103100

e Estimated

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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02283500 NORTH NEW RIVER CANAL BELOW HGS-4, NEAR SOUTH BAY, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT        | NOV   | DEC       | JAN      | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|------------|-------|-----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 11.72      | 11.07 | 10.72     | 11.15    | 11.12 | 11.10 | 11.31 | 11.02 | 11.05 | 12.10 | 11.36 | 11.36 |
| 2           | 11.68      | 11.16 | 10.71     | 11.60    | 11.10 | 10.77 | 11.10 | 10.94 | 10.67 | 12.13 | 10.68 | 11.43 |
| 3           | 11.75      | 11.16 | 10.81     | 11.11    | 11.04 | 10.96 | 10.85 | 11.12 | 10.84 | 11.45 | 10.90 | 11.23 |
| 4           | 11.70      | 11.30 | 10.96     | 11.16    | 11.39 | 11.15 | 10.69 | 11.44 | 11.12 | 11.54 | 11.35 | 10.08 |
| 5           | 11.39      | 11.26 | 11.68     | 11.20    | 11.20 | 11.00 | 10.73 | 11.52 | 11.33 | 12.42 | 11.48 | 10.49 |
| 6           | 10.47      | 11.13 | 11.27     | 11.38    | 11.11 | 10.91 | 10.75 | 11.47 | 11.24 | 12.46 | 10.84 | 10.30 |
| 7           | 11.10      | 11.19 | 10.79     | 11.31    | 11.00 | 10.86 | 10.72 | 11.21 | 11.38 | 11.78 | 11.00 | 11.03 |
| 8           | 10.91      | 11.20 | 11.04     | 11.80    | 11.14 | 10.67 | 10.36 | 10.66 | 11.62 | 10.99 | 11.02 | 11.60 |
| 9           | 11.07      | 11.12 | 11.18     | 11.12    | 10.76 | 10.93 | 10.61 | 10.69 | 11.63 | 11.78 | 10.73 | 10.34 |
| 10          | 10.79      | 10.89 | 11.04     | 11.61    | 10.60 | 12.02 | 10.66 | 11.58 | 10.76 | 11.25 | 10.65 | 11.46 |
| 11          | 10.44      | 10.81 | 11.10     | 11.40    | 10.98 | 13.24 | 10.92 | 11.67 | 10.92 | 11.50 | 11.11 | 9.94  |
| 12          | 10.62      | 10.87 | 11.05     | 10.59    | 10.80 | 10.69 | 11.26 | 11.50 | 10.95 | 11.19 | 10.48 | 9.84  |
| 13          | 10.87      | 11.24 | 10.94     | 11.28    | 10.90 | 11.00 | 11.52 | 11.23 | 12.18 | 11.31 | 11.00 | 10.32 |
| 14          | 11.09      | 11.42 | 11.00     | 11.36    | 11.06 | 10.71 | 11.65 | 11.21 | 11.88 | 11.66 | 10.84 | 10.61 |
| 15          | 11.16      | 11.44 | 10.92     | 11.17    | 11.13 | 10.48 | 11.31 | 11.28 | 11.76 | 11.39 | 11.70 | 10.72 |
| 16          | 11.13      | 11.28 | 10.88     | 11.15    | 11.16 | 12.18 | 11.24 | 11.26 | 11.18 | 11.64 | 11.30 | 10.79 |
| 17          | 11.03      | 11.15 | 11.29     | 11.72    | 11.14 | 10.49 | 11.18 | 11.24 | 11.52 | 11.17 | 11.20 | 10.74 |
| 18          | 10.81      | 11.07 | 11.15     | 10.65    | 11.93 | 11.15 | 11.03 | 11.22 | 11.65 | 11.03 | 12.16 | 10.56 |
| 19          | 10.94      | 11.08 | 10.94     | 11.01    | 11.28 | 11.13 | 11.05 | 11.31 | 11.76 | 11.15 | 11.42 | 10.15 |
| 20          | 11.56      | 10.80 | 10.95     | 11.32    | 11.65 | 11.03 | 11.12 | 11.24 | 12.83 | 10.93 | 11.29 | 10.07 |
| 21          | 10.76      | 11.30 | 10.81     | 11.09    | 11.21 | 11.08 | 11.15 | 10.97 | 12.57 | 10.82 | 11.33 | 11.46 |
| 22          | 10.50      | 11.54 | 10.61     | 11.24    | 10.54 | 11.45 | 11.05 | 10.66 | 12.67 | 11.36 | 10.99 | 10.89 |
| 23          | 10.86      | 11.69 | 10.68     | 11.32    | 10.50 | 11.59 | 10.88 | 10.87 | 12.77 | 10.95 | 11.03 | 10.71 |
| 24          | 10.99      | 11.49 | 11.01     | 11.01    | 10.99 | 11.46 | 11.25 | 11.26 | 12.46 | 10.69 | 10.62 | 11.07 |
| 25          | 11.17      | 11.33 | 10.84     | 10.99    | 10.92 | 10.95 | 11.24 | 11.19 | 11.73 | 11.55 | 11.30 | 11.48 |
| 26          | 11.00      | 11.30 | 10.80     | 10.94    | 10.88 | 11.24 | 11.21 | 11.02 | 11.17 | 11.75 | 11.17 | 11.16 |
| 27          | 10.91      | 11.12 | 11.26     | 10.95    | 10.90 | 11.35 | 11.28 | 10.98 | 10.96 | 11.69 | 10.80 | 10.52 |
| 28          | 11.09      | 10.94 | 10.99     | 11.60    | 10.87 | 9.96  | 11.32 | 11.10 | 11.22 | 11.04 | 10.80 | 10.96 |
| 29          | 10.94      | 10.79 | 11.11     | 11.91    | ---   | 10.90 | 11.26 | 11.21 | 11.27 | 10.70 | 11.35 | 11.52 |
| 30          | 11.41      | 10.85 | 11.25     | 11.35    | ---   | 11.37 | 11.14 | 10.94 | 11.58 | 11.24 | 10.51 | 11.69 |
| 31          | 10.61      | ---   | 11.22     | 10.89    | ---   | 11.52 | ---   | 11.02 | ---   | 11.04 | 10.88 | ---   |
| MEAN        | 11.05      | 11.17 | 11.00     | 11.24    | 11.05 | 11.14 | 11.06 | 11.16 | 11.56 | 11.41 | 11.07 | 10.82 |
| MAX         | 11.75      | 11.69 | 11.68     | 11.91    | 11.93 | 13.24 | 11.65 | 11.67 | 12.83 | 12.46 | 12.16 | 11.69 |
| MIN         | 10.44      | 10.79 | 10.61     | 10.59    | 10.50 | 9.96  | 10.36 | 10.66 | 10.67 | 10.69 | 10.48 | 9.84  |
| CAL YR 1985 | MEAN 11.28 |       | MAX 13.03 | MIN 9.76 |       |       |       |       |       |       |       |       |
| WTR YR 1986 | MEAN 11.14 |       | MAX 13.24 | MIN 9.84 |       |       |       |       |       |       |       |       |

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

## 02285000 NORTH NEW RIVER CANAL NEAR FORT LAUDERDALE, FL

LOCATION.--Lat 26°05'39", long 80°13'48", in SW¼ sec.14, T.50 S., R.41 E., Broward County, Hydrologic Unit 03090202, on left bank 20 ft upstream from lock and salinity-control structure on State Highway 84, and 6 mi southwest of Fort Lauderdale.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May to September 1913 (discharge measurements). November 1939 to current year. Records of gage heights prior to October 1961 are available in files of the Geological Survey.

GAGE.--Water-stage recorder and sharp crested weir. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Prior to Apr. 13, 1940, nonrecording gage at same site and datum. Dec. 9, 1959, to Sept. 30, 1967, deflection vane recorder near left bank 20 ft upstream from lock and dam. Auxiliary water-stage recorder at downstream end of lock chamber. Aug. 1, 1947, to July 20, 1950, auxiliary gage at site 300 ft downstream.

REMARKS.--Records poor. Flow regulated at and above station by control structure for irrigation, drainage, and flood and fire control. Several small diversions above station for irrigation. Since February 1952, flow materially affected by control structure at 20-mile bend, 14 mi upstream. Discharge computed from relations between discharge, head, and submergence.

COOPERATION.--Stoplog record provided by South Florida Water Management District.

AVERAGE DISCHARGE.--46 years, 376 ft<sup>3</sup>/s, 272,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,280 ft<sup>3</sup>/s Nov. 19, 1947; maximum gage height, 10.83 ft Oct. 17, 1947; no flow May 5, 6, 13, 15-20, 24-26, 1966; minimum gage height, 0.08 ft Aug. 13, 1978, July 19, 1982.

EXTREMES OUTSIDE OF PERIOD OF RECORD.--Flood of Oct. 15, 1929, reached a stage of 7.66 ft, present site and datum, discharge, 5,400 ft<sup>3</sup>/s from records by Everglades Drainage District.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,370 ft<sup>3</sup>/s, Mar. 27; maximum gage height, 4.63 ft Mar. 26; minimum daily discharge, 17 ft<sup>3</sup>/s May 4; minimum gage height, 1.72 ft July 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR   | APR   | MAY  | JUN  | JUL   | AUG   | SEP   |
|-------|------|------|------|------|------|-------|-------|------|------|-------|-------|-------|
| 1     | 152  | 142  | 90   | 84   | 62   | 45    | 797   | 21   | 89   | 188   | 547   | 763   |
| 2     | 158  | 139  | 88   | 83   | 61   | 43    | 774   | 21   | 91   | 374   | 584   | 679   |
| 3     | 202  | 138  | 86   | 79   | 61   | 39    | 753   | 20   | 92   | 535   | 649   | 601   |
| 4     | 212  | 155  | 85   | 73   | 60   | 38    | 736   | 17   | 90   | 538   | 608   | 610   |
| 5     | 232  | 148  | 129  | 75   | 58   | 36    | 728   | 20   | 87   | 559   | 442   | 614   |
| 6     | 158  | 139  | 150  | 72   | 57   | 36    | 736   | 24   | 85   | 551   | 525   | 638   |
| 7     | 128  | 133  | 121  | 76   | 32   | 37    | 740   | 26   | 81   | 501   | 541   | 730   |
| 8     | 128  | 109  | 111  | 95   | 24   | 35    | 737   | 25   | 86   | 484   | 509   | 697   |
| 9     | 108  | 100  | 107  | 184  | 27   | 29    | 775   | 27   | 101  | 480   | 509   | 852   |
| 10    | 97   | 104  | 102  | e430 | 28   | 47    | 382   | 42   | 99   | 529   | 545   | 873   |
| 11    | 90   | 109  | 96   | e346 | 29   | 125   | 95    | 52   | 95   | e646  | 549   | 824   |
| 12    | 84   | 55   | 92   | e297 | 29   | 118   | 112   | 44   | 104  | e689  | 477   | 759   |
| 13    | 82   | 37   | 86   | 325  | 29   | 90    | 130   | 36   | 191  | e668  | 543   | 770   |
| 14    | 76   | 74   | 88   | 163  | 27   | 185   | 137   | 36   | 155  | e650  | 545   | 806   |
| 15    | 91   | 108  | 86   | 138  | 27   | 196   | 138   | 34   | 322  | e632  | 552   | 801   |
| 16    | 123  | 123  | 83   | 138  | 25   | 223   | 78    | 34   | 305  | e629  | 562   | 787   |
| 17    | 126  | 121  | 92   | 166  | 19   | 195   | 45    | 31   | 98   | e635  | 589   | 788   |
| 18    | 129  | 372  | 93   | 160  | 38   | 109   | 41    | 29   | 83   | e646  | 587   | 747   |
| 19    | 143  | 462  | 87   | 156  | 136  | 104   | 40    | 28   | 164  | 642   | 571   | 611   |
| 20    | 172  | 112  | 83   | 88   | 58   | 108   | 38    | 28   | 320  | 665   | 540   | 592   |
| 21    | 171  | 94   | 78   | 76   | 55   | 151   | 82    | 36   | 283  | 688   | 541   | 648   |
| 22    | 208  | 95   | 77   | 83   | 35   | 136   | 48    | 197  | 233  | 420   | 526   | 640   |
| 23    | 192  | 124  | 74   | 86   | 36   | 111   | 26    | 229  | 230  | 85    | 526   | 319   |
| 24    | 184  | 121  | 77   | 81   | 37   | 114   | 26    | 177  | 253  | 170   | 538   | 117   |
| 25    | 142  | 113  | 81   | 67   | 37   | 111   | 25    | 148  | 216  | 178   | 527   | 72    |
| 26    | 147  | 106  | 76   | 70   | e37  | 459   | 25    | 128  | 202  | 182   | 518   | 56    |
| 27    | 153  | 101  | 72   | 69   | 37   | 2370  | 25    | 115  | 206  | 172   | 509   | 58    |
| 28    | 157  | 97   | 76   | 65   | 38   | 1130  | 24    | 105  | 200  | 339   | 515   | 58    |
| 29    | 151  | 94   | 91   | 63   | ---  | 280   | 24    | 98   | 222  | 617   | 529   | 61    |
| 30    | 149  | 92   | 89   | 64   | ---  | 243   | 23    | 93   | 243  | 607   | 593   | 67    |
| 31    | 145  | ---  | 84   | 64   | ---  | 546   | ---   | 88   | ---  | 557   | 711   | ---   |
| TOTAL | 4490 | 3917 | 2830 | 4016 | 1199 | 7489  | 8340  | 2009 | 5026 | 15256 | 17007 | 16638 |
| MEAN  | 145  | 131  | 91.3 | 130  | 42.8 | 242   | 278   | 64.8 | 168  | 492   | 549   | 555   |
| MAX   | 232  | 462  | 150  | 430  | 136  | 2370  | 797   | 229  | 322  | 689   | 711   | 873   |
| MIN   | 76   | 37   | 72   | 63   | 19   | 29    | 23    | 17   | 81   | 85    | 442   | 56    |
| AC-FT | 8910 | 7770 | 5610 | 7970 | 2380 | 14850 | 16540 | 3980 | 9970 | 30260 | 33730 | 33000 |

CAL YR 1985 TOTAL 27842.8 MEAN 76.3 MAX 840 MIN 3.0 AC-FT 55230  
WTR YR 1986 TOTAL 88217.0 MEAN 242 MAX 2370 MIN 17 AC-FT 175000

e Estimated

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GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1           | 3.69 | 3.55 | 3.40 | 3.37 | 3.21 | 3.67 | 2.37 | 3.49 | 3.40 | 3.31 | 2.82 | 3.44 |
| 2           | 3.72 | 3.54 | 3.39 | 3.36 | 3.21 | 3.65 | 2.31 | 3.48 | 3.40 | 2.91 | 2.93 | 3.21 |
| 3           | 3.93 | 3.54 | 3.37 | 3.33 | 3.21 | 3.62 | 2.26 | 3.47 | 3.41 | 2.77 | 3.13 | 2.98 |
| 4           | 3.98 | 3.62 | 3.37 | 3.30 | 3.20 | 3.61 | 2.21 | 3.44 | 3.40 | 2.78 | 3.00 | 3.01 |
| 5           | 4.06 | 3.59 | 3.62 | 3.31 | 3.19 | 3.59 | 2.19 | 3.47 | 3.38 | 2.84 | 2.47 | 3.02 |
| 6           | 3.72 | 3.54 | 3.72 | 3.29 | 3.18 | 3.59 | 2.21 | 3.52 | 3.37 | 2.82 | 2.75 | 3.09 |
| 7           | 3.58 | 3.51 | 3.58 | 3.31 | 3.36 | 3.60 | 2.22 | 3.54 | 3.34 | 2.66 | 2.80 | 3.35 |
| 8           | 3.58 | 3.38 | 3.53 | 3.43 | 3.49 | 3.58 | 2.21 | 3.53 | 3.37 | 2.60 | 2.70 | 3.26 |
| 9           | 3.47 | 3.33 | 3.50 | 3.47 | 3.51 | 3.53 | 2.31 | 3.55 | 3.46 | 2.59 | 2.70 | 2.88 |
| 10          | 3.40 | 3.35 | 3.47 | 3.40 | 3.52 | 3.67 | 2.78 | 3.68 | 3.45 | 2.75 | 2.81 | 2.57 |
| 11          | 3.36 | 3.38 | 3.44 | 2.73 | 3.54 | 4.17 | 3.24 | 3.76 | 3.43 | 2.37 | 2.82 | 2.44 |
| 12          | 3.33 | 3.50 | 3.41 | 2.54 | 3.54 | 4.13 | 3.54 | 3.70 | 3.48 | 2.07 | 2.59 | 2.26 |
| 13          | 3.31 | 3.62 | 3.38 | 2.65 | 3.53 | 3.97 | 3.63 | 3.64 | 3.65 | 2.01 | 2.80 | 2.29 |
| 14          | 3.28 | 3.61 | 3.39 | 2.73 | 3.51 | 3.64 | 3.67 | 3.63 | 3.14 | 1.96 | 2.81 | 2.39 |
| 15          | 3.39 | 3.48 | 3.37 | 3.04 | 3.52 | 3.33 | 3.68 | 3.62 | 3.84 | 1.91 | 2.83 | 2.37 |
| 16          | 3.59 | 3.57 | 3.36 | 3.04 | 3.50 | 3.46 | 3.72 | 3.61 | 3.78 | 1.90 | 2.86 | 2.34 |
| 17          | 3.61 | 3.56 | 3.41 | 2.76 | 3.43 | 3.33 | 3.70 | 3.59 | 3.20 | 1.91 | 2.95 | 2.34 |
| 18          | 3.62 | 3.13 | 3.42 | 2.54 | 3.60 | 3.30 | 3.67 | 3.57 | 3.31 | 1.94 | 2.94 | 2.23 |
| 19          | 3.69 | 2.61 | 3.38 | 2.52 | 3.20 | 3.47 | 3.66 | 3.55 | 3.75 | 1.93 | 2.89 | 2.22 |
| 20          | 3.83 | 3.07 | 3.36 | 2.96 | 3.77 | 3.49 | 3.64 | 3.55 | 4.03 | 2.00 | 2.79 | 2.35 |
| 21          | 3.82 | 3.42 | 3.33 | 3.30 | 3.74 | 3.71 | 3.60 | 3.62 | 3.72 | 2.06 | 2.80 | 2.51 |
| 22          | 3.58 | 3.43 | 3.32 | 3.35 | 3.59 | 3.63 | 3.51 | 4.11 | 3.52 | 2.56 | 2.75 | 2.49 |
| 23          | 3.32 | 3.60 | 3.31 | 3.37 | 3.59 | 3.50 | 3.54 | 4.09 | 3.50 | 3.95 | 2.75 | 3.14 |
| 24          | 3.28 | 3.58 | 3.32 | 3.33 | 3.60 | 3.52 | 3.54 | 3.85 | 3.60 | 4.01 | 2.79 | 3.55 |
| 25          | 3.40 | 3.54 | 3.35 | 3.25 | 3.60 | 3.51 | 3.53 | 3.71 | 3.45 | 3.85 | 2.75 | 3.64 |
| 26          | 3.58 | 3.49 | 3.31 | 3.27 | 3.60 | 3.83 | 3.53 | 3.62 | 3.38 | 3.87 | 2.72 | 3.76 |
| 27          | 3.61 | 3.46 | 3.29 | 3.26 | 3.60 | 3.99 | 3.53 | 3.55 | 3.40 | 3.82 | 2.70 | 3.77 |
| 28          | 3.63 | 3.44 | 3.32 | 3.23 | 3.61 | 3.17 | 3.52 | 3.49 | 3.37 | 3.39 | 2.72 | 3.78 |
| 29          | 3.60 | 3.42 | 3.40 | 3.22 | ---  | 3.69 | 3.52 | 3.45 | 3.48 | 3.03 | 2.76 | 3.79 |
| 30          | 3.59 | 3.41 | 3.39 | 3.23 | ---  | 3.54 | 3.51 | 3.42 | 3.22 | 3.00 | 2.96 | 3.84 |
| 31          | 3.57 | ---  | 3.37 | 3.23 | ---  | 2.94 | ---  | 3.39 | ---  | 2.85 | 3.30 | ---  |
| MEAN        | 3.58 | 3.44 | 3.41 | 3.13 | 3.47 | 3.59 | 3.15 | 3.60 | 3.47 | 2.72 | 2.82 | 2.94 |
| MAX         | 4.06 | 3.62 | 3.72 | 3.47 | 3.77 | 4.17 | 3.72 | 4.11 | 4.03 | 4.01 | 3.30 | 3.84 |
| MIN         | 3.28 | 2.61 | 3.29 | 2.52 | 3.18 | 2.94 | 2.19 | 3.39 | 3.14 | 1.90 | 2.47 | 2.22 |
|             |      |      |      |      |      |      |      |      |      |      |      |      |
| CAL YR 1985 | MEAN | 3.63 | MAX  | 4.69 | MIN  | 2.61 |      |      |      |      |      |      |
| WTR YR 1986 | MEAN | 3.28 | MAX  | 4.17 | MIN  | 1.90 |      |      |      |      |      |      |



## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02285001 NORTH NEW RIVER CANAL BELOW CONTROL NEAR FORT LAUDERDALE, FL

LOCATION.--Lat 26°05'39", long 80°13'50", in SW¼ sec.14, T.50 S., R.41 E., Broward County, Hydrologic Unit 03090202, on left bank downstream side of salinity-control structure on State Highway 84, and 6 mi southwest of Fort Lauderdale.

DRAINAGE.--Indeterminate.

PERIOD OF RECORD.--October 1943 to July 1947 (fragmentary), August 1974 to current year (gage heights). Record of gage heights prior to October 1962 are available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Aug. 1, 1947 to July 20, 1950, water-stage recorder at site 300 ft downstream at same datum.

REMARKS.--Stage is basically tidal but is occasionally affected by operation of salinity-control structure during high flow. The stage record published is the maximum and minimum tide event for each calendar day.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 10.56 ft Oct. 19, 1947; minimum -1.33 ft Dec. 31, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.28 ft Mar. 27; minimum -0.65 ft Mar. 9.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
TIDAL HIGH VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | ---  | 2.34 | 1.49 | ---  | ---  | 1.89 | 2.14 | 1.70 | ---  | 1.83 | 1.89 | 2.14 |
| 2    | ---  | 2.18 | 1.42 | ---  | ---  | 1.43 | 2.10 | 1.69 | ---  | 1.83 | 1.89 | 2.51 |
| 3    | ---  | 2.05 | 1.42 | ---  | ---  | 1.23 | 2.11 | 1.71 | ---  | 1.94 | 1.87 | 2.49 |
| 4    | ---  | 1.88 | 1.56 | ---  | ---  | 1.20 | 2.01 | 1.87 | ---  | 1.95 | 1.81 | 2.69 |
| 5    | ---  | 1.79 | 1.70 | ---  | ---  | 1.12 | 1.96 | 1.97 | 1.92 | 2.06 | 1.82 | 2.95 |
| 6    | ---  | 1.73 | 1.74 | ---  | ---  | 1.19 | 1.86 | 1.86 | 2.00 | 2.14 | 1.88 | 2.67 |
| 7    | ---  | ---  | 1.72 | ---  | ---  | 1.16 | 2.03 | 1.89 | 1.97 | 2.10 | 1.84 | 2.70 |
| 8    | 2.25 | 1.90 | 1.92 | ---  | ---  | 1.24 | 2.16 | 1.94 | 1.87 | 1.98 | 1.83 | 2.64 |
| 9    | 2.36 | 1.98 | 2.01 | ---  | ---  | 1.18 | 2.32 | 2.05 | 1.82 | 1.99 | 1.85 | 2.75 |
| 10   | 2.30 | 2.11 | 2.01 | ---  | ---  | 1.25 | 2.18 | 2.05 | 1.69 | 1.99 | 1.75 | 2.51 |
| 11   | 2.48 | 2.16 | 2.00 | ---  | ---  | 1.19 | 2.03 | 2.03 | 1.65 | ---  | 2.03 | 2.39 |
| 12   | 2.52 | 2.06 | 2.07 | ---  | ---  | 1.27 | 1.98 | 1.95 | 1.60 | ---  | 2.03 | 2.23 |
| 13   | 2.55 | 2.07 | 1.89 | ---  | ---  | 1.10 | 1.90 | 1.99 | 1.62 | ---  | 1.88 | 2.27 |
| 14   | 2.52 | 1.96 | 1.74 | ---  | ---  | 1.12 | 1.86 | 2.12 | 1.55 | ---  | 1.92 | 2.22 |
| 15   | 2.53 | 1.90 | 1.78 | ---  | ---  | .96  | 1.75 | 2.14 | 1.90 | ---  | 2.01 | 2.39 |
| 16   | 2.65 | 1.77 | 1.62 | ---  | ---  | 1.01 | 1.47 | 2.14 | 1.88 | ---  | 2.13 | 2.51 |
| 17   | 2.48 | 1.64 | 1.70 | ---  | ---  | 1.10 | 1.50 | 2.08 | 1.92 | ---  | 2.25 | 2.51 |
| 18   | 2.43 | 2.18 | 1.58 | ---  | ---  | .92  | 1.34 | 2.20 | 1.99 | 2.09 | 2.20 | 2.37 |
| 19   | 2.24 | 2.30 | 1.54 | ---  | 1.13 | .91  | 1.47 | 2.19 | 2.36 | 2.02 | 2.26 | 2.25 |
| 20   | 2.30 | 1.96 | 1.45 | ---  | 1.36 | .92  | 1.79 | 2.17 | 2.59 | 2.31 | 2.13 | 2.24 |
| 21   | 2.41 | 1.70 | 1.39 | .89  | 1.54 | 1.26 | 2.09 | 2.44 | 2.56 | 2.29 | 2.06 | 2.22 |
| 22   | 2.34 | 1.66 | ---  | 1.06 | 1.60 | 1.45 | 2.03 | 2.50 | 2.46 | 2.26 | 1.88 | 2.36 |
| 23   | 2.38 | 1.61 | ---  | 1.16 | 1.95 | 1.76 | 2.16 | 2.25 | 2.45 | 1.82 | 1.78 | 2.18 |
| 24   | 2.29 | 1.72 | ---  | 1.36 | 2.01 | 1.98 | 2.22 | ---  | 2.46 | 1.87 | 1.85 | 2.07 |
| 25   | 2.37 | 1.87 | ---  | 1.50 | 1.98 | 2.28 | 2.22 | ---  | 2.21 | 1.91 | 1.88 | 1.77 |
| 26   | 2.59 | 1.85 | ---  | 1.76 | 2.06 | 3.82 | 2.23 | ---  | 2.17 | 1.86 | 1.93 | 1.48 |
| 27   | 2.59 | 1.84 | ---  | 1.80 | 2.05 | 4.28 | 2.13 | ---  | 2.11 | 1.86 | 1.91 | 1.23 |
| 28   | 2.61 | 1.80 | ---  | 1.37 | 1.94 | 3.42 | 1.97 | ---  | 2.03 | 1.88 | 1.76 | 1.38 |
| 29   | 2.53 | 1.64 | ---  | ---  | ---  | 2.58 | 1.83 | ---  | 1.88 | 1.98 | 1.97 | 1.56 |
| 30   | 2.53 | 1.49 | ---  | ---  | ---  | 2.37 | 1.78 | ---  | 1.80 | 1.89 | 1.98 | 1.74 |
| 31   | 2.38 | ---  | ---  | ---  | ---  | 2.24 | ---  | ---  | ---  | 1.85 | 2.06 | ---  |
| MEAN | ---  | ---  | ---  | ---  | ---  | 1.64 | 1.95 | ---  | ---  | ---  | 1.95 | 2.25 |
| MAX  | ---  | ---  | ---  | ---  | ---  | 4.28 | 2.32 | ---  | ---  | ---  | 2.26 | 2.95 |
| MIN  | ---  | ---  | ---  | ---  | ---  | .91  | 1.34 | ---  | ---  | ---  | 1.75 | 1.23 |

## EVERGLADES AND SOUTHERN COASTAL AREA

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02285001 NORTH NEW RIVER CANAL BELOW CONTROL NEAR FORT LAUDERDALE, FL  
 GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
 TIDAL LOW VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY | JUN  | JUL  | AUG | SEP  |
|------|------|------|------|------|------|------|------|-----|------|------|-----|------|
| 1    | ---  | .91  | -.11 | ---  | ---  | -.28 | 1.12 | .11 | ---  | .33  | .87 | .88  |
| 2    | ---  | .81  | -.15 | ---  | ---  | -.39 | 1.19 | .12 | ---  | .52  | .73 | 1.15 |
| 3    | ---  | .65  | -.03 | ---  | ---  | -.44 | 1.15 | .16 | ---  | .73  | .60 | 1.22 |
| 4    | ---  | .64  | .08  | ---  | ---  | -.53 | 1.13 | .28 | ---  | .68  | .94 | 1.30 |
| 5    | ---  | .38  | .41  | ---  | ---  | -.52 | .95  | .45 | ---  | .99  | .48 | 1.37 |
| 6    | ---  | ---  | .21  | ---  | ---  | -.40 | .84  | .13 | .27  | .68  | .61 | 1.32 |
| 7    | ---  | ---  | .18  | ---  | ---  | -.61 | .88  | .10 | .13  | .72  | .64 | 1.44 |
| 8    | ---  | ---  | .18  | ---  | ---  | -.50 | 1.03 | .12 | .25  | .66  | .60 | 1.36 |
| 9    | .99  | .35  | .17  | ---  | ---  | -.65 | 1.22 | .18 | .00  | .65  | .51 | 1.53 |
| 10   | .98  | .26  | .05  | ---  | ---  | -.52 | .47  | .43 | .05  | .89  | .52 | 1.35 |
| 11   | .94  | .17  | -.07 | ---  | ---  | ---  | .36  | .41 | .06  | ---  | .94 | 1.22 |
| 12   | .93  | -.02 | -.08 | ---  | ---  | -.39 | .36  | .36 | .00  | ---  | .79 | 1.01 |
| 13   | .81  | -.11 | -.10 | ---  | ---  | -.46 | .51  | .55 | .26  | ---  | .67 | 1.04 |
| 14   | .76  | -.19 | -.11 | ---  | ---  | -.38 | .39  | .66 | .10  | ---  | .67 | 1.01 |
| 15   | .60  | -.10 | -.12 | ---  | ---  | -.35 | .24  | .79 | .36  | ---  | .71 | 1.14 |
| 16   | .69  | .07  | -.16 | ---  | ---  | -.19 | .12  | .69 | .57  | ---  | .68 | 1.23 |
| 17   | .56  | .08  | .18  | ---  | ---  | -.22 | .12  | .82 | .23  | ---  | .88 | 1.18 |
| 18   | .67  | .09  | .13  | ---  | ---  | -.34 | .04  | .79 | .17  | .67  | .83 | 1.04 |
| 19   | .63  | .73  | .13  | ---  | ---  | -.27 | .07  | .54 | .24  | .57  | .84 | .90  |
| 20   | .71  | .44  | .11  | ---  | -.07 | -.21 | .15  | .35 | 1.10 | .76  | .74 | .86  |
| 21   | 1.02 | .33  | ---  | ---  | -.01 | -.20 | .38  | .37 | .91  | .79  | .65 | .94  |
| 22   | .96  | .22  | ---  | -.31 | -.03 | .17  | .19  | .71 | .62  | -.05 | .57 | 1.07 |
| 23   | 1.10 | .27  | ---  | -.30 | .05  | .13  | .14  | --- | .73  | .05  | .54 | .86  |
| 24   | .95  | .29  | ---  | -.25 | .26  | .25  | .02  | --- | .34  | .23  | .55 | .57  |
| 25   | .88  | .29  | ---  | -.08 | .01  | .38  | .08  | --- | .44  | .27  | .69 | .48  |
| 26   | .97  | .21  | ---  | .02  | .24  | .59  | .02  | --- | .45  | .36  | .78 | .28  |
| 27   | 1.07 | .11  | ---  | .08  | .14  | 3.21 | -.09 | --- | .63  | .26  | .78 | -.13 |
| 28   | 1.07 | .14  | ---  | ---  | .09  | 1.44 | -.09 | --- | .53  | .32  | .73 | -.06 |
| 29   | 1.01 | .02  | ---  | ---  | ---  | 1.10 | -.02 | --- | .45  | .71  | .87 | .08  |
| 30   | 1.02 | -.11 | ---  | ---  | ---  | .96  | .06  | --- | .57  | .77  | .97 | .12  |
| 31   | .91  | ---  | ---  | ---  | ---  | .82  | ---  | --- | ---  | .80  | .94 | ---  |
| MEAN | ---  | ---  | ---  | ---  | ---  | ---  | .43  | --- | ---  | ---  | .72 | .93  |
| MAX  | ---  | ---  | ---  | ---  | ---  | ---  | 1.22 | --- | ---  | ---  | .97 | 1.53 |
| MIN  | ---  | ---  | ---  | ---  | ---  | ---  | -.09 | --- | ---  | ---  | .48 | -.13 |

## 02286100 SOUTH NEW RIVER CANAL AT S-13, NEAR DAVIE, FL

LOCATION.--Lat 26°03'57", long 80°12'32", in SW¼ sec.25, T.50 S., R.41 E., Broward County, Hydrologic Unit 03090202, 18 ft from north bank, 150 ft upstream from pump station 13, 300 ft west of U.S. Highway 441, and 1.5 mi east of Davie.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1957 to current year.

GAGE.--Dual water-stage recorder, and gate-opening recorder. Prior to September 30, 1984, deflection vane and prior to September 30, 1985, electromagnetic velocity meter at same site. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair, except those for estimated daily discharges, which are poor. Flow is affected by tide and is occasionally reversed. Negative figures indicate reverse flow. Flow is regulated by pumpage and operation of gate at S-13. Flow is affected by regulation of control-structure 13A 5 miles upstream and by upstream withdrawals from the canal during the growing season and pumpage into the canal during high water. Discharge is computed from relation between head and gate-opening at S-13.

COOPERATION.--Gate-opening and pump records provided by South Florida Water Management District.

AVERAGE DISCHARGE.--29 years, 174 ft<sup>3</sup>/s, 126,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,490 ft<sup>3</sup>/s May 23, 1986 (estimated); maximum gage height, 4.02 ft Apr. 25, 1979; maximum reverse flow, 657 ft<sup>3</sup>/s Sept. 12, 1962; no flow for some days in most years; minimum gage height, -0.79 ft July 14, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,490 ft<sup>3</sup>/s May 23 (estimated); maximum gage height, 3.29 ft Mar. 27; no flow for some days during the year; minimum gage height, -0.02 ft June 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB    | MAR     | APR    | MAY     | JUN     | JUL   | AUG   | SEP     |
|-------|------|------|------|------|--------|---------|--------|---------|---------|-------|-------|---------|
| 1     | 123  | 64   | 53   | 53   | e20    | 22      | 590    | .00     | e 20    | e 85  | e437  | e 25    |
| 2     | 238  | 83   | 37   | 39   | e20    | 37      | 603    | .00     | e 20    | e 85  | e100  | e375    |
| 3     | 401  | 66   | 54   | 53   | e20    | 27      | 592    | 33      | e 20    | e 90  | e175  | e205    |
| 4     | 230  | 96   | 116  | 45   | e20    | 28      | 487    | .00     | e 50    | e 80  | e135  | e406    |
| 5     | 143  | 73   | 137  | 74   | e20    | 47      | 136    | 84      | 59      | e 80  | e150  | e328    |
| 6     | 127  | 49   | 161  | 16   | e15    | 18      | 115    | 91      | .00     | e 75  | e100  | e 25    |
| 7     | 344  | 52   | 98   | 258  | e25    | .00     | 383    | 62      | 35      | e195  | e 50  | e 50    |
| 8     | 312  | 55   | 94   | 490  | e25    | 16      | 341    | .00     | 81      | e 60  | e100  | e227    |
| 9     | 108  | 45   | 68   | e300 | e25    | .00     | 378    | 62      | 143     | e 60  | e100  | e195    |
| 10    | 235  | 44   | 86   | e400 | e25    | 90      | 77     | 140     | e103    | e 60  | e 75  | e245    |
| 11    | 199  | 55   | 70   | e500 | e25    | 100     | 86     | 110     | e 85    | e281  | e477  | e368    |
| 12    | 85   | 58   | 50   | e400 | e20    | 87      | 76     | 97      | e 85    | e 50  | e300  | e415    |
| 13    | 95   | 58   | 65   | e300 | e20    | 88      | 96     | 71      | e 92    | e 70  | e207  | e 40    |
| 14    | 110  | 57   | 78   | e100 | e15    | 86      | 190    | 76      | e 89    | e200  | e160  | e 45    |
| 15    | 103  | 36   | 72   | e150 | e .00  | 93      | 345    | 69      | e 68    | e200  | e515  | e258    |
| 16    | 85   | 128  | 61   | e170 | e25    | 220     | 78     | 66      | e150    | e200  | e 50  | e513    |
| 17    | 89   | 100  | 93   | e150 | e .00  | 186     | 58     | 53      | e307    | e306  | e457  | e271    |
| 18    | 83   | 214  | 60   | e150 | e75    | 109     | 39     | 35      | e125    | e300  | e274  | e328    |
| 19    | 102  | 109  | 62   | e150 | e25    | 157     | 41     | 39      | e100    | e 85  | e445  | e345    |
| 20    | 103  | 13   | 33   | e 85 | e40    | 177     | 34     | 35      | e138    | e 85  | e229  | e 13    |
| 21    | 186  | 55   | 58   | e 85 | e20    | 185     | 51     | 273     | e468    | e 80  | e184  | e 50    |
| 22    | 61   | 96   | 46   | e 85 | e40    | 130     | 36     | e 279   | e353    | e 95  | e150  | e226    |
| 23    | 196  | 101  | 69   | e125 | e40    | 102     | 1.4    | e1490   | e342    | e370  | e 50  | e542    |
| 24    | 171  | 88   | 40   | e150 | e40    | 77      | 31     | e 857   | e625    | e510  | e 50  | e262    |
| 25    | 30   | 83   | 70   | e180 | e15    | 75      | 31     | e 819   | e305    | e289  | e100  | e303    |
| 26    | 60   | 78   | 47   | e160 | e15    | 248     | 26     | e 877   | e160    | e100  | e 75  | e394    |
| 27    | 54   | 54   | 31   | e100 | 31     | 638     | 32     | e 154   | e300    | e 50  | e261  | e .00   |
| 28    | 57   | 65   | 80   | e 75 | 31     | 585     | 19     | e 519   | e 75    | e259  | e284  | e 75    |
| 29    | 78   | 64   | 76   | e 40 | ---    | 579     | 12     | e 214   | e 60    | e207  | e370  | e 23    |
| 30    | 66   | 54   | 65   | e 40 | ---    | 498     | 33     | e 95    | e271    | e343  | e 30  | e 37    |
| 31    | 77   | ---  | 50   | e 25 | ---    | 536     | ---    | e 25    | ---     | e280  | e 30  | ---     |
| TOTAL | 4351 | 2193 | 2180 | 4948 | 692.00 | 5241.00 | 5017.4 | 6725.00 | 4729.00 | 5230  | 6120  | 6589.00 |
| MEAN  | 140  | 73.1 | 70.3 | 160  | 24.7   | 169     | 167    | 217     | 158     | 169   | 197   | 220     |
| MAX   | 401  | 214  | 161  | 500  | 75     | 638     | 603    | 1490    | 625     | 510   | 515   | 542     |
| MIN   | 30   | 13   | 31   | 16   | .00    | .00     | 1.4    | .00     | .00     | 50    | 30    | .00     |
| AC-FT | 8630 | 4350 | 4320 | 9810 | 1370   | 10400   | 9950   | 13340   | 9380    | 10370 | 12140 | 13070   |

CAL YR 1985 TOTAL 36773.70 MEAN 101 MAX 777 MIN .00 AC-FT 72940  
WTR YR 1986 TOTAL 54015.40 MEAN 148 MAX 1490 MIN .00 AC-FT 107100

e Estimated

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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02286100 SOUTH NEW RIVER CANAL AT S-13, NEAR DAVIE, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1           | 1.85 | 1.68 | 1.61 | 1.62 | 1.55 | 1.66 | 1.15 | 1.64 | 1.60 | 1.35 | 1.32 | 1.59 |
| 2           | 1.54 | 1.59 | 1.60 | 1.60 | 1.54 | 1.63 | 1.22 | 1.69 | 1.59 | 1.44 | 1.58 | 1.47 |
| 3           | 1.00 | 1.60 | 1.56 | 1.56 | 1.52 | 1.62 | 1.08 | 1.59 | 1.62 | 1.32 | 1.56 | 1.50 |
| 4           | .66  | 1.57 | 1.53 | 1.59 | 1.49 | 1.62 | 1.16 | 1.63 | 1.37 | 1.54 | 1.38 | 1.33 |
| 5           | 1.65 | 1.61 | 1.57 | 1.55 | 1.43 | 1.62 | 1.57 | 1.51 | 1.37 | 1.55 | 1.28 | 1.37 |
| 6           | 1.66 | 1.61 | 1.30 | 1.60 | 1.50 | 1.56 | 1.56 | 1.41 | 1.59 | 1.57 | 1.37 | 1.68 |
| 7           | 1.44 | 1.57 | 1.57 | 1.53 | 1.61 | 1.69 | 1.50 | 1.39 | 1.66 | 1.21 | 1.29 | 1.83 |
| 8           | .62  | 1.59 | 1.57 | 1.16 | 1.61 | 1.66 | 1.46 | 1.62 | 1.30 | 1.57 | 1.44 | 1.48 |
| 9           | 1.74 | 1.61 | 1.57 | 1.23 | 1.60 | 1.70 | 1.37 | 1.60 | 1.47 | 1.54 | 1.53 | 1.34 |
| 10          | 1.32 | 1.62 | 1.57 | 1.67 | 1.61 | 1.59 | 1.60 | 1.65 | 1.48 | 1.48 | 1.56 | 1.51 |
| 11          | 1.32 | 1.60 | 1.58 | .97  | 1.62 | 1.57 | 1.55 | 1.63 | 1.45 | 1.23 | .78  | 1.45 |
| 12          | 1.68 | 1.60 | 1.61 | .62  | 1.58 | 1.59 | 1.57 | 1.59 | 1.43 | 1.56 | .73  | 1.35 |
| 13          | 1.75 | 1.60 | 1.58 | 1.53 | 1.53 | 1.51 | 1.57 | 1.59 | 1.53 | 1.60 | 1.44 | 1.56 |
| 14          | 1.67 | 1.60 | 1.57 | 1.65 | 1.52 | 1.48 | 1.38 | 1.57 | 1.52 | 1.32 | 1.16 | 1.58 |
| 15          | 1.60 | 1.60 | 1.58 | 1.53 | 1.67 | 1.61 | 1.34 | 1.59 | 1.57 | 1.36 | 1.30 | 1.57 |
| 16          | 1.63 | 1.54 | 1.59 | 1.52 | 1.64 | 1.51 | 1.56 | 1.60 | 1.41 | 1.32 | 1.62 | 1.31 |
| 17          | 1.61 | 1.56 | 1.55 | 1.54 | 1.67 | 1.51 | 1.46 | 1.61 | 1.19 | 1.21 | 1.16 | 1.58 |
| 18          | 1.61 | 1.00 | 1.58 | 1.55 | 1.48 | 1.49 | 1.60 | 1.62 | 1.34 | 1.45 | 1.39 | 1.29 |
| 19          | 1.62 | .50  | 1.59 | 1.56 | 1.60 | 1.53 | 1.59 | 1.63 | 1.64 | 1.57 | 1.27 | 1.31 |
| 20          | 1.69 | 1.45 | 1.62 | 1.58 | 1.57 | 1.49 | 1.63 | 1.64 | 1.46 | 1.58 | 1.33 | 1.62 |
| 21          | 1.20 | 1.58 | 1.61 | 1.48 | 1.61 | 1.48 | 1.60 | 1.61 | .65  | 1.57 | 1.36 | 1.61 |
| 22          | 1.67 | 1.59 | 1.60 | 1.40 | 1.59 | 1.55 | 1.62 | 1.48 | .46  | 1.56 | 1.41 | 1.22 |
| 23          | 1.20 | 1.56 | 1.59 | 1.55 | 1.61 | 1.57 | 1.70 | 1.42 | .49  | 1.47 | 1.54 | 1.27 |
| 24          | 1.17 | 1.56 | 1.59 | 1.60 | 1.60 | 1.59 | 1.62 | 1.45 | .41  | 1.24 | 1.57 | 1.33 |
| 25          | 1.66 | 1.55 | 1.57 | 1.58 | 1.62 | 1.62 | 1.60 | 1.43 | .27  | 1.29 | 1.50 | 1.30 |
| 26          | 1.68 | 1.57 | 1.61 | 1.58 | 1.62 | 1.68 | 1.63 | 1.44 | .73  | 1.57 | 1.62 | 1.13 |
| 27          | 1.76 | 1.60 | 1.60 | 1.62 | 1.60 | 2.52 | 1.60 | 1.46 | 1.14 | 1.56 | 1.29 | 1.56 |
| 28          | 1.78 | 1.59 | 1.56 | 1.59 | 1.63 | 1.71 | 1.64 | 1.43 | 1.63 | 1.25 | 1.39 | 1.52 |
| 29          | 1.81 | 1.60 | 1.56 | 1.58 | ---  | .72  | 1.67 | 1.40 | 1.62 | 1.36 | 1.33 | 1.61 |
| 30          | 1.78 | 1.61 | 1.59 | 1.59 | ---  | .45  | 1.59 | 1.51 | 1.12 | 1.37 | 1.59 | 1.60 |
| 31          | 1.68 | ---  | 1.61 | 1.58 | ---  | .37  | ---  | 1.65 | ---  | 1.34 | 1.59 | ---  |
| MEAN        | 1.52 | 1.53 | 1.57 | 1.49 | 1.58 | 1.51 | 1.51 | 1.55 | 1.27 | 1.43 | 1.38 | 1.46 |
| MAX         | 1.85 | 1.68 | 1.62 | 1.67 | 1.67 | 2.52 | 1.70 | 1.69 | 1.66 | 1.60 | 1.62 | 1.83 |
| MIN         | .62  | .50  | 1.30 | .62  | 1.43 | .37  | 1.08 | 1.39 | .27  | 1.21 | .73  | 1.13 |
| CAL YR 1985 | MEAN | 1.57 | MAX  | 2.37 | MIN  | .20  |      |      |      |      |      |      |
| WTR YR 1986 | MEAN | 1.48 | MAX  | 2.52 | MIN  | .27  |      |      |      |      |      |      |

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286101 SOUTH NEW RIVER CANAL BELOW S-13, NEAR DAVIE, FL

LOCATION.--Lat 26°03'57", long 80°12'32", in SW¼ sec.25, T.50 S., R.41 E., Broward County, Hydrologic Unit 03090202, at pump station 13, 150 ft west of U.S. Highway 441, and 1.5 mi east of Davie.

PERIOD OF RECORD.--January 1955 to current year (gage heights). Records of gage heights prior to October 1962 are available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Gage records water levels below pump station 13. Stage is basically tidal, but at times is affected by gate operation and pumping at S-13. The stage record published is the maximum and minimum tide event for each calendar day.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 3.98 ft Sept. 8, 1965; minimum -1.97 ft Apr. 28, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 3.14 ft Mar. 27; minimum -0.64 ft Feb. 7, Mar. 9.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
TIDAL HIGH VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 2.44 | 2.29 | 1.52 | 1.41 | 1.26 | 1.90 | 2.06 | 1.71 | 2.01 | 1.56 | 1.37 | 1.84 |
| 2    | 2.59 | 2.18 | 1.45 | 1.32 | 1.15 | 1.45 | 2.01 | 1.73 | 1.87 | 1.51 | 1.49 | 2.15 |
| 3    | 2.36 | 2.01 | 1.44 | 1.31 | 1.10 | 1.24 | 2.05 | 1.69 | 1.83 | 1.60 | 1.28 | 2.19 |
| 4    | 2.12 | 1.90 | 1.58 | 1.36 | 1.22 | 1.21 | 1.94 | 1.91 | 1.72 | 1.72 | 1.34 | 2.42 |
| 5    | 1.87 | 1.71 | 1.71 | 1.42 | 1.17 | 1.14 | 1.74 | 1.93 | 1.90 | 1.71 | 1.41 | 2.60 |
| 6    | 1.88 | 1.75 | 1.78 | 1.47 | 1.21 | 1.22 | 1.69 | 1.86 | 1.94 | 2.02 | 1.43 | 2.54 |
| 7    | 2.27 | 1.78 | 1.71 | 1.81 | 1.17 | 1.17 | 1.82 | 1.89 | 1.83 | 1.79 | 1.41 | 2.57 |
| 8    | 2.29 | 1.90 | 1.94 | 2.02 | 1.35 | 1.20 | 2.05 | 1.94 | 1.82 | 1.81 | 1.42 | 2.45 |
| 9    | 2.30 | 1.99 | 2.03 | 2.19 | 1.26 | 1.17 | 2.15 | 2.06 | 1.77 | 1.82 | 1.38 | 2.49 |
| 10   | 2.23 | 2.14 | 2.04 | 2.51 | 1.40 | 1.26 | 2.13 | 2.05 | 1.66 | 1.87 | 1.46 | 2.27 |
| 11   | 2.41 | 2.16 | 2.01 | 2.45 | 1.36 | 1.20 | 2.03 | 2.06 | 1.65 | 1.77 | 1.78 | 2.05 |
| 12   | 2.46 | 2.08 | 2.04 | 2.39 | 1.26 | 1.26 | 2.02 | 1.97 | 1.59 | 1.75 | 1.80 | 1.82 |
| 13   | 2.53 | 2.08 | 1.91 | 2.40 | 1.18 | 1.11 | 1.95 | 2.02 | 1.63 | 1.66 | 1.57 | 1.88 |
| 14   | 2.49 | 1.96 | 1.77 | 2.00 | 1.29 | 1.15 | 1.94 | 2.16 | 1.53 | 1.46 | 1.47 | 1.88 |
| 15   | 2.48 | 1.92 | 1.81 | 1.78 | 1.17 | .99  | 1.78 | 2.18 | 1.67 | 1.29 | 1.54 | 2.03 |
| 16   | 2.60 | 1.79 | 1.64 | 1.66 | 1.28 | 1.06 | 1.49 | 2.19 | 1.70 | 1.43 | 1.74 | 2.30 |
| 17   | 2.41 | 1.66 | 1.67 | 1.56 | 1.31 | 1.11 | 1.54 | 2.11 | 1.75 | 1.53 | 2.02 | 2.35 |
| 18   | 2.41 | 1.96 | 1.61 | 1.40 | 1.22 | .95  | 1.37 | 2.19 | 1.83 | 1.72 | 1.92 | 2.23 |
| 19   | 2.18 | 2.16 | 1.56 | 1.51 | 1.30 | .93  | 1.49 | 2.19 | 2.32 | 1.65 | 1.92 | 2.14 |
| 20   | 2.24 | 1.97 | 1.48 | 1.32 | 1.38 | .94  | 1.83 | 2.14 | 2.57 | 2.12 | 1.87 | 1.98 |
| 21   | 2.33 | 1.72 | 1.43 | 1.06 | 1.49 | 1.22 | 2.03 | 2.49 | 2.59 | 2.07 | 1.83 | 1.97 |
| 22   | 2.29 | 1.69 | 1.43 | 1.11 | 1.64 | 1.48 | 1.99 | 2.41 | 2.43 | 1.96 | 1.51 | 2.24 |
| 23   | 2.34 | 1.65 | 1.48 | 1.23 | 2.00 | 1.79 | 2.19 | 2.32 | 2.40 | 1.87 | 1.50 | 2.14 |
| 24   | 2.26 | 1.75 | 1.73 | 1.46 | 2.03 | 2.01 | 2.18 | 2.19 | 2.36 | 1.91 | 1.36 | 2.05 |
| 25   | 2.34 | 1.88 | 1.57 | 1.56 | 2.03 | 2.32 | 2.26 | 2.10 | 2.29 | 1.93 | 1.48 | 1.77 |
| 26   | 2.52 | 1.86 | 1.18 | 1.86 | 2.08 | 3.11 | 2.18 | 2.10 | 2.17 | 1.81 | 1.61 | 1.39 |
| 27   | 2.57 | 1.83 | 1.33 | 1.90 | 2.07 | 3.14 | 2.15 | 2.10 | 2.11 | 1.63 | 1.67 | 1.07 |
| 28   | 2.59 | 1.81 | 1.43 | 1.43 | 1.95 | 2.92 | 1.99 | 2.00 | 1.98 | 1.74 | 1.39 | 1.09 |
| 29   | 2.50 | 1.67 | 1.38 | 1.57 | ---  | 2.58 | 1.84 | 1.91 | 1.87 | 1.64 | 1.53 | 1.27 |
| 30   | 2.52 | 1.51 | 1.49 | 1.52 | ---  | 2.31 | 1.81 | 1.96 | 1.72 | 1.45 | 1.60 | 1.48 |
| 31   | 2.35 | ---  | 1.51 | 1.38 | ---  | 2.22 | ---  | 1.99 | ---  | 1.39 | 1.80 | ---  |
| MEAN | 2.36 | 1.89 | 1.63 | 1.66 | 1.44 | 1.57 | 1.92 | 2.05 | 1.95 | 1.72 | 1.58 | 2.02 |
| MAX  | 2.60 | 2.29 | 2.04 | 2.51 | 2.08 | 3.14 | 2.26 | 2.49 | 2.59 | 2.12 | 2.02 | 2.60 |
| MIN  | 1.87 | 1.51 | 1.18 | 1.06 | 1.10 | .93  | 1.37 | 1.69 | 1.53 | 1.29 | 1.28 | 1.07 |

CAL YR 1985 MEAN .43 MAX 2.60 MIN -1.10  
WTR YR 1986 MEAN 1.82 MAX 3.14 MIN .93



## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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02286101 SOUTH NEW RIVER CANAL BELOW S-13, NEAR DAVIE, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
TIDAL LOW VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | .93  | .85  | -.07 | -.15 | -.38 | -.22 | .96  | .10  | .34  | .35  | .42  | .13  |
| 2    | 1.05 | .75  | -.14 | -.20 | -.54 | -.35 | .98  | .15  | .26  | .05  | -.03 | .65  |
| 3    | 1.04 | .61  | -.02 | -.20 | -.45 | -.40 | .92  | .16  | .19  | .22  | -.25 | .46  |
| 4    | .77  | .60  | .05  | -.21 | -.45 | -.49 | .65  | .31  | .08  | .15  | -.24 | .61  |
| 5    | .75  | .31  | .47  | -.34 | -.54 | -.45 | .34  | .38  | .03  | .16  | -.36 | .67  |
| 6    | .72  | .32  | .18  | -.37 | -.57 | -.36 | .34  | .14  | -.04 | .06  | -.29 | .95  |
| 7    | .71  | .36  | .22  | -.17 | -.64 | -.56 | .23  | .08  | -.20 | .12  | -.29 | .97  |
| 8    | 1.13 | .43  | .22  | .64  | -.52 | -.46 | .43  | .08  | .39  | .07  | -.33 | .91  |
| 9    | 1.01 | .36  | .20  | .39  | -.60 | -.64 | .56  | .12  | -.27 | .08  | -.35 | .92  |
| 10   | 1.10 | .30  | .09  | 1.02 | -.49 | -.48 | .45  | .53  | -.21 | .04  | -.22 | .90  |
| 11   | .83  | .18  | .05  | .93  | -.36 | -.45 | .39  | .35  | -.23 | .04  | .27  | .74  |
| 12   | .94  | -.02 | .06  | .74  | -.36 | -.36 | .43  | .35  | -.20 | .13  | .32  | .63  |
| 13   | .83  | -.07 | -.05 | .68  | -.43 | -.45 | .54  | .53  | .02  | .07  | .39  | .17  |
| 14   | .74  | -.14 | -.08 | .55  | -.18 | -.43 | .42  | .63  | -.01 | .11  | .34  | .14  |
| 15   | .56  | -.10 | .00  | .34  | -.18 | -.37 | .24  | .80  | .06  | .06  | .37  | .55  |
| 16   | .63  | .12  | -.14 | .30  | .02  | -.14 | .18  | .72  | .43  | .23  | -.23 | .44  |
| 17   | .55  | .08  | .23  | .22  | -.12 | -.19 | .18  | .91  | .40  | .11  | .01  | .30  |
| 18   | .64  | .16  | .14  | .20  | -.01 | -.30 | .03  | .90  | .16  | .20  | -.10 | .29  |
| 19   | .57  | .69  | .15  | .09  | .01  | -.25 | .12  | .55  | .06  | -.17 | -.05 | .24  |
| 20   | .70  | .45  | .09  | -.07 | -.03 | -.17 | .11  | .32  | .79  | .14  | -.13 | .17  |
| 21   | 1.01 | .27  | .09  | -.18 | .02  | -.18 | .40  | .23  | .48  | .16  | -.29 | .30  |
| 22   | .90  | .23  | .02  | -.29 | .08  | .03  | .17  | .65  | .45  | -.16 | -.43 | .52  |
| 23   | 1.10 | .28  | -.06 | -.33 | .11  | .16  | .20  | .20  | .40  | -.01 | -.36 | .57  |
| 24   | .94  | .28  | .11  | -.25 | .31  | .28  | -.02 | .10  | .19  | -.07 | -.21 | .56  |
| 25   | .88  | .30  | .01  | -.09 | .06  | .40  | .03  | .07  | .25  | .13  | .00  | .30  |
| 26   | 1.03 | .25  | -.34 | .14  | .28  | .67  | .09  | -.02 | .19  | .07  | .20  | .07  |
| 27   | 1.07 | .15  | -.41 | .11  | .19  | 2.01 | .05  | .18  | .26  | -.11 | .40  | -.45 |
| 28   | 1.05 | .16  | -.26 | -.17 | .23  | 1.33 | -.17 | .08  | .44  | .29  | .56  | -.29 |
| 29   | 1.05 | .05  | -.25 | -.18 | ---  | 1.00 | -.08 | .20  | .34  | .42  | .58  | -.25 |
| 30   | 1.04 | -.07 | -.22 | -.15 | ---  | .91  | -.01 | .34  | .48  | .45  | .23  | -.01 |
| 31   | .95  | ---  | -.19 | -.33 | ---  | .85  | ---  | .33  | ---  | .46  | .26  | ---  |
| MEAN | .88  | .27  | .00  | .09  | -.20 | .00  | .31  | .34  | .18  | .12  | .01  | .41  |
| MAX  | 1.13 | .85  | .47  | 1.02 | .31  | 2.01 | .98  | .91  | .79  | .46  | .58  | .97  |
| MIN  | .55  | -.14 | -.41 | -.37 | -.64 | -.64 | -.17 | -.02 | -.27 | -.17 | -.43 | -.45 |

WTR YR 1986 MEAN .20 MAX 2.01 MIN -.64

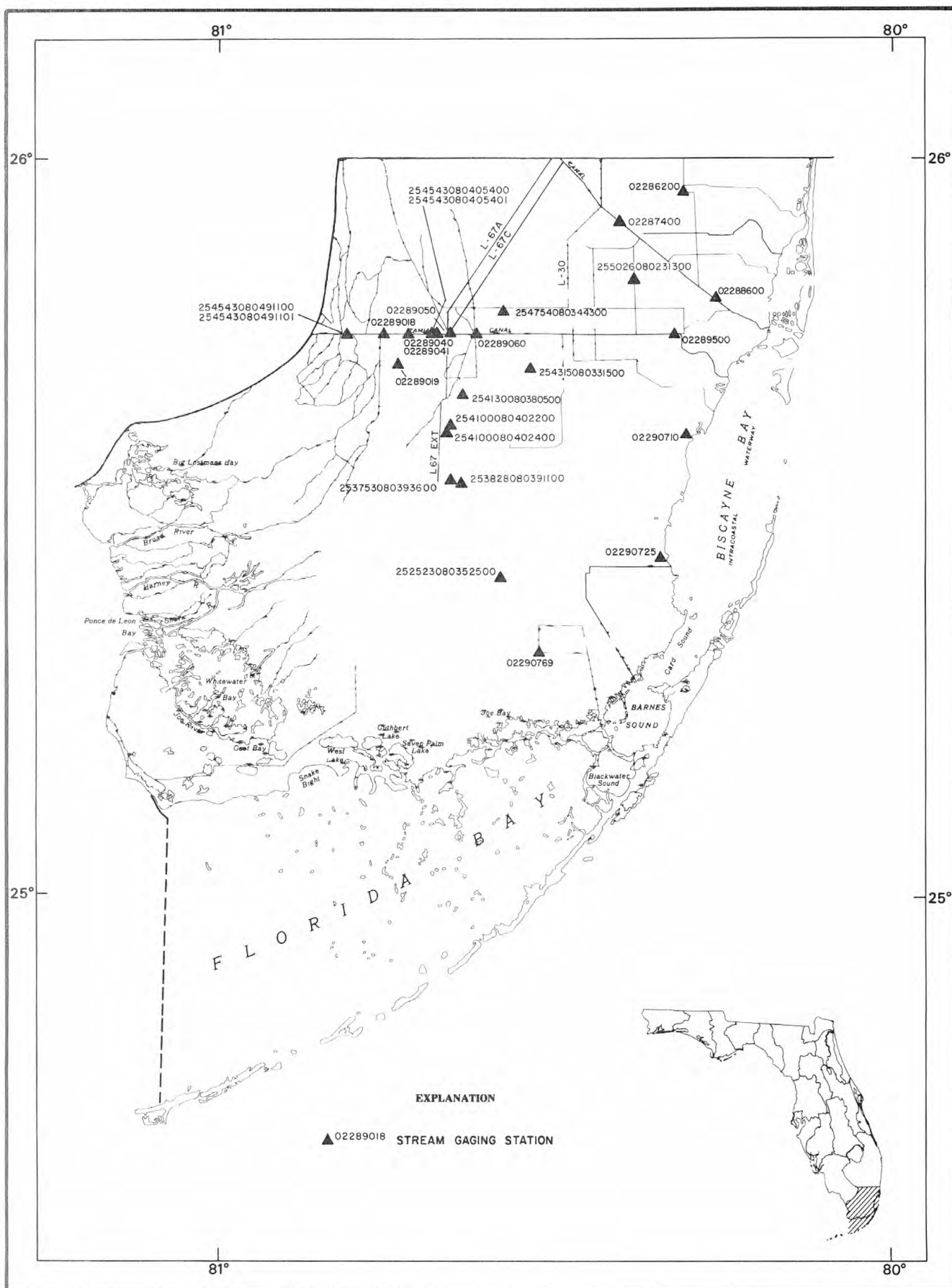


Figure 10. Location of gaging stations in the portion of the Everglades and southeastern coastal area south of latitude 26 degrees; Florida Bay and the Florida Keys

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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## 02286200 SNAKE CREEK CANAL AT NW 67TH AVENUE, NEAR HIALEAH, FL

LOCATION.--Lat 25°57'50", long 80°18'40", in SW¼ sec.36, T.51 S., R.40 E., Broward County, Hydrologic Unit 03090202, near center of span on downstream side of bridge at NW 67th Avenue, 6.0 mi north of Hialeah, Dade County, 10.9 mi upstream from salinity-control structure 29, and 11 mi upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1959 to February 1962 (gage heights), March 1962 to current year. Records of gage heights prior to March 1962 are available in files of the Geological Survey.

REVISED RECORDS.--WRD FL-74-2A: 1969.

GAGE.--Water-stage and electromagnetic velocity meter recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (State Department of Transportation bench mark). Prior to Oct. 1, 1975, at datum 0.28 ft lower. Nov. 1, 1959 to Mar. 15, 1962, water-stage recorder 10 ft downstream at datum 0.28 ft lower.

REMARKS.--Records fair, except for those estimated daily discharges, which are poor. Flow affected by regulation at salinity-control structure 29, at times by tide, and is occasionally reversed. Discharge computed from continuous velocity record obtained from recording electromagnetic velocity meter.

AVERAGE DISCHARGE.--24 years, 275 ft<sup>3</sup>/s, 199,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,550 ft<sup>3</sup>/s Mar. 10, 1969; maximum gage height, 4.53 ft Oct. 31, 1969; maximum daily reverse flow, 537 ft<sup>3</sup>/s Sept. 8, 1965, minimum gage height, 0.58 ft June 22, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 741 ft<sup>3</sup>/s June 13; maximum gage height, 3.32 ft March 27; minimum daily discharge, 7.9 ft<sup>3</sup>/s June 5; minimum gage height, 0.88 ft Jan. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB  | MAR   | APR  | MAY  | JUN     | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|------|-------|------|------|---------|-------|-------|-------|
| 1     | 237   | 185   | 101   | e 90  | 72   | 186   | 402  | 102  | 42      | 440   | 507   | e400  |
| 2     | 307   | 135   | 138   | e100  | 147  | 120   | 330  | 87   | 36      | 588   | e500  | e400  |
| 3     | 394   | 105   | 159   | e 85  | 203  | 58    | 294  | 87   | 12      | 616   | e500  | e400  |
| 4     | 380   | 257   | 160   | e 80  | 80   | 59    | 300  | 89   | 13      | 570   | e400  | 382   |
| 5     | 450   | 230   | 402   | e400  | 80   | 53    | 272  | 100  | 7.9     | 525   | e400  | 380   |
| 6     | 243   | 137   | 379   | e225  | 72   | 56    | 211  | 90   | 36      | 491   | e550  | e380  |
| 7     | 344   | 172   | 327   | e350  | 56   | 61    | 194  | 88   | 30      | e500  | e550  | e380  |
| 8     | 335   | 214   | 290   | 428   | 122  | 64    | 186  | 81   | 252     | 532   | 418   | e380  |
| 9     | 311   | 92    | 214   | 439   | 163  | 63    | 188  | 81   | 476     | 595   | 502   | e380  |
| 10    | 309   | 107   | 164   | 563   | 60   | 187   | 203  | 173  | 439     | 466   | 453   | e380  |
| 11    | 243   | 307   | 182   | 526   | 48   | 442   | 54   | 118  | 350     | e470  | e450  | 597   |
| 12    | 246   | 257   | 184   | 464   | 55   | 359   | 180  | 126  | 377     | e470  | e450  | 547   |
| 13    | 230   | 294   | 124   | 423   | 50   | 292   | 211  | 23   | 741     | 493   | e450  | 514   |
| 14    | 199   | 268   | 163   | 345   | 49   | 307   | 113  | 74   | 583     | e500  | e450  | 451   |
| 15    | 148   | 265   | 156   | 289   | 142  | 334   | e122 | 82   | 573     | e500  | e450  | 380   |
| 16    | 203   | 253   | 95    | 238   | 116  | 300   | 251  | 36   | 657     | e500  | 421   | 152   |
| 17    | 179   | 171   | 173   | 235   | 54   | 250   | 139  | 19   | 652     | e500  | e500  | 126   |
| 18    | 216   | 284   | 188   | 254   | 214  | 238   | 112  | 24   | 560     | e500  | e550  | 70    |
| 19    | 327   | 235   | 133   | 256   | 226  | 242   | 120  | 99   | 628     | e500  | e625  | 88    |
| 20    | 415   | 129   | 60    | 258   | 253  | 228   | 48   | 54   | 704     | e500  | 546   | 85    |
| 21    | 420   | 137   | 158   | 274   | 116  | 347   | 25   | 90   | 616     | e500  | 519   | 152   |
| 22    | 348   | 149   | 165   | 294   | 77   | 298   | 47   | 421  | 608     | e500  | 522   | 255   |
| 23    | 261   | 217   | e170  | 279   | 193  | 203   | 55   | 329  | 602     | e500  | 494   | 226   |
| 24    | 407   | 178   | e175  | 180   | 106  | 210   | 82   | 177  | 491     | e500  | 445   | 189   |
| 25    | 301   | 106   | e375  | 64    | 157  | 169   | 152  | 91   | 528     | e500  | 364   | 143   |
| 26    | 256   | 132   | e400  | 159   | 99   | 273   | 153  | 146  | 576     | e500  | e350  | 75    |
| 27    | 270   | 186   | e150  | 116   | 52   | 538   | 130  | 26   | 468     | e500  | e350  | 166   |
| 28    | 278   | 114   | e380  | 69    | 55   | 650   | 127  | 23   | 381     | e500  | e400  | 130   |
| 29    | 260   | 88    | e400  | 65    | ---  | 576   | 113  | 13   | 371     | e500  | e400  | 110   |
| 30    | 286   | 83    | e375  | 71    | ---  | 385   | 122  | 75   | 411     | e514  | e400  | 77    |
| 31    | 220   | ---   | e425  | 67    | ---  | 442   | ---  | 16   | ---     | e542  | e400  | ---   |
| TOTAL | 9023  | 5487  | 6965  | 7686  | 3117 | 7990  | 4936 | 3040 | 12220.9 | 15812 | 14316 | 8395  |
| MEAN  | 291   | 183   | 225   | 248   | 111  | 258   | 165  | 98.1 | 407     | 510   | 462   | 280   |
| MAX   | 450   | 307   | 425   | 563   | 253  | 650   | 402  | 421  | 741     | 616   | 625   | 597   |
| MIN   | 148   | 83    | 60    | 64    | 48   | 53    | 25   | 13   | 7.9     | 440   | 350   | 70    |
| AC-FT | 17900 | 10880 | 13820 | 15250 | 6180 | 15850 | 9790 | 6030 | 24240   | 31360 | 28400 | 16650 |

CAL YR 1985 TOTAL 61780.70 MEAN 169 MAX 974 MIN -31 AC-FT 122500  
WTR YR 1986 TOTAL 98987.90 MEAN 271 MAX 741 MIN 7.9 AC-FT 196300

e Estimated

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286200 SNAKE CREEK CANAL AT NW 67TH AVENUE, NEAR HIALEAH, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 2.39 | 2.22 | 2.30 | ---  | 2.28 | 2.02 | 2.44 | 2.18 | 2.16 | 2.41 | 2.42 | 2.31 |
| 2    | 2.40 | 2.27 | 2.23 | ---  | 2.21 | 1.96 | 2.35 | 2.17 | 2.22 | 2.41 | 2.43 | 2.30 |
| 3    | 2.41 | 2.31 | 2.03 | ---  | 1.95 | 2.05 | 2.21 | 2.16 | 2.23 | 2.50 | 2.40 | 2.30 |
| 4    | 2.44 | 2.22 | 2.23 | ---  | 2.13 | 2.07 | 2.16 | 2.17 | 2.20 | 2.50 | 2.51 | 2.35 |
| 5    | 2.44 | 2.14 | 2.38 | ---  | 2.18 | 2.08 | 2.19 | 2.20 | 2.19 | 2.49 | 2.69 | 2.50 |
| 6    | 2.41 | 2.24 | 2.36 | ---  | 2.20 | 2.07 | 2.20 | 2.21 | 2.16 | 2.48 | 2.50 | 2.55 |
| 7    | 2.40 | 2.29 | 2.27 | ---  | 2.22 | 2.07 | 2.21 | 2.19 | 2.14 | 2.78 | 2.44 | 2.59 |
| 8    | 2.34 | 2.14 | 2.22 | 2.17 | 2.16 | 2.06 | 2.11 | 2.19 | 2.31 | 2.71 | 2.37 | 2.54 |
| 9    | 2.23 | 2.30 | 2.27 | 2.35 | 1.93 | 2.06 | 2.09 | 2.19 | 2.42 | 2.64 | 2.39 | 2.53 |
| 10   | 2.24 | 2.34 | 2.29 | 2.54 | 2.11 | 2.17 | 2.03 | 2.19 | 2.35 | 2.56 | 2.46 | 2.49 |
| 11   | 2.26 | 2.20 | 2.22 | 2.50 | 2.15 | 2.16 | 2.24 | 2.23 | 2.33 | 2.48 | 2.50 | 2.44 |
| 12   | 2.27 | 2.28 | 2.18 | 2.41 | 2.18 | 2.13 | 2.04 | 2.16 | 2.41 | 2.37 | 2.61 | 2.37 |
| 13   | 2.27 | 2.24 | 2.25 | 2.34 | 2.19 | 2.06 | 2.12 | 2.12 | 2.49 | 2.34 | 2.61 | 2.33 |
| 14   | 2.30 | 2.27 | 2.20 | 2.26 | 2.19 | 2.06 | 2.19 | 2.24 | 2.38 | 2.43 | 2.56 | 2.31 |
| 15   | 2.32 | 2.22 | 2.19 | 2.21 | 2.06 | 2.20 | 2.25 | 2.19 | 2.59 | 2.60 | 2.50 | 2.20 |
| 16   | 2.21 | 2.21 | 2.20 | 2.24 | 1.93 | 2.29 | 2.06 | 2.28 | 2.68 | 2.59 | 2.50 | 2.29 |
| 17   | 2.27 | 2.24 | 2.24 | 2.19 | 2.07 | 2.25 | 2.07 | 2.28 | 2.61 | 2.53 | 2.57 | 2.11 |
| 18   | 2.20 | 2.13 | 2.20 | 2.14 | 2.14 | 2.17 | 2.12 | 2.27 | 2.46 | 2.49 | 2.53 | 2.24 |
| 19   | 2.26 | 1.96 | 2.12 | 2.09 | 2.13 | 2.07 | 1.94 | 2.12 | 2.43 | 2.45 | 2.44 | 2.26 |
| 20   | 2.31 | 2.26 | 2.29 | 2.00 | 2.08 | 1.97 | 2.13 | 2.12 | 2.59 | 2.37 | 2.40 | 2.26 |
| 21   | 2.32 | 2.30 | 2.13 | 1.90 | 2.18 | 2.10 | 2.17 | 2.23 | 2.46 | 2.36 | 2.37 | 2.22 |
| 22   | 2.29 | 2.31 | 1.94 | 1.83 | 2.26 | 2.16 | 2.18 | 2.27 | 2.45 | 2.35 | 2.37 | 2.19 |
| 23   | 2.31 | 2.23 | ---  | 1.77 | 2.13 | 2.17 | 2.16 | 2.20 | 2.52 | 2.41 | 2.41 | 2.17 |
| 24   | 2.28 | 2.19 | ---  | 1.85 | 2.13 | 2.11 | 2.09 | 2.23 | 2.42 | 2.49 | 2.42 | 2.15 |
| 25   | 2.29 | 2.29 | ---  | 2.10 | 2.06 | 2.18 | 1.93 | 2.25 | 2.36 | 2.53 | 2.45 | 2.15 |
| 26   | 2.26 | 2.26 | ---  | 2.08 | 2.01 | 2.50 | 2.04 | 2.14 | 2.40 | 2.56 | 2.48 | 2.27 |
| 27   | 2.29 | 2.18 | ---  | 2.08 | 2.09 | 3.06 | 2.12 | 2.27 | 2.37 | 2.52 | 2.46 | 2.06 |
| 28   | 2.28 | 2.18 | ---  | 2.19 | 2.11 | 2.96 | 2.09 | 2.28 | 2.28 | 2.57 | 2.41 | 2.01 |
| 29   | 2.27 | 2.29 | ---  | 2.22 | ---  | 2.82 | 2.17 | 2.27 | 2.35 | 2.59 | 2.35 | 2.06 |
| 30   | 2.22 | 2.33 | ---  | 2.25 | ---  | 2.57 | 2.19 | 2.13 | 2.42 | 2.53 | 2.32 | 2.18 |
| 31   | 2.25 | ---  | ---  | 2.26 | ---  | 2.41 | ---  | 2.13 | ---  | 2.43 | 2.37 | ---  |
| MEAN | 2.30 | 2.23 | ---  | ---  | 2.12 | 2.23 | 2.14 | 2.20 | 2.38 | 2.50 | 2.46 | 2.29 |
| MAX  | 2.44 | 2.34 | ---  | ---  | 2.28 | 3.06 | 2.44 | 2.28 | 2.68 | 2.78 | 2.69 | 2.59 |
| MIN  | 2.20 | 1.96 | ---  | ---  | 1.93 | 1.96 | 1.93 | 2.12 | 2.14 | 2.34 | 2.32 | 2.01 |

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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255026080231300 SNAPPER CREEK CANAL EXTENSION AT NW 74TH STREET, NEAR HIALEAH, FL

LOCATION.--Lat 25°50'26", long 80°23'13", in SE sec.12, T.53 S., R.39 E., Dade County, Hydrologic Unit 03090202, on the north side of a short spur canal that runs west from the main canal at NW 74th Street, and 5.5 mi upstream from the Tamiami Canal.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1984 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 4.47 ft May 29, 1984; minimum, 1.31 ft May 24, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.10 ft Mar. 29; minimum, 1.93 ft May 9.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 3.81 | 3.21 | 3.20 | 2.57 | 2.48 | 2.33 | 3.83 | 2.06 | 2.53 | 3.26 | 2.97 | 2.76 |
| 2    | 3.72 | 3.15 | 3.20 | 2.55 | 2.45 | 2.27 | 3.76 | 2.01 | 2.51 | 3.39 | 2.93 | 2.75 |
| 3    | 3.64 | 3.11 | 3.19 | 2.53 | 2.42 | 2.25 | 3.64 | 1.96 | 2.47 | 3.53 | 2.88 | 2.73 |
| 4    | 3.60 | 3.10 | 3.22 | 2.50 | 2.38 | 2.22 | 3.54 | 2.03 | 2.40 | 3.54 | 2.94 | 2.71 |
| 5    | 3.66 | 3.03 | 3.40 | 2.48 | 2.36 | 2.22 | 3.45 | 2.16 | 2.34 | 3.48 | 3.05 | 2.75 |
| 6    | 3.64 | 2.97 | 3.38 | 2.46 | 2.34 | 2.22 | 3.37 | 2.13 | 2.28 | 3.42 | 2.95 | 2.90 |
| 7    | 3.59 | 2.93 | 3.27 | 2.49 | 2.37 | 2.20 | 3.29 | 2.05 | 2.22 | 3.41 | 2.87 | 3.34 |
| 8    | 3.53 | 2.89 | 3.20 | 2.64 | 2.49 | 2.17 | 3.22 | 2.00 | 2.39 | 3.42 | 2.81 | 3.25 |
| 9    | 3.47 | 2.86 | 3.14 | 3.15 | 2.47 | 2.14 | 3.14 | 2.12 | 2.69 | 3.45 | 2.78 | 3.17 |
| 10   | 3.42 | 2.84 | 3.08 | 3.45 | 2.44 | 2.59 | 3.05 | 2.75 | 2.63 | 3.58 | 2.75 | 3.09 |
| 11   | 3.37 | 2.92 | 3.01 | 3.47 | 2.40 | 3.48 | 2.98 | 2.51 | 2.57 | 3.50 | 3.06 | 3.00 |
| 12   | 3.31 | 2.96 | 2.96 | 3.39 | 2.38 | 3.35 | 2.92 | 2.41 | 2.52 | 3.43 | 3.07 | 2.93 |
| 13   | 3.26 | 2.92 | 2.91 | 3.38 | 2.35 | 3.22 | 2.99 | 2.36 | 2.57 | 3.39 | 2.99 | 2.86 |
| 14   | 3.21 | 2.91 | 2.87 | 3.27 | 2.34 | 3.13 | 2.95 | 2.33 | 2.57 | 3.36 | 2.91 | 2.80 |
| 15   | 3.16 | 2.88 | 2.83 | 3.19 | 2.35 | 3.07 | 2.86 | 2.32 | 2.80 | 3.28 | 2.86 | 2.74 |
| 16   | 3.12 | 2.89 | 2.82 | 3.12 | 2.34 | 3.07 | 2.79 | 2.32 | 2.99 | 3.21 | 2.87 | 2.70 |
| 17   | 3.08 | 2.91 | 2.85 | 3.05 | 2.33 | 2.99 | 2.73 | 2.26 | 2.94 | 3.13 | 2.96 | 2.67 |
| 18   | 3.07 | 2.93 | 2.79 | 2.99 | 2.69 | 2.93 | 2.68 | 2.21 | 3.10 | 3.05 | 2.99 | 2.65 |
| 19   | 3.26 | 2.96 | 2.75 | 2.94 | 2.81 | 2.86 | 2.62 | 2.15 | 3.15 | 3.00 | 2.99 | 2.61 |
| 20   | 3.32 | 3.04 | 2.72 | 2.88 | 2.70 | 2.81 | 2.58 | 2.10 | 3.57 | 2.93 | 2.95 | 2.58 |
| 21   | 3.27 | 3.06 | 2.67 | 2.82 | 2.64 | 2.95 | 2.53 | 2.47 | 3.48 | 2.89 | 2.90 | 2.71 |
| 22   | 3.20 | 3.13 | 2.63 | 2.78 | 2.61 | 2.91 | 2.48 | 3.72 | 3.57 | 2.88 | 2.85 | 2.85 |
| 23   | 3.15 | 3.24 | 2.60 | 2.75 | 2.57 | 2.79 | 2.42 | 3.55 | 3.64 | 2.95 | 2.80 | 2.79 |
| 24   | 3.14 | 3.21 | 2.61 | 2.71 | 2.53 | 2.72 | 2.37 | 3.43 | 3.57 | 2.94 | 2.76 | 2.77 |
| 25   | 3.08 | 3.20 | 2.66 | 2.68 | 2.48 | 2.67 | 2.32 | 3.28 | 3.49 | 3.13 | 2.78 | 2.75 |
| 26   | 3.04 | 3.19 | 2.62 | 2.65 | 2.42 | 2.95 | 2.28 | 3.14 | 3.43 | 3.04 | 2.80 | 2.70 |
| 27   | 3.04 | 3.19 | 2.60 | 2.61 | 2.38 | 3.81 | 2.25 | 3.02 | 3.40 | 3.10 | 2.75 | 2.64 |
| 28   | 3.08 | 3.20 | 2.64 | 2.57 | 2.35 | 3.89 | 2.20 | 2.90 | 3.36 | 3.27 | 2.79 | 2.60 |
| 29   | 3.18 | 3.22 | 2.70 | 2.55 | ---  | 3.95 | 2.16 | 2.78 | 3.33 | 3.18 | 2.80 | 2.55 |
| 30   | 3.38 | 3.21 | 2.64 | 2.54 | ---  | 4.00 | 2.11 | 2.67 | 3.29 | 3.09 | 2.72 | 2.61 |
| 31   | 3.29 | ---  | 2.60 | 2.51 | ---  | 3.90 | ---  | 2.57 | ---  | 3.01 | 2.79 | ---  |
| MEAN | 3.33 | 3.04 | 2.90 | 2.83 | 2.46 | 2.91 | 2.85 | 2.51 | 2.93 | 3.23 | 2.88 | 2.80 |
| MAX  | 3.81 | 3.24 | 3.40 | 3.47 | 2.81 | 4.00 | 3.83 | 3.72 | 3.64 | 3.58 | 3.07 | 3.34 |
| MIN  | 3.04 | 2.84 | 2.60 | 2.46 | 2.33 | 2.14 | 2.11 | 1.96 | 2.22 | 2.88 | 2.72 | 2.55 |

CAL YR 1985 MEAN 2.60 MAX 4.41 MIN 1.31  
WTR YR 1986 MEAN 2.89 MAX 4.00 MIN 1.96



## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286399 MIAMI CANAL ABOVE HGS-3 AND S-3 AT LAKE HARBOR, FL

LOCATION.--Lat 26°41'55", long 80°48'25", in SE¼ sec.35, T.43 S., R.35 E., Palm Beach County, Hydrologic Unit 03090202, in pump station 3 at Lake Okeechobee, 0.4 mi upstream from U.S. Highway 27, in Lake Harbor.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1957 to current year (gage heights). Records of gage heights prior to October 1962 are available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Oct. 1, 1957, to Sept. 30, 1959, at datum 0.05 ft lower and Oct. 1, 1959, to Feb. 7, 1962, at datum 0.22 ft lower.

REMARKS.--Water-level records are those for Lake Okeechobee at pump station 3. Stage is affected by S-3 pumping, HGS-3 gate operations, wind, and seiche.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 19.78 ft Mar. 7, 1983; minimum, 9.50 ft Aug. 3, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 15.73 ft Sept. 9; minimum, 12.25 ft May 20.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1    | 14.35 | 14.14 | 13.92 | 13.77 | 14.06 | 14.40 | 14.36 | 13.41 | 12.84 | 13.48 | 14.17 | 14.90 |
| 2    | 14.32 | 14.26 | 14.01 | 13.79 | 14.06 | 14.21 | 14.23 | 13.38 | 12.86 | 13.53 | 14.10 | 14.92 |
| 3    | 14.28 | 14.20 | 14.31 | 13.79 | 14.06 | 14.05 | 14.23 | 13.42 | 12.91 | 13.51 | 14.16 | 14.93 |
| 4    | 14.34 | 14.43 | 14.04 | 13.76 | 14.01 | 13.98 | 14.18 | 13.50 | 13.00 | 13.57 | 14.20 | 15.00 |
| 5    | 14.38 | 14.48 | 14.00 | 14.00 | 13.98 | 14.07 | 14.20 | 13.31 | 12.92 | 13.70 | 14.27 | 14.99 |
| 6    | 14.55 | 14.33 | 14.39 | 14.04 | 13.91 | 14.04 | 14.15 | 13.27 | 12.77 | 13.85 | 14.29 | 14.94 |
| 7    | 14.74 | 14.26 | 14.24 | 13.81 | 14.01 | 13.99 | 14.12 | 13.31 | 12.65 | 13.93 | 14.29 | 14.94 |
| 8    | 14.51 | 14.25 | 14.07 | 14.00 | 13.97 | 14.11 | 14.08 | 13.28 | 12.64 | 13.95 | 14.32 | 14.95 |
| 9    | 14.61 | 14.25 | 14.09 | 13.97 | 14.05 | 13.89 | 14.09 | 13.35 | 12.77 | 13.92 | 14.30 | 15.05 |
| 10   | 14.43 | 14.24 | 14.02 | 13.78 | 13.96 | 14.07 | 14.27 | 13.58 | 12.77 | 13.95 | 14.23 | 15.07 |
| 11   | 14.40 | 14.22 | 13.97 | 14.29 | 13.95 | 14.15 | 14.18 | 13.41 | 12.77 | 13.98 | 14.20 | 15.06 |
| 12   | 14.40 | 14.20 | 13.94 | 14.25 | 14.27 | 14.12 | 14.07 | 13.23 | 12.78 | 14.07 | 14.19 | 15.11 |
| 13   | 14.39 | 14.21 | 13.87 | 14.19 | 14.46 | 14.02 | 14.02 | 13.19 | 12.90 | 14.03 | 14.28 | 15.13 |
| 14   | 14.39 | 14.18 | 14.31 | 14.21 | 14.11 | 14.14 | 14.14 | 13.26 | 12.86 | 14.09 | 14.39 | 15.15 |
| 15   | 14.38 | 14.15 | 14.34 | 14.05 | 14.06 | 14.21 | 13.98 | 13.27 | 12.81 | 14.05 | 14.41 | 15.17 |
| 16   | 14.42 | 14.14 | 14.19 | 14.06 | 14.17 | 14.20 | 13.95 | 13.23 | 12.79 | 14.04 | 14.45 | 15.18 |
| 17   | 14.41 | 14.16 | 14.23 | 14.04 | 14.00 | 14.34 | 14.03 | 13.11 | 12.90 | 14.08 | 14.44 | 15.23 |
| 18   | 14.41 | 14.28 | 14.14 | 14.04 | 13.99 | 14.21 | 14.04 | 13.07 | 12.93 | 14.05 | 14.45 | 15.20 |
| 19   | 14.39 | 14.15 | 14.18 | 14.03 | 14.03 | 14.12 | 14.00 | 13.01 | 12.97 | 14.03 | 14.44 | 15.25 |
| 20   | 14.39 | 13.94 | 14.05 | 14.15 | 14.08 | 14.17 | 13.73 | 13.04 | 13.06 | 14.00 | 14.47 | 15.21 |
| 21   | 14.38 | 13.85 | 14.08 | 14.23 | 14.12 | 14.86 | 13.65 | 12.96 | 13.22 | 13.99 | 14.64 | 15.25 |
| 22   | 14.35 | 13.99 | 14.02 | 14.13 | 14.12 | 15.03 | 13.88 | 13.16 | 13.25 | 14.02 | 14.71 | 15.23 |
| 23   | 14.33 | 14.18 | 13.85 | 14.10 | 14.10 | 14.96 | 14.01 | 13.15 | 13.30 | 14.12 | 14.78 | 15.20 |
| 24   | 14.38 | 14.12 | 13.81 | 14.20 | 14.20 | 14.54 | 13.85 | 13.12 | 13.29 | 14.10 | 14.75 | 15.20 |
| 25   | 14.40 | 14.10 | 14.05 | 14.10 | 14.48 | 14.38 | 13.69 | 13.11 | 13.33 | 14.07 | 14.74 | 15.21 |
| 26   | 14.31 | 14.03 | 14.20 | 14.15 | 14.22 | 14.33 | 13.58 | 13.04 | 13.36 | 14.08 | 14.75 | 15.17 |
| 27   | 14.22 | 13.99 | 13.89 | 14.32 | 13.88 | 14.42 | 13.56 | 13.00 | 13.40 | 14.13 | 14.78 | 15.21 |
| 28   | 14.23 | 13.93 | 13.81 | 14.26 | 14.13 | 14.48 | 13.57 | 12.98 | 13.39 | 14.09 | 14.81 | 15.20 |
| 29   | 14.27 | 13.93 | 13.81 | 14.05 | ---   | 14.46 | 13.55 | 12.99 | 13.39 | 14.08 | 14.85 | 15.17 |
| 30   | 14.17 | 13.90 | 13.98 | 14.02 | ---   | 14.38 | 13.54 | 12.91 | 13.43 | 14.10 | 14.85 | 15.14 |
| 31   | 13.95 | ---   | 13.77 | 14.08 | ---   | 14.41 | ---   | 12.86 | ---   | 14.16 | 14.89 | ---   |
| MEAN | 14.37 | 14.15 | 14.05 | 14.05 | 14.09 | 14.28 | 13.96 | 13.19 | 13.01 | 13.96 | 14.47 | 15.11 |
| MAX  | 14.74 | 14.48 | 14.39 | 14.32 | 14.48 | 15.03 | 14.36 | 13.58 | 13.43 | 14.16 | 14.89 | 15.25 |
| MIN  | 13.95 | 13.85 | 13.77 | 13.76 | 13.88 | 13.89 | 13.54 | 12.86 | 12.64 | 13.48 | 14.10 | 14.90 |

CAL YR 1985 MEAN 13.46 MAX 15.37 MIN 11.56  
WTR YR 1986 MEAN 14.06 MAX 15.25 MIN 12.64

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

165

02286400 MIAMI CANAL AT HGS-3, AND S-3, AT LAKE HARBOR, FL

LOCATION.--Lat 26°41'55", long 80°48'25", in SE¼ sec.35, T.43 S., R.35 E., Palm Beach County, Hydrologic Unit 03090202, at hurricane gate structure and pump station 3 at Lake Okeechobee, 0.4 mi upstream from U.S. Highway 27 in Lake Harbor.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1939 to June 1943 (published as Miami Canal at Lake Harbor), October 1957 to current year. Prior to October 1940, monthly discharge only, published in WSP 1304.

GAGE.--Dual graphic water-stage recorder, digital lake and canal water-stage recorders, electromagnetic velocity meter and digital recorder, gate-opening indicator and pump tachometer. Datum of gage is National Geodetic Vertical Datum of 1929. Dec. 1, 1939 to June 30, 1943, nonrecording gage at site 0.4 mi downstream at same datum. Oct. 1, 1957 to Sept. 30, 1959, dual water-stage recorder at present site, at datum 0.05 ft lower and Oct. 1, 1959 to Feb. 7, 1962, at datum 0.22 ft lower. Oct. 1, 1957 to Sept. 30, 1968, two deflection vane recorders.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by hurricane gates and pump station at Lake Okeechobee. Discharge is summation of HGS-3 flow, S-3 pumpage and syphoning. Flow frequently reversed during and after periods of heavy rainfall by pumpage into the canal from agricultural lands in the Everglades, or by the operation of pump station 3 (negative figure indicates reverse flow). Discharge computed from relations between discharge, head, gate openings, and pump tachometer.

COOPERATION.--S-3 pump, syphon record and HGS-3 gate-operation record provided by South Florida Water Management District.

AVERAGE DISCHARGE.--29 years, (1957-86), 39.3 ft<sup>3</sup>/s, 28,470 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,280 ft<sup>3</sup>/s Mar. 24, 1966; maximum gage height (Miami Canal) 14.92 ft, present datum, Mar. 21, 1960 and Oct. 2, 1965; maximum daily reverse flow, 2,790 ft<sup>3</sup>/s Mar. 26, 1970; no flow on some days each year; minimum gage height (Miami Canal), 7.51 ft Oct. 28, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 663 ft<sup>3</sup>/s Jan. 28; maximum gage height (Miami Canal), 13.33 ft June 25; maximum daily reverse flow, 1,110 ft<sup>3</sup>/s June 21; no flow for some days during the year; minimum gage height, 9.23 ft Sept. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT  | NOV    | DEC     | JAN     | FEB     | MAR     | APR      | MAY      | JUN      | JUL  | AUG  | SEP  |
|-------|------|--------|---------|---------|---------|---------|----------|----------|----------|------|------|------|
| 1     | .00  | .00    | 112     | .00     | .00     | 119     | .00      | 571      | 389      | .00  | .00  | .00  |
| 2     | .00  | .00    | 116     | .00     | .00     | 115     | .00      | 607      | .00      | .00  | .00  | .00  |
| 3     | .00  | .00    | 127     | .00     | .00     | 39      | .00      | 633      | .00      | .00  | .00  | .00  |
| 4     | .00  | .00    | 114     | .00     | .00     | .00     | 156      | 607      | 50       | .00  | .00  | .00  |
| 5     | .00  | .00    | 63      | .00     | .00     | 172     | 385      | 332      | 73       | .00  | .00  | .00  |
| 6     | .00  | .00    | .00     | .00     | 78      | 248     | 356      | .00      | 250      | .00  | .00  | .00  |
| 7     | .00  | .00    | .00     | .00     | 300     | 109     | 111      | 157      | 406      | .00  | .00  | .00  |
| 8     | .00  | .00    | .00     | .00     | 239     | 117     | 68       | 315      | 352      | .00  | .00  | .00  |
| 9     | .00  | .00    | .00     | .00     | .00     | 108     | 126      | 331      | 106      | .00  | .00  | .00  |
| 10    | .00  | .00    | .00     | .00     | 253     | 36      | 427      | 336      | .00      | .00  | .00  | .00  |
| 11    | .00  | .00    | .00     | .00     | 202     | .00     | 643      | 296      | .00      | .00  | .00  | .00  |
| 12    | .00  | .00    | 52      | .00     | 317     | .00     | 602      | 290      | .00      | .00  | .00  | .00  |
| 13    | .00  | 55     | 110     | .00     | 507     | .00     | 558      | 303      | .00      | .00  | .00  | .00  |
| 14    | .00  | 116    | 48      | .00     | 362     | .00     | 418      | 406      | .00      | .00  | .00  | .00  |
| 15    | .00  | 115    | .00     | .00     | 351     | .00     | 362      | 517      | .00      | .00  | .00  | .00  |
| 16    | .00  | 116    | 81      | .00     | 193     | .00     | 387      | 506      | .00      | .00  | .00  | .00  |
| 17    | .00  | 120    | 43      | .00     | 110     | .00     | 403      | 482      | .00      | .00  | .00  | .00  |
| 18    | .00  | 41     | .00     | .00     | 37      | .00     | 395      | 482      | .00      | .00  | .00  | .00  |
| 19    | .00  | .00    | .00     | .00     | .00     | .00     | 389      | 481      | .00      | .00  | .00  | .00  |
| 20    | .00  | .00    | .00     | .00     | .00     | .00     | 356      | 264      | -731     | .00  | .00  | .00  |
| 21    | .00  | .00    | .00     | .00     | .00     | .00     | 347      | 223      | -1110    | .00  | .00  | .00  |
| 22    | .00  | .00    | .00     | .00     | .00     | .00     | 367      | 82       | -1090    | .00  | .00  | .00  |
| 23    | .00  | .00    | 199     | .00     | .00     | .00     | 632      | .00      | .00      | .00  | .00  | .00  |
| 24    | .00  | .00    | 130     | .00     | .00     | .00     | 654      | .00      | .00      | .00  | .00  | .00  |
| 25    | .00  | .00    | .00     | .00     | .00     | .00     | 560      | .00      | .00      | .00  | .00  | .00  |
| 26    | .00  | .00    | 460     | .00     | 82      | .00     | 542      | .00      | .00      | .00  | .00  | .00  |
| 27    | .00  | 50     | 321     | 339     | 108     | .00     | 531      | 440      | .00      | .00  | .00  | .00  |
| 28    | .00  | 114    | .00     | 663     | 121     | .00     | 528      | 637      | .00      | .00  | .00  | .00  |
| 29    | .00  | 113    | .00     | 200     | ---     | .00     | 534      | 655      | .00      | .00  | .00  | .00  |
| 30    | .00  | 111    | .00     | .00     | ---     | .00     | 562      | 662      | .00      | .00  | .00  | .00  |
| 31    | .00  | ---    | .00     | .00     | ---     | .00     | ---      | 623      | ---      | .00  | .00  | ---  |
| TOTAL | .00  | 951.00 | 1976.00 | 1202.00 | 3260.00 | 1063.00 | 11399.00 | 11238.00 | -1305.00 | .00  | .00  | .00  |
| MEAN  | .000 | 31.7   | 63.7    | 38.8    | 116     | 34.3    | 380      | 363      | -43.5    | .000 | .000 | .000 |
| MAX   | .00  | 120    | 460     | 663     | 507     | 248     | 654      | 662      | 406      | .00  | .00  | .00  |
| MIN   | .00  | .00    | .00     | .00     | .00     | .00     | .00      | .00      | -1110    | .00  | .00  | .00  |
| AC-FT | .00  | 1890   | 3920    | 2380    | 6470    | 2110    | 22610    | 22290    | -2590    | .00  | .00  | .00  |

CAL YR 1985 TOTAL 20349.00 MEAN 55.8 MAX 1470 MIN -2150 AC-FT 40360  
WTR YR 1986 TOTAL 29784.00 MEAN 81.6 MAX 663 MIN -1110 AC-FT 59080

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286400 MIAMI CANAL AT HGS-3, AND S-3, AT LAKE HARBOR, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT        | NOV   | DEC       | JAN      | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|------------|-------|-----------|----------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 11.99      | 11.12 | 10.99     | 10.99    | 10.98 | 11.70 | 11.20 | 10.97 | 11.41 | 10.97 | 10.98 | 10.47 |
| 2           | 11.70      | 11.09 | 10.96     | 11.92    | 10.91 | 11.47 | 11.04 | 10.90 | 10.97 | 11.85 | 11.38 | 10.16 |
| 3           | 11.94      | 11.07 | 11.14     | 11.38    | 10.84 | 11.12 | 10.84 | 11.16 | 10.93 | 11.03 | 11.62 | 10.00 |
| 4           | 12.17      | 11.62 | 11.15     | 11.22    | 10.88 | 10.96 | 10.67 | 11.44 | 10.90 | 10.53 | 11.43 | 10.03 |
| 5           | 11.26      | 11.72 | 11.37     | 11.12    | 10.78 | 10.90 | 11.23 | 11.60 | 10.87 | 11.53 | 11.06 | 11.24 |
| 6           | 12.19      | 11.40 | 11.74     | 11.24    | 10.52 | 11.43 | 11.59 | 11.17 | 10.74 | 12.65 | 10.82 | 9.51  |
| 7           | 10.76      | 11.38 | 10.59     | 11.42    | 10.75 | 11.31 | 11.45 | 10.90 | 11.33 | 11.86 | 11.46 | 9.94  |
| 8           | 11.83      | 11.42 | 11.09     | 11.68    | 11.40 | 11.14 | 10.85 | 11.03 | 11.65 | 11.17 | 11.21 | 10.12 |
| 9           | 11.79      | 11.38 | 11.19     | 10.95    | 10.96 | 11.12 | 10.65 | 10.88 | 11.51 | 11.31 | 11.08 | 11.20 |
| 10          | 11.82      | 11.10 | 11.13     | 11.51    | 10.81 | 11.52 | 10.68 | 11.13 | 11.03 | 10.88 | 11.61 | 12.32 |
| 11          | 12.00      | 10.96 | 11.02     | 11.06    | 10.94 | 11.13 | 11.27 | 11.46 | 10.95 | 11.78 | 11.24 | 11.82 |
| 12          | 11.99      | 10.97 | 10.88     | 10.60    | 10.79 | 11.42 | 11.50 | 11.32 | 10.91 | 11.58 | 10.71 | 10.46 |
| 13          | 11.73      | 11.33 | 10.96     | 11.27    | 11.38 | 10.50 | 11.80 | 11.09 | 11.32 | 11.70 | 11.31 | 10.22 |
| 14          | 11.70      | 11.37 | 11.28     | 11.31    | 11.45 | 11.11 | 11.82 | 11.02 | 11.73 | 11.90 | 11.15 | 10.18 |
| 15          | 11.69      | 11.36 | 11.18     | 11.13    | 11.55 | 10.76 | 11.29 | 11.25 | 12.34 | 10.70 | 10.58 | 10.36 |
| 16          | 11.67      | 11.28 | 10.90     | 11.09    | 11.51 | 11.21 | 10.84 | 11.29 | 11.78 | 11.75 | 10.47 | 11.56 |
| 17          | 11.51      | 11.14 | 11.29     | 11.11    | 11.24 | 10.36 | 10.70 | 11.34 | 11.84 | 11.12 | 11.35 | 10.20 |
| 18          | 11.31      | 10.77 | 11.36     | 10.37    | 11.44 | 11.06 | 10.86 | 11.29 | 12.55 | 11.36 | 11.23 | 10.19 |
| 19          | 11.68      | 10.59 | 11.08     | 11.07    | 10.91 | 11.40 | 10.88 | 11.22 | 12.31 | 10.72 | 11.56 | 10.39 |
| 20          | 11.72      | 11.60 | 10.85     | 11.21    | 11.41 | 11.18 | 11.03 | 11.04 | 12.88 | 9.78  | 11.15 | 11.47 |
| 21          | 11.42      | 11.36 | 10.68     | 11.30    | 11.39 | 11.12 | 11.06 | 10.86 | 12.69 | 10.88 | 11.47 | 11.72 |
| 22          | 11.17      | 11.28 | 10.47     | 11.38    | 11.04 | 11.27 | 11.07 | 11.11 | 12.44 | 12.17 | 11.45 | 11.29 |
| 23          | 11.24      | 11.15 | 10.58     | 11.43    | 10.94 | 11.18 | 11.10 | 11.14 | 13.06 | 11.40 | 11.62 | 10.83 |
| 24          | 11.46      | 11.08 | 10.93     | 11.29    | 10.90 | 11.14 | 11.50 | 10.97 | 12.36 | 10.76 | 11.24 | 10.97 |
| 25          | 11.61      | 10.94 | 10.67     | 11.36    | 10.85 | 11.02 | 11.40 | 10.77 | 12.26 | 11.53 | 10.62 | 9.89  |
| 26          | 11.32      | 10.86 | 10.66     | 11.35    | 10.80 | 11.33 | 11.41 | 10.56 | 11.57 | 11.41 | 10.51 | 10.15 |
| 27          | 11.30      | 10.74 | 11.44     | 10.95    | 11.09 | 12.14 | 11.48 | 10.65 | 11.08 | 11.32 | 11.63 | 10.09 |
| 28          | 11.53      | 10.87 | 11.17     | 11.18    | 11.00 | 10.31 | 11.52 | 11.44 | 11.33 | 11.12 | 11.20 | 10.63 |
| 29          | 11.45      | 10.93 | 11.44     | 11.29    | ---   | 11.10 | 11.45 | 11.37 | 11.54 | 10.89 | 10.46 | 10.70 |
| 30          | 11.31      | 10.99 | 11.19     | 11.36    | ---   | 11.44 | 11.21 | 11.25 | 11.57 | 10.84 | 9.84  | 10.39 |
| 31          | 11.19      | ---   | 11.01     | 10.98    | ---   | 11.42 | ---   | 11.38 | ---   | 10.80 | 11.42 | ---   |
| MEAN        | 11.60      | 11.16 | 11.04     | 11.21    | 11.05 | 11.17 | 11.18 | 11.13 | 11.66 | 11.27 | 11.12 | 10.62 |
| MAX         | 12.19      | 11.72 | 11.74     | 11.92    | 11.55 | 12.14 | 11.82 | 11.60 | 13.06 | 12.65 | 11.63 | 12.32 |
| MIN         | 10.76      | 10.59 | 10.47     | 10.37    | 10.52 | 10.31 | 10.65 | 10.56 | 10.74 | 9.78  | 9.84  | 9.51  |
| CAL YR 1985 | MEAN 11.40 |       | MAX 12.68 | MIN 9.87 |       |       |       |       |       |       |       |       |
| WTR YR 1986 | MEAN 11.19 |       | MAX 13.06 | MIN 9.51 |       |       |       |       |       |       |       |       |

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

167

## 264514080550700 INDUSTRIAL CANAL AT CLEWISTON, FL

LOCATION.--Lat 26°45'14", long 80°55'07", in NW¼ sec.14, T.43 S., R.34 E., Hendry County, Hydrologic Unit 03090202, on south side of U.S. Highway 27 bridge, 0.8 mi south of Okeechobee Waterway, and 0.8 mi east of Clewiston post office.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1976 to September 1979, October 1979 to September 1981 (gage heights), October 1982 to current year.

GAGE.--Water-stage recorder and electromagnetic velocity meter. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to October 1979, at datum 0.24 ft lower.

REMARKS.--No estimated daily discharges. Records poor. Flow regulated by hurricane gate at Lake Okeechobee.

AVERAGE DISCHARGE.--7 years (water years 1977-79, 1983-86), 35.0 ft<sup>3</sup>/s, 25,360 acre ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 667 ft<sup>3</sup>/s Jan. 28, 1986; maximum gage height, 19.17 ft Mar. 7, 1983; maximum daily reverse flow, 1,400 ft<sup>3</sup>/s July 4, 1984; minimum gage height, 9.60 ft July 12, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 667 ft<sup>3</sup>/s Jan. 28; maximum gage height, 15.73 ft Sept. 13; maximum daily reverse flow, 588 ft<sup>3</sup>/s Jan. 8; minimum gage height, 12.30 ft June 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT  | NOV   | DEC   | JAN    | FEB  | MAR    | APR   | MAY   | JUN    | JUL     | AUG    | SEP    |
|-------|------|-------|-------|--------|------|--------|-------|-------|--------|---------|--------|--------|
| 1     | 91   | 118   | 407   | 177    | 184  | 66     | 461   | 453   | 281    | -242    | 151    | 54     |
| 2     | 61   | 323   | 255   | 388    | 352  | 93     | 466   | 425   | 190    | -526    | 105    | 111    |
| 3     | 21   | 285   | 255   | 222    | 350  | 29     | 387   | 416   | 295    | -158    | 127    | 154    |
| 4     | -172 | 212   | 341   | 338    | 156  | -64    | 424   | 403   | 367    | -144    | 148    | 108    |
| 5     | -87  | 341   | 190   | 313    | 314  | 44     | 400   | 392   | 340    | -265    | -59    | 116    |
| 6     | -61  | 443   | 143   | 263    | 340  | 83     | 476   | 378   | 371    | -241    | -13    | 125    |
| 7     | -12  | 435   | 304   | -5.9   | 308  | 91     | 503   | 327   | 352    | -193    | -39    | 88     |
| 8     | 25   | 427   | -16   | -588   | 281  | 90     | 513   | 323   | 50     | -170    | 51     | 1.4    |
| 9     | 64   | 401   | 366   | -345   | 255  | 82     | 587   | 177   | -254   | 36      | 124    | -146   |
| 10    | 112  | 394   | 302   | -378   | 253  | -59    | 449   | 379   | -127   | 6.5     | 158    | -100   |
| 11    | 105  | 403   | 344   | -106   | 174  | -8.5   | 531   | 396   | -48    | 100     | 104    | -95    |
| 12    | 74   | 384   | 379   | 37     | 97   | -64    | 489   | 378   | 79     | 21      | 66     | 38     |
| 13    | 37   | 296   | 376   | 226    | 170  | -94    | 296   | 391   | -368   | 58      | 18     | 48     |
| 14    | 93   | 420   | 246   | 361    | 96   | -63    | 480   | 404   | -429   | -99     | 13     | 114    |
| 15    | 77   | 383   | 236   | 442    | 77   | -21    | 407   | 376   | -2.2   | 7.7     | 51     | 190    |
| 16    | 127  | 420   | 416   | 147    | 108  | -83    | 504   | 384   | 158    | -4.5    | 98     | 187    |
| 17    | 143  | 404   | 428   | -281   | 56   | -26    | 468   | 393   | 142    | 69      | 137    | 234    |
| 18    | 101  | 340   | 229   | -285   | -100 | -13    | 466   | 403   | 48     | 104     | 64     | 191    |
| 19    | 88   | -548  | 368   | 27     | -71  | 8.9    | 445   | 364   | 86     | 94      | -26    | 187    |
| 20    | 49   | 140   | 270   | 166    | 41   | 46     | 365   | 245   | 87     | 99      | 1.0    | 200    |
| 21    | 48   | 334   | 439   | 368    | 66   | -105   | 360   | 299   | 204    | 72      | -83    | 234    |
| 22    | 73   | 325   | 384   | 285    | 46   | 200    | 514   | 193   | -14    | -142    | 27     | 168    |
| 23    | 63   | 309   | 306   | 419    | 52   | 63     | 363   | 396   | 15     | -224    | 43     | 166    |
| 24    | 51   | 397   | 403   | 223    | 78   | 267    | 445   | 301   | 5.2    | -38     | 31     | 160    |
| 25    | 70   | 387   | 328   | 371    | 138  | 363    | 407   | 283   | 61     | -217    | 131    | 158    |
| 26    | 70   | 271   | 469   | 298    | 108  | 294    | 480   | 358   | -130   | -414    | 84     | 77     |
| 27    | 31   | 330   | -39   | 503    | 111  | -78    | 459   | 398   | 174    | -274    | 95     | 128    |
| 28    | 64   | 351   | -17   | 667    | 17   | 126    | 346   | 354   | 252    | 135     | 92     | 161    |
| 29    | 115  | 374   | 128   | 434    | ---  | 231    | 461   | 402   | -268   | 67      | 129    | 198    |
| 30    | 132  | 365   | 322   | 187    | ---  | 349    | 480   | 420   | -98    | 132     | 50     | 196    |
| 31    | 116  | ---   | 184   | 410    | ---  | 423    | ---   | 382   | ---    | 128     | 32     | ---    |
| TOTAL | 1769 | 9464  | 8746  | 5283.1 | 4057 | 2270.4 | 13432 | 11193 | 1819.0 | -2222.3 | 1910.0 | 3451.4 |
| MEAN  | 57.1 | 315   | 282   | 170    | 145  | 73.2   | 448   | 361   | 60.6   | -71.7   | 61.6   | 115    |
| MAX   | 143  | 443   | 469   | 667    | 352  | 423    | 587   | 453   | 371    | 135     | 158    | 234    |
| MIN   | -172 | -548  | -39   | -588   | -100 | -105   | 296   | 177   | -429   | -526    | -83    | -146   |
| AC-FT | 3510 | 18770 | 17350 | 10480  | 8050 | 4500   | 26640 | 22200 | 3610   | -4410   | 3790   | 6850   |

CAL YR 1985 TOTAL 35550.50 MEAN 97.4 MAX 469 MIN -548 AC-FT 70510  
WTR YR 1986 TOTAL 61172.60 MEAN 168 MAX 667 MIN -588 AC-FT 121300

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 14.46 | 14.17 | 14.00 | 13.83 | 14.12 | 14.13 | 14.42 | 13.53 | 12.97 | 13.57 | 14.24 | 15.00 |
| 2           | 14.42 | 14.31 | 14.04 | 13.84 | 14.12 | 14.14 | 14.31 | 13.45 | 12.98 | 13.60 | 14.20 | 15.00 |
| 3           | 14.36 | 14.27 | 14.31 | 13.84 | 14.12 | 14.03 | 14.34 | 13.48 | 13.07 | 13.58 | 14.11 | 15.00 |
| 4           | 14.41 | 14.33 | 14.12 | 13.82 | 14.09 | 14.01 | 14.34 | 13.66 | 13.18 | 13.66 | 14.30 | 15.05 |
| 5           | 14.41 | 14.35 | 14.08 | 13.85 | 14.05 | 14.07 | 14.34 | 13.50 | 13.03 | 13.82 | 14.35 | 15.04 |
| 6           | 14.57 | 14.32 | 14.30 | 14.12 | 14.01 | 14.01 | 14.28 | 13.41 | 12.85 | 13.94 | 14.38 | 15.01 |
| 7           | 14.78 | 14.29 | 14.25 | 13.86 | 14.08 | 14.01 | 14.20 | 13.40 | 12.76 | 14.03 | 14.37 | 15.00 |
| 8           | 14.59 | 14.29 | 14.12 | 14.04 | 14.03 | 14.13 | 14.12 | 13.35 | 12.73 | 14.05 | 14.40 | 15.02 |
| 9           | 14.63 | 14.30 | 14.15 | 14.09 | 14.11 | 14.04 | 14.03 | 13.40 | 12.85 | 14.00 | 14.40 | 15.14 |
| 10          | 14.45 | 14.28 | 14.11 | 13.86 | 14.03 | 14.20 | 14.26 | 13.75 | 12.86 | 14.02 | 14.37 | 15.19 |
| 11          | 14.45 | 14.28 | 14.06 | 14.19 | 13.98 | 14.22 | 14.17 | 13.50 | 12.86 | 14.05 | 14.35 | 15.17 |
| 12          | 14.45 | 14.27 | 14.02 | 14.17 | 14.23 | 14.24 | 14.09 | 13.31 | 12.87 | 14.13 | 14.30 | 15.19 |
| 13          | 14.45 | 14.29 | 13.94 | 14.09 | 14.42 | 14.21 | 14.08 | 13.29 | 12.95 | 14.14 | 14.37 | 15.20 |
| 14          | 14.46 | 14.28 | 14.14 | 14.10 | 14.15 | 14.18 | 14.19 | 13.37 | 12.96 | 14.17 | 14.47 | 15.24 |
| 15          | 14.46 | 14.26 | 14.25 | 14.09 | 14.06 | 14.25 | 14.05 | 13.43 | 12.95 | 14.14 | 14.47 | 15.28 |
| 16          | 14.51 | 14.23 | 14.15 | 14.10 | 14.22 | 14.30 | 13.93 | 13.40 | 12.91 | 14.13 | 14.51 | 15.28 |
| 17          | 14.53 | 14.24 | 14.12 | 14.10 | 14.05 | 14.39 | 13.98 | 13.25 | 12.99 | 14.17 | 14.49 | 15.34 |
| 18          | 14.52 | 14.40 | 14.09 | 14.08 | 14.05 | 14.38 | 14.03 | 13.20 | 13.03 | 14.14 | 14.52 | 15.33 |
| 19          | 14.51 | 14.38 | 14.15 | 14.06 | 14.07 | 14.28 | 14.07 | 13.13 | 13.07 | 14.10 | 14.52 | 15.34 |
| 20          | 14.49 | 14.18 | 14.03 | 14.18 | 14.12 | 14.24 | 13.88 | 13.11 | 13.16 | 14.06 | 14.55 | 15.33 |
| 21          | 14.48 | 14.04 | 14.02 | 14.19 | 14.15 | 14.68 | 13.72 | 13.08 | 13.28 | 14.06 | 14.72 | 15.33 |
| 22          | 14.47 | 14.05 | 14.01 | 14.15 | 14.16 | 14.72 | 13.80 | 13.23 | 13.33 | 14.09 | 14.78 | 15.31 |
| 23          | 14.45 | 14.21 | 13.90 | 14.19 | 14.13 | 14.78 | 13.97 | 13.22 | 13.39 | 14.17 | 14.85 | 15.28 |
| 24          | 14.49 | 14.20 | 13.87 | 14.17 | 14.17 | 14.52 | 13.93 | 13.21 | 13.35 | 14.07 | 14.81 | 15.28 |
| 25          | 14.48 | 14.21 | 13.93 | 14.05 | 14.32 | 14.46 | 13.75 | 13.22 | 13.40 | 14.32 | 14.82 | 15.29 |
| 26          | 14.41 | 14.14 | 14.10 | 14.05 | 14.16 | 14.40 | 13.65 | 13.18 | 13.44 | 13.93 | 14.83 | 15.28 |
| 27          | 14.38 | 14.09 | 13.91 | 14.20 | 13.90 | 14.46 | 13.63 | 13.18 | 13.48 | 14.15 | 14.87 | 15.29 |
| 28          | 14.31 | 14.03 | 13.85 | 14.08 | 14.13 | 14.50 | 13.63 | 13.16 | 13.47 | 14.25 | 14.89 | 15.30 |
| 29          | 14.34 | 14.03 | 13.82 | 14.07 | ---   | 14.51 | 13.62 | 13.13 | 13.48 | 14.16 | 14.94 | 15.28 |
| 30          | 14.25 | 14.00 | 13.96 | 14.12 | ---   | 14.44 | 13.63 | 13.04 | 13.51 | 14.21 | 14.97 | 15.25 |
| 31          | 14.07 | ---   | 13.84 | 14.12 | ---   | 14.46 | ---   | 12.98 | ---   | 14.24 | 15.01 | ---   |
| MEAN        | 14.45 | 14.22 | 14.05 | 14.05 | 14.12 | 14.30 | 14.01 | 13.31 | 13.11 | 14.04 | 14.55 | 15.20 |
| MAX         | 14.78 | 14.40 | 14.31 | 14.20 | 14.42 | 14.78 | 14.42 | 13.75 | 13.51 | 14.32 | 15.01 | 15.34 |
| MIN         | 14.07 | 14.00 | 13.82 | 13.82 | 13.90 | 14.01 | 13.62 | 12.98 | 12.73 | 13.57 | 14.11 | 15.00 |
| CAL YR 1985 | MEAN  | 13.55 | MAX   | 15.28 | MIN   | 11.71 |       |       |       |       |       |       |
| WTR YR 1986 | MEAN  | 14.12 | MAX   | 15.34 | MIN   | 12.73 |       |       |       |       |       |       |



## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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02287400 MIAMI CANAL AT BROKEN DAM, NEAR MIAMI, FL

LOCATION.--Lat 25°56'00", long 80°25'50", in SW¼ sec.10, T.52 S., R.39 E., 15 ft from left bank, 0.5 mi downstream from levee 30, 13.6 mi upstream from salinity-control structure, 19 mi northwest of Miami, Dade County and 19.3 mi upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1959 to September 1967, October 1984 to current year.

GAGE.--Water-stage recorder and electromagnetic velocity meter recorder. Datum of gage is National Geodetic Vertical Datum of 1929. November 1959 to September 1967, dual water-stage and deflection vane recorder.

REMARKS.--Records poor. Flow affected by regulation at downstream salinity-control structure and by upstream storage release at control structure 32.

COOPERATION.--Records of control structure 32 operation are provided by South Florida Water Management District.

AVERAGE DISCHARGE.--7 years (1960-1967), 262 ft<sup>3</sup>/s, 189,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, indeterminate; maximum gage height, 6.21 ft July 30, 1966; minimum daily discharge, 33 ft<sup>3</sup>/s May 10, 1986; minimum gage height, 1.40 ft May 31, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 431 ft<sup>3</sup>/s Aug. 29; maximum gage height, 5.22 ft July 15 (estimated); minimum daily discharge, 33 ft<sup>3</sup>/s May 10; minimum gage height, 2.45 ft Nov. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL | AUG | SEP  |
|-------|------|------|------|------|------|------|------|------|------|-----|-----|------|
| 1     | 88   | 110  | 94   | 109  | 105  | 68   | 95   | e80  | 58   |     | --- | 224  |
| 2     | 100  | 98   | 88   | 101  | 95   | 72   | 101  | e80  | 61   |     | --- | 233  |
| 3     | 101  | 100  | 94   | 103  | 82   | 84   | 91   | e73  | e 43 |     | --- | 234  |
| 4     | 102  | 103  | 96   | 112  | 81   | 76   | 107  | e74  | e 63 |     | --- | 198  |
| 5     | 101  | 101  | 109  | 96   | 91   | 83   | 112  | e68  | e 62 |     | --- | 213  |
| 6     | 103  | 97   | 108  | 109  | 90   | 80   | 98   | e68  | e 62 |     | --- | 308  |
| 7     | 115  | 110  | 108  | 110  | 76   | 82   | 93   | 39   | e 62 |     | --- | 284  |
| 8     | 104  | 103  | 98   | 115  | 65   | 76   | 84   | 60   | e 65 |     | --- | 210  |
| 9     | 114  | 100  | 104  | 111  | 64   | 82   | e96  | 57   | e 68 |     | --- | 257  |
| 10    | 112  | 100  | 105  | 102  | 71   | 82   | e97  | 33   | e 67 |     | --- | 285  |
| 11    | 106  | 110  | 96   | 101  | 70   | 78   | e96  | 46   | e 66 |     | --- | 289  |
| 12    | 110  | 109  | 88   | 100  | 64   | 80   | e96  | 62   | e 67 |     | --- | 279  |
| 13    | 112  | 110  | 81   | 93   | 62   | 82   | e97  | e51  | e 69 |     | --- | 261  |
| 14    | 114  | 117  | 92   | 92   | 73   | 73   | e97  | e63  | e 89 |     | 418 | 226  |
| 15    | 111  | 115  | 94   | 95   | 66   | 68   | e97  | e63  | 91   |     | 421 | 159  |
| 16    | 109  | 106  | 92   | 90   | 65   | 62   | e97  | e63  | 90   |     | 403 | 93   |
| 17    | 102  | 99   | 95   | 90   | 70   | 57   | e97  | e63  | 80   |     | 207 | 88   |
| 18    | 106  | 98   | 95   | 86   | 76   | 55   | e97  | e62  | 79   |     | 319 | 90   |
| 19    | 103  | 97   | 99   | 79   | 61   | 61   | e96  | e62  | 81   |     | 223 | 91   |
| 20    | 126  | 90   | 91   | 82   | 61   | 66   | e97  | e62  | 85   |     | 211 | 68   |
| 21    | 116  | 92   | 99   | 87   | 59   | 79   | e96  | e63  | 91   |     | 296 | 58   |
| 22    | 114  | 93   | e97  | 85   | 64   | 61   | e95  | e65  | 98   |     | 304 | 91   |
| 23    | 116  | 99   | e83  | 86   | 62   | 68   | e95  | e65  | 107  |     | 333 | 95   |
| 24    | 116  | 107  | e83  | 82   | 67   | 69   | e95  | e64  | 117  |     | 338 | 93   |
| 25    | 114  | 110  | 84   | 85   | 58   | 71   | e89  | e64  | 124  |     | 269 | 77   |
| 26    | 114  | 101  | 86   | 85   | 64   | 99   | e88  | e64  | 131  |     | 228 | 84   |
| 27    | 116  | 97   | 99   | 92   | 65   | 94   | e88  | e51  | 131  |     | 282 | 84   |
| 28    | 116  | 98   | 95   | 98   | 68   | 85   | e88  | 53   | e138 |     | 356 | 78   |
| 29    | 111  | 95   | 87   | 96   | ---  | 93   | e81  | 55   | e139 |     | 431 | 74   |
| 30    | 116  | 100  | 93   | 93   | ---  | 101  | e81  | 58   | e112 |     | 371 | 103  |
| 31    | 123  | ---  | 109  | 104  | ---  | 96   | ---  | 62   | ---  |     | 203 | ---  |
| TOTAL | 3411 | 3065 | 2942 | 2969 | 1995 | 2383 | 2837 | 1893 | 2596 |     | --- | 4927 |
| MEAN  | 110  | 102  | 94.9 | 95.8 | 71.3 | 76.9 | 94.6 | 61.1 | 86.5 |     | --- | 164  |
| MAX   | 126  | 117  | 109  | 115  | 105  | 101  | 112  | 80   | 139  |     | --- | 308  |
| MIN   | 88   | 90   | 81   | 79   | 58   | 55   | 81   | 33   | 43   |     | --- | 58   |
| AC-FT | 6770 | 6080 | 5840 | 5890 | 3960 | 4730 | 5630 | 3750 | 5150 |     | --- | 9770 |

e Estimated

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02287400 MIAMI CANAL AT BROKEN DAM, NEAR MIAMI, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 2.98 | 2.94 | 2.78 | 2.68 | 2.73 | 2.67 | 3.20 | 2.58 | 2.67 | 3.58 | 4.07 | 3.98 |
| 2    | 3.06 | 2.91 | 2.77 | 2.68 | 2.73 | 2.64 | 3.12 | 2.55 | 2.72 | 3.54 | 4.08 | 3.98 |
| 3    | 3.20 | 2.89 | 2.77 | 2.66 | 2.72 | 2.63 | 3.07 | 2.51 | 2.73 | 4.18 | 4.06 | 4.01 |
| 4    | 3.10 | 2.89 | 2.86 | 2.66 | 2.71 | 2.62 | 3.03 | 2.54 | 2.66 | 4.95 | 4.11 | 4.09 |
| 5    | 3.12 | 2.89 | 3.00 | 2.66 | 2.70 | 2.61 | 2.98 | 2.61 | 2.63 | 5.01 | 4.21 | 4.21 |
| 6    | 3.05 | 2.87 | 2.95 | 2.65 | 2.69 | 2.59 | 2.96 | 2.60 | 2.60 | 5.05 | 4.16 | 4.22 |
| 7    | 3.05 | 2.88 | 2.98 | 2.75 | 2.72 | 2.58 | 2.94 | 2.54 | 2.58 | 5.07 | 4.11 | 4.24 |
| 8    | 2.95 | 2.88 | 2.96 | 2.86 | 2.78 | 2.58 | 2.92 | 2.54 | 2.96 | 5.14 | 4.07 | 4.25 |
| 9    | 3.05 | 2.92 | 2.94 | 3.05 | 2.76 | 2.60 | 2.83 | 2.58 | 3.25 | 5.13 | 4.03 | 4.22 |
| 10   | 3.07 | 2.88 | 2.94 | 3.22 | 2.73 | 2.83 | 2.88 | 2.84 | 3.14 | 5.15 | 4.04 | 4.16 |
| 11   | 2.91 | 2.95 | 2.93 | 3.17 | 2.70 | 2.95 | 2.85 | 2.77 | 3.06 | 5.17 | 4.16 | 4.11 |
| 12   | 2.98 | 2.94 | 2.91 | 3.09 | 2.70 | 2.79 | 2.86 | 2.73 | 3.15 | 5.16 | 4.17 | 4.07 |
| 13   | 2.98 | 2.88 | 2.89 | 3.03 | 2.69 | 2.82 | 2.92 | 2.69 | 3.28 | 5.15 | 4.17 | 4.04 |
| 14   | 2.96 | 2.88 | 2.86 | 2.94 | 2.68 | 2.82 | 2.92 | 2.71 | 3.43 | 5.13 | 4.15 | 4.00 |
| 15   | 2.92 | 2.88 | 2.89 | 2.89 | 2.67 | 2.85 | 2.91 | 2.72 | 3.44 | 5.22 | 4.10 | 3.58 |
| 16   | 2.90 | 2.87 | 2.89 | 2.92 | 2.67 | 2.87 | 2.87 | 2.70 | 3.57 | 4.86 | 4.10 | 3.17 |
| 17   | 2.90 | 2.89 | 2.90 | 2.89 | 2.66 | 2.84 | 2.88 | 2.66 | 3.55 | 4.57 | 4.14 | 3.11 |
| 18   | 2.91 | 2.78 | 2.87 | 2.87 | 2.82 | 2.86 | 2.87 | 2.64 | 3.44 | 4.27 | 4.16 | 3.09 |
| 19   | 3.13 | 2.63 | 2.86 | 2.85 | 2.87 | 2.88 | 2.86 | 2.60 | 3.39 | 3.93 | 4.18 | 3.03 |
| 20   | 3.10 | 2.86 | 2.85 | 2.83 | 2.84 | 2.86 | 2.88 | 2.56 | 3.33 | 3.86 | 4.11 | 3.01 |
| 21   | 3.04 | 2.88 | 2.83 | 2.85 | 2.81 | 2.95 | 2.85 | 2.74 | 3.53 | 3.60 | 4.08 | 3.07 |
| 22   | 2.99 | 2.90 | 2.80 | 2.84 | 2.80 | 2.86 | 2.78 | 2.96 | 3.46 | 3.34 | 4.04 | 3.05 |
| 23   | 2.95 | 2.78 | 2.78 | 2.83 | 2.78 | 2.86 | 2.77 | 2.89 | 3.47 | 3.36 | 4.02 | 2.99 |
| 24   | 2.98 | 2.73 | 2.79 | 2.82 | 2.75 | 2.88 | 2.77 | 2.83 | 3.49 | 3.36 | 4.00 | 2.99 |
| 25   | 2.95 | 2.70 | 2.85 | 2.83 | 2.72 | 2.89 | 2.75 | 2.84 | 3.41 | 3.61 | 4.01 | 2.95 |
| 26   | 2.91 | 2.72 | 2.83 | 2.82 | 2.69 | 3.06 | 2.72 | 2.79 | 3.37 | 4.14 | 4.02 | 2.90 |
| 27   | 2.92 | 2.81 | 2.80 | 2.75 | 2.69 | 3.36 | 2.70 | 2.85 | 3.39 | 4.16 | 4.01 | 2.84 |
| 28   | 2.93 | 2.84 | 2.84 | 2.79 | 2.69 | 3.40 | 2.67 | 2.80 | 3.42 | 4.18 | 4.01 | 2.79 |
| 29   | 2.94 | 2.83 | 2.79 | 2.79 | ---  | 3.37 | 2.63 | 2.75 | 3.41 | 4.18 | 4.00 | 2.76 |
| 30   | 3.01 | 2.79 | 2.73 | 2.78 | ---  | 3.36 | 2.60 | 2.70 | 3.48 | 4.15 | 3.98 | 2.75 |
| 31   | 2.95 | ---  | 2.71 | 2.74 | ---  | 3.31 | ---  | 2.66 | ---  | 4.11 | 4.01 | ---  |
| MEAN | 3.00 | 2.85 | 2.86 | 2.84 | 2.73 | 2.88 | 2.87 | 2.69 | 3.20 | 4.40 | 4.08 | 3.52 |
| MAX  | 3.20 | 2.95 | 3.00 | 3.22 | 2.87 | 3.40 | 3.20 | 2.96 | 3.57 | 5.22 | 4.21 | 4.25 |
| MIN  | 2.90 | 2.63 | 2.71 | 2.65 | 2.66 | 2.58 | 2.60 | 2.51 | 2.58 | 3.34 | 3.98 | 2.75 |

|             |           |          |          |
|-------------|-----------|----------|----------|
| CAL YR 1985 | MEAN 2.72 | MAX 3.75 | MIN 1.97 |
| WTR YR 1986 | MEAN 3.16 | MAX 5.22 | MIN 2.51 |

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

171

02288600 MIAMI CANAL AT N.W. 36TH STREET, MIAMI, FL  
(National stream-quality accounting network station)

LOCATION.--Lat 25°48'29", long 80°15'49", in NE¼ sec.29, T.53 S., R.41 E., Dade County, Hydrologic Unit 03090202, on right bank at downstream end of N.W. 36th Street Bridge fender at Miami, 200 ft upstream from salinity-control structure S-26.

DRAINAGE AREA.--Indeterminate.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1959 to current year.

GAGE.--Water-stage recorder and electromagnetic velocity meter recorder. Datum of gage is National Geodetic Vertical Datum of 1929. (Dade County bench mark).

REMARKS.--Records fair, except those for estimated daily discharges, which are poor. Flow affected by tide and is occasionally reversed. Some seepage losses above station into Miami-Dade Water and Sewer Authority well field for ground-water withdrawals. Natural flow materially affected by levee and control structures 31, 32 and 32A about 14 mi upstream, and structure 26 downstream. Discharge computed from continuous velocity record obtained from recording electromagnetic velocity meter.

COOPERATION.--Gate-opening record provided by South Florida Water Management District.

AVERAGE DISCHARGE.--26 years (1960-85), 265 ft<sup>3</sup>/s, 192,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,900 ft<sup>3</sup>/s Oct. 2, 1959; maximum gage height, 5.14 ft Sept. 8, 1965; maximum reverse flow, 1,400 ft<sup>3</sup>/s, estimated, Sept. 8, 1965, from hurricane tide; minimum gage height, -0.55 ft Apr. 26, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 559 ft<sup>3</sup>/s Aug. 4; maximum gage height, 3.52 ft May 21; no flow for many days during year; minimum gage height, 0.54 ft July 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT   | NOV     | DEC    | JAN     | FEB    | MAR     | APR     | MAY | JUN  | JUL   | AUG   | SEP     |
|-------|-------|---------|--------|---------|--------|---------|---------|-----|------|-------|-------|---------|
| 1     | 197   | 213     | .00    | 69      | e .00  | .00     | 393     | .00 | .00  | e203  | e497  | e475    |
| 2     | 209   | 200     | .00    | 79      | e .00  | .00     | 317     | .00 | .00  | e287  | e492  | e388    |
| 3     | 220   | 201     | .00    | 90      | .00    | .00     | 296     | .00 | .00  | e556  | e519  | e405    |
| 4     | 232   | 177     | e 29   | 81      | .00    | .00     | 214     | .00 | .00  | e526  | e559  | 377     |
| 5     | 276   | 118     | e132   | 75      | .00    | .00     | 196     | .00 | .00  | e526  | e520  | 391     |
| 6     | 254   | 121     | e 84   | 75      | .00    | .00     | 164     | .00 | .00  | e524  | e500  | 392     |
| 7     | 280   | 102     | .00    | 51      | .00    | .00     | 101     | .00 | .00  | e524  | e480  | 368     |
| 8     | 124   | 88      | .00    | 102     | .00    | .00     | 113     | .00 | .00  | e510  | e478  | 339     |
| 9     | 43    | 43      | .00    | 187     | .00    | .00     | 138     | .00 | e115 | e499  | e468  | 477     |
| 10    | 71    | 104     | .00    | 19      | .00    | 150     | 32      | 48  | 163  | e503  | e446  | 495     |
| 11    | 186   | 158     | .00    | .00     | .00    | 203     | 74      | .00 | 79   | 422   | e446  | 506     |
| 12    | 115   | 127     | .00    | .00     | .00    | 224     | 51      | .00 | .00  | e517  | e456  | 441     |
| 13    | 117   | 149     | .00    | 34      | .00    | 136     | 113     | .00 | ---  | e542  | e415  | 450     |
| 14    | 102   | 125     | e 25   | .00     | .00    | 202     | 45      | .00 | ---  | e499  | e435  | 312     |
| 15    | 98    | 87      | .00    | 2.0     | .00    | 195     | 31      | .00 | ---  | e507  | e450  | 140     |
| 16    | 162   | 77      | .00    | 56      | .00    | 155     | 57      | .00 | ---  | e483  | 422   | 50      |
| 17    | 113   | .00     | e 18   | 123     | .00    | 114     | 7.7     | .00 | ---  | e505  | 383   | 20      |
| 18    | 146   | 174     | e 5.9  | 124     | e100   | 88      | 10      | .00 | ---  | e526  | 377   | .00     |
| 19    | 35    | 79      | .00    | 42      | .00    | 32      | .00     | .00 | ---  | e515  | 453   | 65      |
| 20    | 307   | .00     | .00    | 66      | .00    | .00     | .00     | .00 | ---  | e470  | 444   | .00     |
| 21    | 261   | .00     | .00    | .00     | .00    | 141     | 5.4     | --- | ---  | e219  | 516   | 89      |
| 22    | 219   | 54      | .00    | .00     | .00    | 163     | 12      | --- | ---  | 109   | 499   | 170     |
| 23    | 185   | 131     | .00    | .00     | .00    | .00     | .00     | --- | ---  | 103   | 496   | 156     |
| 24    | 225   | 120     | .00    | .00     | 4.3    | 17      | .00     | --- | ---  | e383  | e508  | 122     |
| 25    | 147   | 118     | .00    | .00     | .00    | 13      | .00     | --- | ---  | e474  | e484  | 121     |
| 26    | 171   | 41      | .00    | 33      | .00    | 244     | .00     | --- | ---  | e466  | e478  | 137     |
| 27    | 151   | .00     | .00    | 3.6     | .00    | 229     | .00     | --- | ---  | e464  | e490  | 150     |
| 28    | 137   | .00     | e41    | .00     | .00    | 265     | .00     | .00 | ---  | e475  | e496  | 138     |
| 29    | 188   | .00     | e76    | .00     | ---    | 422     | .00     | .00 | ---  | e460  | 517   | 118     |
| 30    | 220   | .00     | e70    | .00     | ---    | 509     | .00     | .00 | ---  | e487  | 440   | 111     |
| 31    | 236   | ---     | e91    | .00     | ---    | 456     | ---     | .00 | ---  | e496  | 407   | ---     |
| TOTAL | 5427  | 2807.00 | 571.90 | 1311.60 | 104.30 | 3958.00 | 2370.10 | --- | ---  | 13780 | 14571 | 7403.00 |
| MEAN  | 175   | 93.6    | 18.4   | 42.3    | 3.73   | 128     | 79.0    | --- | ---  | 445   | 470   | 247     |
| MAX   | 307   | 213     | 132    | 187     | 100    | 509     | 393     | --- | ---  | 556   | 559   | 506     |
| MIN   | 35    | .00     | .00    | .00     | .00    | .00     | .00     | --- | ---  | 103   | 377   | .00     |
| AC-FT | 10760 | 5570    | 1130   | 2600    | 207    | 7850    | 4700    | --- | ---  | 27330 | 28900 | 14680   |

CAL YR 1985 TOTAL 23425.70 MEAN 64.2 MAX 336 MIN .00 AC-FT 46460

e Estimated

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02288600 MIAMI CANAL AT N.W. 36TH STREET, MIAMI, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 2.65 | 2.66 | 2.65 | 2.52 | 2.70 | 2.76 | 2.57 | 2.60 | 2.68 | 2.67 | 1.55 | 1.96 |
| 2    | 2.73 | 2.65 | 2.63 | 2.60 | 2.63 | 2.70 | 2.57 | 2.58 | 2.73 | 2.64 | 1.54 | 2.09 |
| 3    | 2.65 | 2.61 | 2.63 | 2.63 | 2.62 | 2.69 | 2.57 | 2.57 | 2.72 | 2.40 | 1.45 | 2.13 |
| 4    | 2.66 | 2.59 | 2.63 | 2.63 | 2.60 | 2.68 | 2.65 | 2.59 | 2.66 | 1.85 | 1.39 | 2.23 |
| 5    | 2.67 | 2.65 | 2.60 | 2.65 | 2.60 | 2.67 | 2.64 | 2.65 | 2.62 | 1.83 | 1.54 | 2.31 |
| 6    | 2.64 | 2.63 | 2.65 | 2.62 | 2.59 | 2.66 | 2.67 | 2.63 | 2.59 | 1.81 | 1.62 | 2.35 |
| 7    | 2.65 | 2.64 | 2.78 | 2.70 | 2.65 | 2.64 | 2.73 | 2.60 | 2.61 | 1.80 | 1.61 | 2.50 |
| 8    | 2.58 | 2.68 | 2.78 | 2.76 | 2.73 | 2.62 | 2.74 | 2.60 | 2.56 | 1.79 | 1.56 | 2.60 |
| 9    | 2.95 | 2.75 | 2.78 | 2.67 | 2.70 | 2.59 | 2.64 | 2.67 | 2.64 | 1.89 | 1.63 | 2.29 |
| 10   | 2.88 | 2.71 | 2.77 | 2.76 | 2.67 | 2.65 | 2.83 | 2.86 | 2.70 | 1.96 | 1.70 | 2.14 |
| 11   | 2.61 | 2.65 | 2.78 | 2.70 | 2.64 | 2.62 | 2.74 | 2.84 | 2.82 | 1.80 | 1.81 | 2.03 |
| 12   | 2.70 | 2.72 | 2.78 | 2.63 | 2.63 | 2.44 | 2.77 | 2.79 | 2.85 | 1.77 | 1.89 | 1.96 |
| 13   | 2.72 | 2.65 | 2.78 | 2.64 | 2.62 | 2.67 | 2.72 | 2.74 | 2.71 | 1.68 | 1.79 | 1.94 |
| 14   | 2.72 | 2.65 | 2.70 | 2.58 | 2.60 | 2.61 | 2.78 | 2.73 | 2.74 | 1.60 | 1.75 | 1.90 |
| 15   | 2.70 | 2.67 | 2.78 | 2.73 | 2.62 | 2.64 | 2.84 | 2.74 | 2.62 | 1.57 | 1.74 | 2.34 |
| 16   | 2.65 | 2.67 | 2.79 | 2.85 | 2.60 | 2.68 | 2.78 | 2.72 | 2.67 | 1.55 | 1.87 | 2.73 |
| 17   | 2.71 | 2.76 | 2.75 | 2.80 | 2.59 | 2.71 | 2.89 | 2.67 | 2.61 | 1.43 | 2.03 | 2.75 |
| 18   | 2.69 | 2.34 | 2.74 | 2.79 | 2.58 | 2.76 | 2.85 | 2.65 | 2.61 | 1.40 | 2.21 | 2.80 |
| 19   | 2.97 | 2.23 | 2.74 | 2.79 | 2.86 | 2.85 | 2.86 | 2.62 | 2.65 | 1.36 | 2.23 | 2.68 |
| 20   | 2.63 | 2.68 | 2.73 | 2.80 | 2.88 | 2.89 | 2.88 | 2.59 | 2.71 | 1.39 | 1.95 | 2.75 |
| 21   | 2.64 | 2.74 | 2.69 | 2.82 | 2.85 | 2.67 | 2.85 | 2.69 | 2.67 | 2.19 | 1.82 | 2.76 |
| 22   | 2.63 | 2.73 | 2.67 | 2.85 | 2.84 | 2.62 | 2.79 | 2.35 | 2.67 | 2.71 | 1.68 | 2.69 |
| 23   | 2.66 | 2.51 | 2.66 | 2.85 | 2.84 | 2.85 | 2.80 | 2.67 | 2.66 | 2.77 | 1.71 | 2.62 |
| 24   | 2.65 | 2.47 | 2.68 | 2.86 | 2.82 | 2.86 | 2.78 | 2.66 | 2.62 | 1.97 | 1.76 | 2.60 |
| 25   | 2.71 | 2.42 | 2.76 | 2.85 | 2.80 | 2.86 | 2.77 | 2.77 | 2.63 | 1.48 | 1.83 | 2.56 |
| 26   | 2.66 | 2.52 | 2.73 | 2.78 | 2.75 | 2.70 | 2.74 | 2.72 | 2.65 | 1.53 | 1.87 | 2.49 |
| 27   | 2.66 | 2.68 | 2.71 | 2.77 | 2.76 | 2.43 | 2.73 | 2.86 | 2.64 | 1.56 | 1.79 | 2.42 |
| 28   | 2.71 | 2.71 | 2.71 | 2.83 | 2.76 | 2.71 | 2.71 | 2.82 | 2.59 | 1.70 | 1.82 | 2.40 |
| 29   | 2.63 | 2.70 | 2.60 | 2.81 | ---  | 2.71 | 2.68 | 2.77 | 2.61 | 1.68 | 1.87 | 2.39 |
| 30   | 2.65 | 2.65 | 2.55 | 2.82 | ---  | 2.68 | 2.64 | 2.72 | 2.61 | 1.63 | 1.96 | 2.39 |
| 31   | 2.62 | ---  | 2.53 | 2.77 | ---  | 2.65 | ---  | 2.68 | ---  | 1.54 | 2.06 | ---  |
| MEAN | 2.69 | 2.62 | 2.70 | 2.74 | 2.70 | 2.69 | 2.74 | 2.68 | 2.66 | 1.84 | 1.78 | 2.39 |
| MAX  | 2.97 | 2.76 | 2.79 | 2.86 | 2.88 | 2.89 | 2.89 | 2.86 | 2.85 | 2.77 | 2.23 | 2.80 |
| MIN  | 2.58 | 2.23 | 2.53 | 2.52 | 2.58 | 2.43 | 2.57 | 2.35 | 2.56 | 1.36 | 1.39 | 1.90 |

|             |           |          |          |
|-------------|-----------|----------|----------|
| CAL YR 1985 | MEAN 2.60 | MAX 2.97 | MIN 2.14 |
| WTR YR 1986 | MEAN 2.52 | MAX 2.97 | MIN 1.36 |

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WATER-QUALITY RECORDS

REMARKS.--Samples collected periodically since 1939 for specific conductance and chlorides. Sites also sampled as a part of QW investigations. Station has been operated since 1974 as part of National Stream Quality Accounting Network.

[illegible]



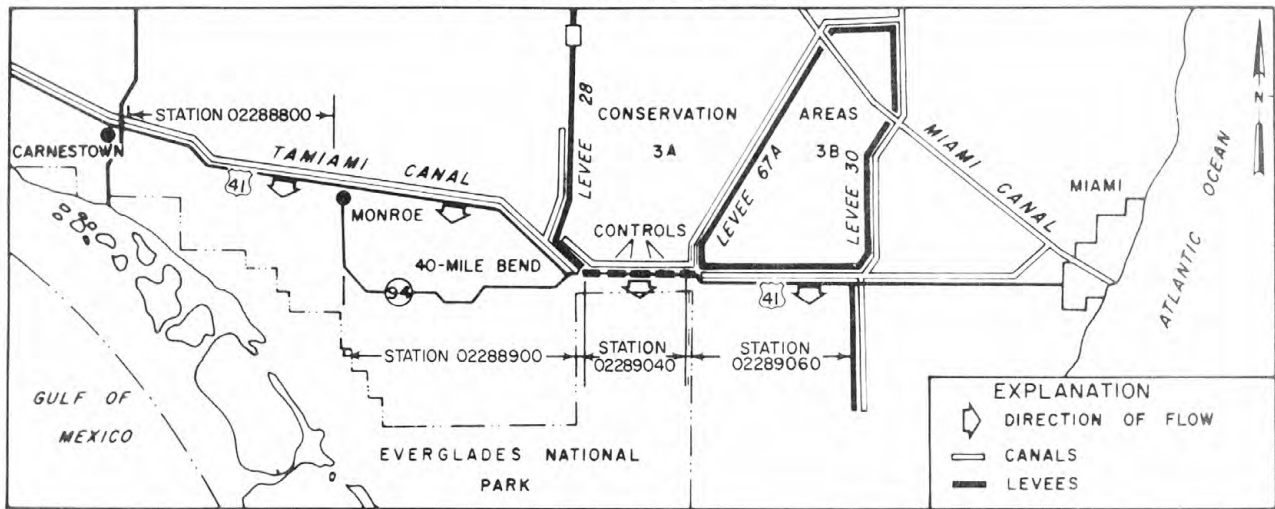
02288600 MIAMI CANAL AT NW 36TH STREET, MIAMI, FL--Continued

## WATER-QUALITY RECORDS

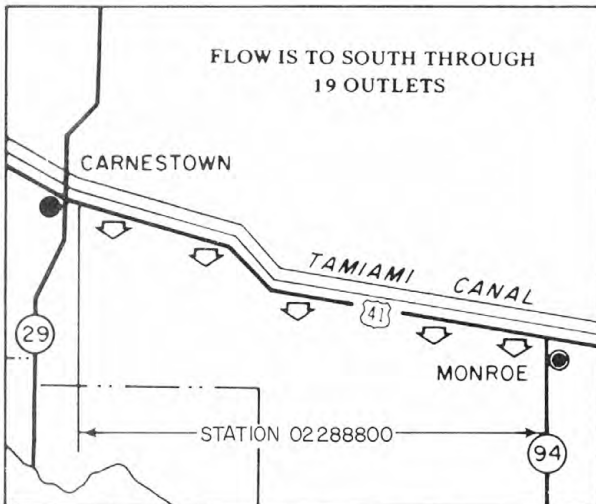
WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

[illegible][illegible][illegible]

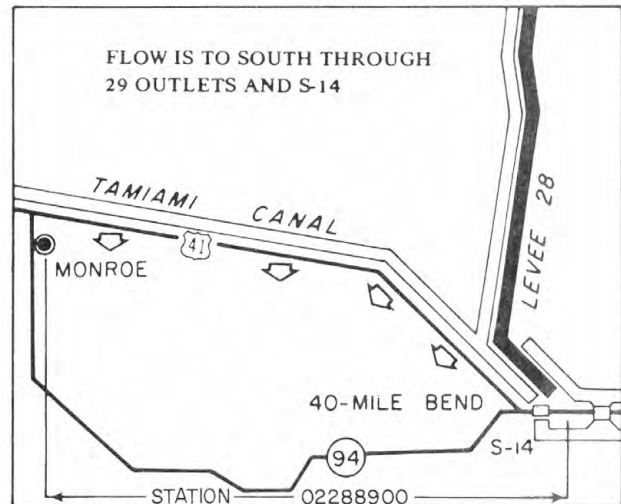
# TAMIAMI CANAL OUTLETS



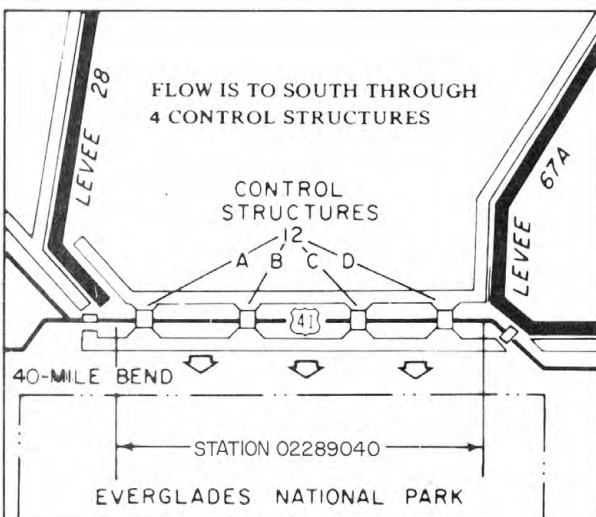
LOCATION



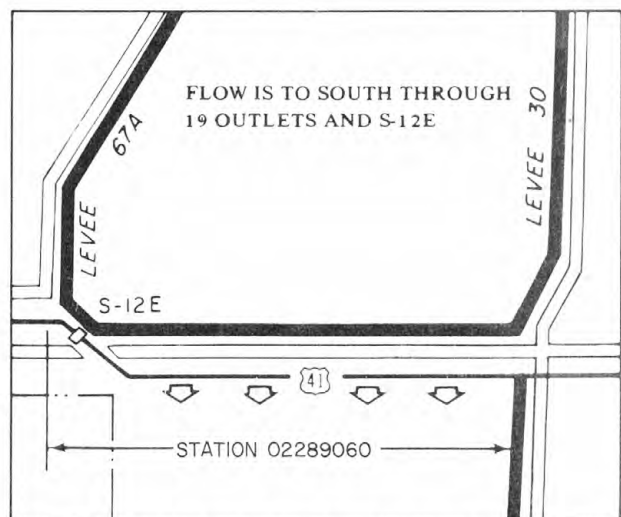
STATION 02288800 MONROE TO CARNESTOWN



STATION 02288900 40-MILE BEND TO MONROE



STATION 02289040 LEVEE 67-A TO 40-MILE BEND



STATION 02289060 LEVEE 30 TO LEVEE 67-A

Figure 11. Tamiami Canal Outlets.

## BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02288800 TAMiami CANAL OUTLETS, MONROE TO CARNESTOWN, FL

LOCATION.--Lat 25°53'10", long 81°15'30", in NW¼ sec.6, T.53 S., R.31 E., Collier County, Hydrologic Unit 03090204, on downstream side of bridge 84 on U.S. Highway 41, 7 mi east of Carnestown, and 10 mi west of Monroe.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to May 2, 1963, at site 2 mi east at datum 0.93 ft lower. May 2, 1963, to Feb. 10, 1965, at site on west bank of unnamed lateral 30 ft downstream.

REMARKS.--No estimated daily discharges. Records fair. Figures of discharge consist of runoff from Big Cypress Watershed as represented by flow through all the outlets of the Tamiami Canal from Monroe, 55 mi west of Miami, to a point 1 mi east of the intersection with State Highway 29 at Carnestown. Flow at westernmost outlets slightly affected by tide.

AVERAGE DISCHARGE.--25 years, 385 ft<sup>3</sup>/s, 278,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 6,010 ft<sup>3</sup>/s Sept. 13, 1960; maximum gage height, 5.90 ft present datum Sept. 14, 1960; no flow for many days in some years; minimum gage height observed, -0.43 ft present datum May 30, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,060 ft<sup>3</sup>/s June 30; maximum gage height, 3.90 ft Aug. 26; minimum daily discharge 0.32 ft<sup>3</sup>/s May 11; minimum gage height, 0.62 ft May 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC  | JAN  | FEB  | MAR   | APR   | MAY    | JUN     | JUL   | AUG   | SEP   |
|-------|-------|-------|------|------|------|-------|-------|--------|---------|-------|-------|-------|
| 1     | 274   | 214   | 220  | 49   | 42   | 38    | 13    | 5.3    | 2.0     | 2050  | 835   | 1240  |
| 2     | 298   | 222   | 202  | 46   | 40   | 30    | 12    | 5.4    | 9.2     | 2000  | 768   | 1190  |
| 3     | 413   | 209   | 184  | 42   | 38   | 22    | 11    | 4.2    | 14      | 2000  | 674   | 1130  |
| 4     | 740   | 282   | 165  | 39   | 36   | 19    | 9.4   | 2.5    | 13      | 1890  | 616   | 1100  |
| 5     | 933   | 277   | 150  | 37   | 34   | 17    | 6.5   | 1.3    | 11      | 1790  | 633   | 1050  |
| 6     | 1100  | 246   | 138  | 31   | 36   | 13    | 5.5   | 1.0    | 12      | 1780  | 644   | 995   |
| 7     | 1080  | 224   | 124  | 38   | 35   | 12    | 6.4   | .88    | 13      | 1720  | 646   | 943   |
| 8     | 1000  | 205   | 112  | 97   | 33   | 11    | 7.9   | .86    | 15      | 1620  | 733   | 919   |
| 9     | 906   | 188   | 102  | 102  | 31   | 8.7   | 12    | 1.9    | 14      | 1540  | 922   | 901   |
| 10    | 804   | 174   | 93   | 125  | 29   | 10    | 9.8   | 1.6    | 13      | 1570  | 931   | 933   |
| 11    | 706   | 166   | 86   | 165  | 27   | 11    | 6.7   | .32    | 12      | 1580  | 892   | 1010  |
| 12    | 631   | 157   | 79   | 174  | 26   | 10    | 7.2   | .96    | 14      | 1680  | 939   | 1080  |
| 13    | 609   | 146   | 74   | 172  | 21   | 10    | 20    | 1.6    | 26      | 1670  | 926   | 1110  |
| 14    | 659   | 139   | 71   | 163  | 17   | 11    | 25    | 1.3    | 79      | 1610  | 954   | 1090  |
| 15    | 682   | 133   | 67   | 152  | 16   | 9.8   | 19    | .58    | 135     | 1480  | 1040  | 1050  |
| 16    | 638   | 127   | 60   | 141  | 14   | 8.8   | 17    | .41    | 179     | 1330  | 1190  | 1000  |
| 17    | 583   | 121   | 58   | 134  | 13   | 9.2   | 13    | 2.6    | 272     | 1150  | 1230  | 978   |
| 18    | 533   | 115   | 56   | 124  | 27   | 7.4   | 7.2   | 7.5    | 327     | 1040  | 1260  | 936   |
| 19    | 494   | 123   | 53   | 121  | 41   | 8.0   | 3.9   | 8.1    | 350     | 1020  | 1340  | 880   |
| 20    | 465   | 199   | 50   | 110  | 37   | 9.4   | 3.1   | 9.2    | 409     | 939   | 1380  | 841   |
| 21    | 488   | 237   | 47   | 100  | 32   | 18    | 7.7   | 10     | 490     | 913   | 1400  | 883   |
| 22    | 397   | 291   | 45   | 90   | 28   | 18    | 10    | 11     | 857     | 811   | 1400  | 836   |
| 23    | 358   | 317   | 43   | 83   | 27   | 11    | 6.6   | 11     | 1110    | 713   | 1420  | 823   |
| 24    | 320   | 316   | 47   | 76   | 27   | 7.4   | 3.6   | 9.2    | 1240    | 673   | 1430  | 789   |
| 25    | 285   | 307   | 51   | 71   | 25   | 5.7   | 3.9   | 6.9    | 1320    | 910   | 1500  | 744   |
| 26    | 250   | 293   | 46   | 66   | 20   | 12    | 6.0   | 5.2    | 1550    | 1260  | 1640  | 701   |
| 27    | 243   | 278   | 42   | 64   | 19   | 28    | 7.6   | 4.0    | 1630    | 1230  | 1630  | 648   |
| 28    | 254   | 266   | 50   | 57   | 24   | 28    | 7.8   | 2.5    | 1700    | 1170  | 1580  | 613   |
| 29    | 241   | 252   | 66   | 52   | ---  | 23    | 7.5   | 1.5    | 1810    | 1150  | 1500  | 606   |
| 30    | 219   | 238   | 61   | 52   | ---  | 18    | 6.2   | .90    | 2060    | 1040  | 1400  | 572   |
| 31    | 207   | ---   | 53   | 45   | ---  | 16    | ---   | 1.3    | ---     | 908   | 1300  | ---   |
| TOTAL | 16755 | 6462  | 2695 | 2818 | 795  | 460.4 | 282.5 | 121.01 | 15686.2 | 42237 | 34753 | 27541 |
| MEAN  | 540   | 215   | 86.9 | 90.9 | 28.4 | 14.9  | 9.42  | 3.90   | 523     | 1362  | 1121  | 918   |
| MAX   | 1100  | 317   | 220  | 174  | 42   | 38    | 25    | 11     | 2060    | 2050  | 1640  | 1240  |
| MIN   | 207   | 115   | 42   | 31   | 13   | 5.7   | 3.1   | .32    | 2.0     | 673   | 616   | 572   |
| AC-FT | 33230 | 12820 | 5350 | 5590 | 1580 | 913   | 560   | 240    | 31110   | 83780 | 68930 | 54630 |

CAL YR 1985 TOTAL 140756.88 MEAN 386 MAX 5220 MIN .00 AC-FT 279200  
WTR YR 1986 TOTAL 150606.11 MEAN 413 MAX 2060 MIN .32 AC-FT 298700

## BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

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02288800 TAMIAHI CANAL OUTLETS, MONROE TO CARNESTOWN, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 2.71 | 2.68 | 2.84 | 2.20 | 2.13 | 1.75 | 1.33 | 1.27 | 1.11 | 3.86 | 2.92 | 3.60 |
| 2    | 2.70 | 2.69 | 2.80 | 2.17 | 2.10 | 1.64 | 1.08 | 1.06 | 1.20 | 3.84 | 2.85 | 3.57 |
| 3    | 2.83 | 2.65 | 2.76 | 2.14 | 2.07 | 1.53 | 1.08 | 1.02 | 1.32 | 3.86 | 2.75 | 3.54 |
| 4    | 3.22 | 2.83 | 2.72 | 2.11 | 2.04 | 1.46 | 1.03 | .93  | 1.30 | 3.80 | 2.68 | 3.54 |
| 5    | 3.35 | 2.82 | 2.68 | 2.09 | 2.01 | 1.41 | .94  | .85  | 1.25 | 3.74 | 2.70 | 3.52 |
| 6    | 3.44 | 2.74 | 2.65 | 2.03 | 2.02 | 1.32 | .91  | .84  | 1.27 | 3.73 | 2.71 | 3.49 |
| 7    | 3.41 | 2.68 | 2.61 | 2.10 | 2.00 | 1.27 | .94  | .84  | 1.30 | 3.70 | 2.72 | 3.47 |
| 8    | 3.35 | 2.63 | 2.57 | 2.50 | 1.96 | 1.24 | .99  | .84  | 1.33 | 3.64 | 2.87 | 3.47 |
| 9    | 3.26 | 2.58 | 2.54 | 2.54 | 1.93 | 1.17 | 1.09 | .96  | 1.31 | 3.59 | 3.14 | 3.47 |
| 10   | 3.16 | 2.54 | 2.51 | 2.66 | 1.89 | 1.18 | 1.04 | .95  | 1.29 | 3.61 | 3.20 | 3.52 |
| 11   | 3.05 | 2.51 | 2.49 | 2.82 | 1.87 | 1.20 | .95  | .78  | 1.28 | 3.62 | 3.20 | 3.61 |
| 12   | 2.97 | 2.48 | 2.46 | 2.85 | 1.84 | 1.16 | .97  | .91  | 1.32 | 3.68 | 3.30 | 3.69 |
| 13   | 2.94 | 2.44 | 2.44 | 2.84 | 1.76 | 1.14 | 1.21 | .99  | 1.37 | 3.67 | 3.29 | 3.73 |
| 14   | 3.00 | 2.41 | 2.44 | 2.82 | 1.68 | 1.15 | 1.32 | .98  | 1.61 | 3.63 | 3.31 | 3.74 |
| 15   | 3.03 | 2.39 | 2.43 | 2.78 | 1.64 | 1.11 | 1.23 | .90  | 1.72 | 3.55 | 3.39 | 3.72 |
| 16   | 3.00 | 2.37 | 2.40 | 2.74 | 1.60 | 1.09 | 1.18 | .78  | 1.73 | 3.45 | 3.53 | 3.70 |
| 17   | 2.96 | 2.34 | 2.40 | 2.71 | 1.56 | 1.09 | 1.12 | .91  | 1.84 | 3.32 | 3.56 | 3.69 |
| 18   | 2.93 | 2.32 | 2.37 | 2.66 | 1.75 | 1.04 | .97  | 1.16 | 1.98 | 3.22 | 3.60 | 3.66 |
| 19   | 2.90 | 2.35 | 2.34 | 2.65 | 1.91 | 1.05 | .86  | 1.18 | 2.06 | 3.19 | 3.65 | 3.61 |
| 20   | 2.89 | 2.62 | 2.31 | 2.61 | 1.85 | 1.08 | .83  | 1.21 | 2.20 | 3.12 | 3.68 | 3.58 |
| 21   | 2.86 | 2.74 | 2.28 | 2.55 | 1.80 | 1.25 | 1.03 | 1.23 | 2.36 | 3.10 | 3.70 | 3.58 |
| 22   | 2.83 | 2.88 | 2.25 | 2.50 | 1.74 | 1.25 | 1.11 | 1.25 | 2.90 | 3.00 | 3.70 | 3.58 |
| 23   | 2.79 | 2.96 | 2.22 | 2.46 | 1.72 | 1.11 | 1.02 | 1.25 | 3.23 | 2.89 | 3.72 | 3.58 |
| 24   | 2.75 | 2.97 | 2.24 | 2.43 | 1.71 | 1.01 | .90  | 1.21 | 3.36 | 2.84 | 3.73 | 3.54 |
| 25   | 2.70 | 2.97 | 2.27 | 2.39 | 1.67 | .95  | .92  | 1.14 | 3.42 | 3.02 | 3.78 | 3.51 |
| 26   | 2.65 | 2.95 | 2.21 | 2.36 | 1.58 | 1.10 | 1.02 | 1.07 | 3.57 | 3.28 | 3.87 | 3.46 |
| 27   | 2.66 | 2.93 | 2.17 | 2.34 | 1.55 | 1.36 | 1.09 | 1.02 | 3.62 | 3.26 | 3.86 | 3.41 |
| 28   | 2.72 | 2.92 | 2.22 | 2.29 | 1.61 | 1.36 | 1.11 | .93  | 3.66 | 3.21 | 3.83 | 3.37 |
| 29   | 2.72 | 2.90 | 2.33 | 2.25 | ---  | 1.29 | 1.11 | .84  | 3.72 | 3.20 | 3.77 | 3.37 |
| 30   | 2.69 | 2.87 | 2.28 | 2.22 | ---  | 1.22 | 1.07 | .79  | 3.86 | 3.11 | 3.71 | 3.33 |
| 31   | 2.66 | ---  | 2.23 | 2.18 | ---  | 1.18 | ---  | .84  | ---  | 2.99 | 3.64 | ---  |
| MEAN | 2.94 | 2.67 | 2.43 | 2.45 | 1.82 | 1.23 | 1.05 | 1.00 | 2.12 | 3.41 | 3.37 | 3.56 |
| MAX  | 3.44 | 2.97 | 2.84 | 2.85 | 2.13 | 1.75 | 1.33 | 1.27 | 3.86 | 3.86 | 3.87 | 3.74 |
| MIN  | 2.65 | 2.32 | 2.17 | 2.03 | 1.55 | .95  | .83  | .78  | 1.11 | 2.84 | 2.68 | 3.33 |

CAL YR 1985 MEAN 1.90 MAX 5.01 MIN -.05  
WTR YR 1986 MEAN 2.34 MAX 3.87 MIN .78

## BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02288900 TAMIAAMI CANAL OUTLETS, 40-MILE BEND TO MONROE, FL  
(National stream-quality accounting network station)

LOCATION.--Lat 25°51'05", long 80°58'50", in SW¼ sec.13, T.53 S., R.33 E., Collier County, Hydrologic Unit 03090202, on south bank, 25 ft east of bridge 105 on U.S. Highway 41, and 54 mi west of Miami, Dade County.

DRAINAGE AREA.--Indeterminate.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1939 to September 1963 (monthly discharge only). October 1963 to current year. Prior to October 1963, published as Tamiami Canal at bridge 105, near Miami (auxiliary). Records of gage height prior to October 1963 are available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Feb. 20, 1952, nonrecording gage and Feb. 20, 1952, to May 28, 1952, water-stage recorder, at same site at datum 0.37 ft higher.

AVERAGE DISCHARGE.--46 years, 274 ft<sup>3</sup>/s, 198,500 acre-ft/yr.

REMARKS.--Records fair except those below 20 ft<sup>3</sup>/s, and those for estimated periods which are poor. Figures of daily discharge consist of runoff from Big Cypress Watershed and the Everglades as represented by flow through all 29 bridges from bridge 28 to 22 and bridge 117 to 96. Prior to October 1963, daily discharge for this portion of canal was published as part of the total daily discharge of station, Tamiami Canal outlets, Miami to Monroe (station 02289000).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,800 ft<sup>3</sup>/s July 2, 1966, from rating curve extended above 1,700 ft<sup>3</sup>/s; maximum gage height, 10.01 ft Oct. 20, 1947 (present datum); no flow for many days in some years; minimum gage height, 2.65 ft May 26, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,370 ft<sup>3</sup>/s Aug. 19; maximum gage height, 8.62 ft Aug. 18, 19; minimum daily discharge, 0.86 ft<sup>3</sup>/s May 23; minimum gage height, 5.23 ft June 1; minimum gage height, 3.87 ft May 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT   | NOV  | DEC  | JAN  | FEB  | MAR   | APR   | MAY    | JUN      | JUL   | AUG   | SEP   |
|-------|-------|------|------|------|------|-------|-------|--------|----------|-------|-------|-------|
| 1     | 693   | 201  | 143  | 40   | 58   | 50    | 422   | 35     | .95      | 1220  | 807   | 1490  |
| 2     | 690   | 186  | 138  | 39   | 57   | 43    | 417   | 28     | 1.7      | 1250  | 813   | 1410  |
| 3     | 737   | 174  | 129  | 38   | 54   | 37    | 385   | 22     | 3.0      | 1240  | 819   | 1360  |
| 4     | 809   | 203  | 121  | 36   | 52   | 32    | 350   | 17     | 3.1      | 1280  | 819   | 1310  |
| 5     | e1100 | 191  | 117  | 34   | 50   | 31    | 318   | 14     | 2.3      | 1310  | 818   | 1300  |
| 6     | e1300 | 178  | 109  | 32   | 48   | 28    | 289   | 11     | 1.5      | 1360  | 809   | 1250  |
| 7     | e1300 | 166  | 102  | 35   | 47   | 25    | 263   | 8.4    | 4.3      | 1370  | 797   | 1240  |
| 8     | e1200 | 155  | 95   | 54   | 45   | 23    | 239   | 5.9    | 17       | 1320  | 813   | 1190  |
| 9     | e1100 | 144  | 89   | 80   | 46   | 20    | 217   | 4.0    | 18       | 1290  | 796   | 1220  |
| 10    | e1000 | 136  | 83   | 143  | 51   | 22    | 193   | 2.6    | 15       | 1280  | 780   | 1250  |
| 11    | e 800 | 127  | 78   | 191  | 48   | 28    | 164   | 1.7    | 12       | 1300  | 826   | 1260  |
| 12    | e 700 | 119  | 72   | 195  | 46   | 40    | 136   | 1.1    | 16       | 1260  | 842   | 1250  |
| 13    | e 700 | 111  | 68   | 194  | 42   | 39    | 418   | 1.0    | 55       | 1240  | 887   | 1230  |
| 14    | e 800 | 107  | 66   | 187  | 38   | 44    | 465   | 6.7    | 69       | 1210  | 881   | 1190  |
| 15    | 802   | 105  | 60   | 181  | 36   | 44    | 420   | 7.2    | 108      | 1170  | 891   | 1160  |
| 16    | 754   | 101  | 57   | 171  | 32   | 49    | 385   | 5.9    | 135      | 1130  | 1010  | 1120  |
| 17    | 697   | 97   | 54   | 163  | 30   | 52    | 353   | 4.5    | 179      | 1090  | 1240  | 1070  |
| 18    | 639   | 92   | 51   | 154  | 61   | 57    | 314   | 3.1    | 205      | 1030  | 1840  | 1020  |
| 19    | 590   | 104  | 48   | 149  | 73   | 54    | 277   | 2.1    | 234      | 967   | 2370  | 967   |
| 20    | 566   | 177  | 45   | 139  | 67   | 51    | 244   | 1.5    | 323      | 923   | 2240  | 922   |
| 21    | 519   | 192  | 42   | 129  | 63   | 234   | 219   | 1.1    | 519      | 878   | 2160  | 905   |
| 22    | 474   | 195  | 40   | 119  | 59   | 312   | 198   | .91    | 841      | 826   | 2110  | 894   |
| 23    | 431   | 195  | 39   | 110  | 54   | 305   | 165   | .86    | 1070     | 801   | 2110  | 873   |
| 24    | 398   | 194  | 40   | 102  | 50   | 312   | 140   | 9.5    | 1120     | 792   | 2000  | 912   |
| 25    | 365   | 189  | 48   | 95   | 45   | 327   | 120   | 14     | 1190     | 802   | 1900  | 880   |
| 26    | 330   | 183  | 45   | 89   | 39   | 417   | 102   | 11     | 1280     | 823   | 1840  | 839   |
| 27    | 310   | 178  | 42   | 84   | 34   | 505   | 86    | 7.2    | 1250     | 794   | 1820  | 789   |
| 28    | 289   | 169  | 43   | 76   | 32   | 513   | 71    | 4.6    | 1210     | 771   | 1730  | 739   |
| 29    | 261   | 161  | 45   | 69   | ---  | 501   | 56    | 2.9    | 1230     | 817   | 1690  | 697   |
| 30    | 235   | 153  | 43   | 62   | ---  | 478   | 44    | 1.9    | 1260     | 836   | 1620  | 661   |
| 31    | 215   | ---  | 41   | 61   | ---  | 453   | ---   | 1.2    | ---      | 812   | 1560  | ---   |
| TOTAL | 20804 | 4683 | 2193 | 3251 | 1357 | 5126  | 7470  | 237.87 | 12372.85 | 33192 | 41638 | 32398 |
| MEAN  | 671   | 156  | 70.7 | 105  | 48.5 | 165   | 249   | 7.67   | 412      | 1071  | 1343  | 1080  |
| MAX   | 1300  | 203  | 143  | 195  | 73   | 513   | 465   | 35     | 1280     | 1370  | 2370  | 1490  |
| MIN   | 215   | 92   | 39   | 32   | 30   | 20    | 44    | .86    | .95      | 771   | 780   | 661   |
| AC-FT | 41260 | 9290 | 4350 | 6450 | 2690 | 10170 | 14820 | 472    | 24540    | 65840 | 82590 | 64260 |

CAL YR 1985 TOTAL 116165.29 MEAN 318 MAX 2360 MIN .00 AC-FT 230400  
WTR YR 1986 TOTAL 164722.72 MEAN 451 MAX 2370 MIN .86 AC-FT 326700

e Estimated



## BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

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02288900 TAMIAMI CANAL OUTLETS, 40-MILE BEND TO MONROE, FL  
(National stream-quality accounting network station)GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 7.92 | 7.89 | 7.89 | 7.56 | 7.69 | 7.48 | 7.78 | 6.42 | 5.26 | 8.34 | 8.09 | 8.35 |
| 2    | 7.93 | 7.87 | 7.88 | 7.55 | 7.67 | 7.43 | 7.77 | 6.33 | 5.40 | 8.34 | 8.09 | 8.32 |
| 3    | 7.96 | 7.85 | 7.86 | 7.54 | 7.65 | 7.38 | 7.74 | 6.23 | 5.54 | 8.33 | 8.09 | 8.30 |
| 4    | 8.01 | 7.92 | 7.84 | 7.52 | 7.63 | 7.34 | 7.70 | 6.15 | 5.55 | 8.34 | 8.09 | 8.28 |
| 5    | ---  | 7.91 | 7.83 | 7.51 | 7.62 | 7.32 | 7.65 | 6.08 | 5.48 | 8.35 | 8.09 | 8.33 |
| 6    | ---  | 7.89 | 7.82 | 7.49 | 7.60 | 7.27 | 7.61 | 6.00 | 5.38 | 8.36 | 8.08 | 8.31 |
| 7    | ---  | 7.87 | 7.80 | 7.51 | 7.58 | 7.23 | 7.57 | 5.90 | 5.51 | 8.36 | 8.08 | 8.32 |
| 8    | ---  | 7.85 | 7.78 | 7.62 | 7.56 | 7.19 | 7.53 | 5.79 | 6.71 | 8.33 | 8.09 | 8.35 |
| 9    | ---  | 7.84 | 7.77 | 7.71 | 7.56 | 7.15 | 7.49 | 5.68 | 6.76 | 8.32 | 8.08 | 8.40 |
| 10   | ---  | 7.82 | 7.75 | 7.89 | 7.60 | 7.18 | 7.44 | 5.57 | 6.68 | 8.31 | 8.07 | 8.44 |
| 11   | ---  | 7.81 | 7.73 | 7.98 | 7.57 | 7.26 | 7.38 | 5.48 | 6.63 | 8.31 | 8.10 | 8.44 |
| 12   | ---  | 7.79 | 7.71 | 7.98 | 7.55 | 7.38 | 7.31 | 5.38 | 6.69 | 8.29 | 8.13 | 8.44 |
| 13   | ---  | 7.78 | 7.70 | 7.98 | 7.52 | 7.36 | 7.53 | 5.33 | 7.15 | 8.27 | 8.17 | 8.43 |
| 14   | ---  | 7.76 | 7.69 | 7.96 | 7.48 | 7.37 | 7.57 | 6.03 | 7.22 | 8.26 | 8.17 | 8.41 |
| 15   | 8.09 | 7.76 | 7.67 | 7.95 | 7.46 | 7.33 | 7.52 | 6.13 | 7.38 | 8.23 | 8.17 | 8.40 |
| 16   | 8.08 | 7.74 | 7.65 | 7.94 | 7.43 | 7.33 | 7.48 | 6.08 | 7.47 | 8.21 | 8.22 | 8.38 |
| 17   | 8.07 | 7.73 | 7.64 | 7.93 | 7.41 | 7.31 | 7.44 | 5.99 | 7.58 | 8.18 | 8.31 | 8.37 |
| 18   | 8.05 | 7.71 | 7.63 | 7.92 | 7.56 | 7.30 | 7.37 | 5.90 | 7.63 | 8.16 | 8.48 | 8.35 |
| 19   | 8.04 | 7.75 | 7.61 | 7.92 | 7.62 | 7.25 | 7.31 | 5.80 | 7.68 | 8.13 | 8.61 | 8.34 |
| 20   | 8.05 | 7.93 | 7.59 | 7.90 | 7.59 | 7.19 | 7.24 | 5.72 | 7.81 | 8.11 | 8.58 | 8.32 |
| 21   | 8.04 | 7.97 | 7.57 | 7.88 | 7.56 | 7.53 | 7.19 | 5.64 | 7.98 | 8.09 | 8.56 | 8.32 |
| 22   | 8.02 | 7.98 | 7.55 | 7.87 | 7.54 | 7.65 | 7.13 | 5.55 | 8.14 | 8.06 | 8.54 | 8.33 |
| 23   | 8.01 | 7.98 | 7.54 | 7.85 | 7.51 | 7.64 | 7.05 | 5.49 | 8.27 | 8.05 | 8.54 | 8.33 |
| 24   | 8.00 | 7.98 | 7.56 | 7.83 | 7.49 | 7.64 | 6.98 | 5.92 | 8.29 | 8.05 | 8.51 | 8.36 |
| 25   | 7.99 | 7.97 | 7.62 | 7.81 | 7.45 | 7.66 | 6.91 | 6.01 | 8.32 | 8.06 | 8.48 | 8.35 |
| 26   | 7.97 | 7.96 | 7.60 | 7.80 | 7.41 | 7.77 | 6.83 | 5.90 | 8.36 | 8.07 | 8.47 | 8.34 |
| 27   | 7.97 | 7.95 | 7.58 | 7.80 | 7.37 | 7.86 | 6.76 | 5.78 | 8.35 | 8.06 | 8.46 | 8.32 |
| 28   | 7.97 | 7.93 | 7.58 | 7.77 | 7.35 | 7.87 | 6.68 | 5.66 | 8.33 | 8.05 | 8.43 | 8.30 |
| 29   | 7.95 | 7.92 | 7.60 | 7.75 | ---  | 7.86 | 6.59 | 5.53 | 8.34 | 8.08 | 8.42 | 8.28 |
| 30   | 7.93 | 7.90 | 7.58 | 7.73 | ---  | 7.83 | 6.50 | 5.42 | 8.35 | 8.09 | 8.40 | 8.26 |
| 31   | 7.91 | ---  | 7.57 | 7.71 | ---  | 7.81 | ---  | 5.32 | ---  | 8.09 | 8.37 | ---  |
| MEAN | ---  | 7.87 | 7.68 | 7.78 | 7.54 | 7.46 | 7.30 | 5.81 | 7.14 | 8.20 | 8.29 | 8.35 |
| MAX  | ---  | 7.98 | 7.89 | 7.98 | 7.69 | 7.87 | 7.78 | 6.42 | 8.36 | 8.36 | 8.61 | 8.44 |
| MIN  | ---  | 7.71 | 7.54 | 7.49 | 7.35 | 7.15 | 6.50 | 5.32 | 5.26 | 8.05 | 8.07 | 8.26 |

## BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02288900 TAMIAMI CANAL OUTLETS, 40-MILE BEND TO MONROE, FL--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1968 to current year.

REMARKS.--Samples collected periodically for QW investigation beginning in 1969. Samples collected also as part of joint USGS-SFWMD network since 1975. Station became part of National Quality Accounting Network in 1978 and was also sampled monthly as part of QW network in cooperation with National Park Service.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE  | TIME   | TEMPER-<br>ATURE<br>(DEG C)<br>(00010)                                   | BARO-<br>METRIC<br>PRES-<br>SURE<br>(MM<br>HG)<br>(00025)                    | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027)       | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028)                 | TUR-<br>BID-<br>IDY<br>(NTU)<br>(00076)                         | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080)                  | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095)             | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300)                  | PH<br>(STAND-<br>ARD<br>UNITS)<br>(00400)                                              | PH<br>LAB<br>ARD<br>(STAND-<br>ARD<br>UNITS)<br>(00403)       | ALKA-<br>LINITY<br>WH WAT<br>TOTAL<br>FIELD<br>MG/L AS<br>CACO3<br>(00410) |
|-------|--------|--------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------|
| OCT   |        |                                                                          |                                                                              |                                                                          |                                                                                   |                                                                 |                                                                          |                                                                          |                                                                 |                                                                                        |                                                               |                                                                            |
| 03... | 0940   | 27.0                                                                     | 765                                                                          | 1028                                                                     | 80010                                                                             | 0.80                                                            | --                                                                       | 220                                                                      | 1.2                                                             | 7.95                                                                                   | 7.50                                                          | 160                                                                        |
| 29... | 1003   | --                                                                       | --                                                                           | 1028                                                                     | 1028                                                                              | 0.50                                                            | 40                                                                       | --                                                                       | --                                                              | --                                                                                     | 7.90                                                          | --                                                                         |
| JAN   |        |                                                                          |                                                                              |                                                                          |                                                                                   |                                                                 |                                                                          |                                                                          |                                                                 |                                                                                        |                                                               |                                                                            |
| 08... | 0925   | 20.5                                                                     | 766                                                                          | 1028                                                                     | 80020                                                                             | 1.1                                                             | --                                                                       | 475                                                                      | 4.2                                                             | 8.70                                                                                   | 7.80                                                          | 229                                                                        |
| DATE  |        | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610)              | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | NITRO-<br>GEN,<br>AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00666) | PHOS-<br>PHORUS,<br>ORTHOPHOS-<br>PHATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680)      | CARBON,<br>INOR-<br>GANIC,<br>TOTAL<br>(MG/L<br>AS C)<br>(00685)           |
| OCT   |        |                                                                          |                                                                              |                                                                          |                                                                                   |                                                                 |                                                                          |                                                                          |                                                                 |                                                                                        |                                                               |                                                                            |
| 03... | <0.010 | 0.230                                                                    | 0.010                                                                        | --                                                                       | 1.1                                                                               | --                                                              | <0.100                                                                   | 0.030                                                                    | 0.020                                                           | <0.010                                                                                 | --                                                            | --                                                                         |
| 29... | --     | 0.070                                                                    | --                                                                           | 0.010                                                                    | 1.1                                                                               | 0.020                                                           | --                                                                       | 0.020                                                                    | --                                                              | --                                                                                     | 20                                                            | 41                                                                         |
| JAN   |        |                                                                          |                                                                              |                                                                          |                                                                                   |                                                                 |                                                                          |                                                                          |                                                                 |                                                                                        |                                                               |                                                                            |
| 08... | 0.120  | 0.140                                                                    | 0.020                                                                        | --                                                                       | 0.80                                                                              | --                                                              | 0.290                                                                    | 0.020                                                                    | 0.010                                                           | 0.020                                                                                  | --                                                            | --                                                                         |
| DATE  |        | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3)<br>(00900)                        | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT FLD<br>MG/L AS<br>CACO3<br>(00902) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA)<br>(00915)                  | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG)<br>(00925)                   | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930)         | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO<br>PERCENT<br>SODIUM<br>(00931)  | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935)           | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940)  | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945)                               | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F)<br>(00950) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SIO2)<br>(00955)               |
| OCT   |        |                                                                          |                                                                              |                                                                          |                                                                                   |                                                                 |                                                                          |                                                                          |                                                                 |                                                                                        |                                                               |                                                                            |
| 03... | 150    | 0                                                                        | 55                                                                           | 2.4                                                                      | 10                                                                                | 0.4                                                             | 13                                                                       | 0.60                                                                     | 18                                                              | <0.2                                                                                   | 0.10                                                          | 4.4                                                                        |
| 29... | 170    | 14                                                                       | 64                                                                           | 2.7                                                                      | 13                                                                                | 0.5                                                             | 14                                                                       | 0.80                                                                     | 17                                                              | 0.2                                                                                    | 0.10                                                          | 1.3                                                                        |
| JAN   |        |                                                                          |                                                                              |                                                                          |                                                                                   |                                                                 |                                                                          |                                                                          |                                                                 |                                                                                        |                                                               |                                                                            |
| 08... | 230    | 1                                                                        | 86                                                                           | 3.9                                                                      | 15                                                                                | 0.5                                                             | 12                                                                       | 1.2                                                                      | 22                                                              | 5.9                                                                                    | 0.20                                                          | 2.6                                                                        |

## BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

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02288900 TAMiami CANAL OUTLETS, 40-MILE BEND TO MONROE, FL--Continued

## WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | ARSENIC<br>DIS-<br>SOLVED<br>(UG/L<br>AS AS)<br>(01000) | BARIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BA)<br>(01005) | BERYL-<br>LIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS BE)<br>(01010) | CADMIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS CD)<br>(01025) | CHRO-<br>MIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CR)<br>(01030) | COBALT,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CO)<br>(01035) | COPPER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS CU)<br>(01040) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE)<br>(01046) | LEAD,<br>DIS-<br>SOLVED<br>(UG/L<br>AS PB)<br>(01049) | MANGA-<br>NESE,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MN)<br>(01056) | MOLYB-<br>DENUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS MO)<br>(01060) | NICKEL,<br>DIS-<br>SOLVED<br>(UG/L<br>AS NI)<br>(01065) |
|--------------|---------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------|
| OCT<br>03... | 1                                                       | 31                                                      | <0.5                                                            | <1                                                      | <1                                                             | <3                                                      | 3                                                       | <37                                                   | 12                                                    | 7                                                               | <10                                                              | 3                                                       |
| 29...        | --                                                      | --                                                      | --                                                              | --                                                      | --                                                             | --                                                      | --                                                      | --                                                    | --                                                    | --                                                              | --                                                               | --                                                      |
| JAN<br>08... | 1                                                       | 27                                                      | 0.5                                                             | 1                                                       | <1                                                             | <3                                                      | 2                                                       | 47                                                    | 2                                                     | 9                                                               | <10                                                              | 2                                                       |

| DATE         | SILVER,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AG)<br>(01075) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR)<br>(01080) | VANA-<br>DIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS V)<br>(01085) | ZINC,<br>DIS-<br>SOLVED<br>(UG/L<br>AS ZN)<br>(01090) | ALUM-<br>INUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS AL)<br>(01106) | LITHIUM<br>DIS-<br>SOLVED<br>(UG/L<br>AS LI)<br>(01130) | SELE-<br>NIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SE)<br>(01145) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML)<br>(31625) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML)<br>(31673) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L)<br>(70301) |
|--------------|---------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| OCT<br>03... | --                                                      | 200                                                             | <6                                                            | <12                                                   | 20                                                             | <4                                                      | <1                                                             | --                                                                        | --                                                                            | 216                                                                           | --                                                                             |
| 29...        | --                                                      | 320                                                             | --                                                            | --                                                    | --                                                             | --                                                      | --                                                             | --                                                                        | --                                                                            | 228                                                                           | 190                                                                            |
| JAN<br>08... | <1                                                      | 490                                                             | <6                                                            | 18                                                    | <10                                                            | <4                                                      | <1                                                             | 240                                                                       | 80                                                                            | 282                                                                           | 280                                                                            |

| DATE         | SED.<br>SUSP.<br>SIEVE<br>DIAM.<br>% FINER<br>THAN<br>.062 MM<br>(70331) | PHOS-<br>PHORUS,<br>ORTHO,<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) | PHOS-<br>PHORUS<br>TOTAL<br>(MG/L<br>AS PO4)<br>(71886) | MERCURY<br>DIS-<br>SOLVED<br>(UG/L<br>AS HG)<br>(71890) | SEDI-<br>MENT,<br>SUS-<br>PENDE<br>(MG/L)<br>(80154) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM)<br>(90095) | ALKA-<br>LITY<br>LAB<br>(MG/L<br>AS<br>CAC03)<br>(90410) | HARD-<br>NESS<br>NONCAR-<br>BONATE<br>LAB<br>(MG/L<br>AS<br>CAC03)<br>(95902) | ALKA-<br>LITY,<br>CARBON-<br>ATE<br>IT-FLD<br>(MG/L -<br>AS<br>CAC03)<br>(99430) | BICAR-<br>BONATE<br>IT-FLD<br>(MG/L<br>AS<br>HCO3)<br>(99440) | CAR-<br>BONATE<br>IT-FLD<br>(MG/L<br>AS<br>CO3)<br>(99445) |
|--------------|--------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------|
| OCT<br>03... | 20                                                                       | --                                                               | 0.09                                                    | 0.2                                                     | 5                                                    | 333                                                                 | 145                                                      | 0                                                                             | 164                                                                              | 200                                                           | 0                                                          |
| 29...        | --                                                                       | 0.010                                                            | --                                                      | --                                                      | --                                                   | 368                                                                 | 157                                                      | 14                                                                            | --                                                                               | --                                                            | --                                                         |
| JAN<br>08... | 33                                                                       | --                                                               | 0.06                                                    | <0.1                                                    | 6                                                    | 492                                                                 | 221                                                      | 1                                                                             | 230                                                                              | 280                                                           | 0                                                          |

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

254754080344300 SHARK RIVER SLOUGH NO. 1 IN CONSERVATION AREA 3B NEAR COOPERTOWN, FL

LOCATION.--Lat 25°47'54", long 80°33'43", in SW¼ sec.30, T.53 S., R.38 E., Dade County, Hydrologic Unit 03090202, 2.8 mi northwest of Coopertown on east-west ditch in Conservation Area 3B.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1976 to September 1980, October 1982 to current year. Prior to October 1977, published as "Shark Valley Slough No. 1 in conservation area 3B near Coopertown."

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.38 ft Sept. 29, 1978; minimum, 4.62 ft June 22, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 8.27 ft Aug. 16, 17; minimum, 6.95 ft May 31, June 1 (estimated).

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT   | NOV   | DEC  | JAN  | FEB  | MAR  | APR  | MAY   | JUN   | JUL  | AUG  | SEP  |
|------|-------|-------|------|------|------|------|------|-------|-------|------|------|------|
| 1    | 7.64  | e7.60 | 7.62 | 7.34 | 7.26 | 7.09 | 7.40 | 7.23  | e6.95 | 7.46 | 7.77 | 8.00 |
| 2    | 7.64  | e7.60 | 7.61 | 7.33 | 7.25 | 7.07 | 7.40 | 7.21  | e6.98 | 7.49 | 7.79 | 7.99 |
| 3    | 7.64  | e7.63 | 7.59 | 7.32 | 7.24 | 7.06 | 7.40 | 7.19  | e7.02 | 7.46 | 7.84 | 7.98 |
| 4    | e7.73 | e7.64 | 7.59 | 7.31 | 7.23 | 7.05 | 7.39 | 7.17  | e7.01 | 7.50 | 7.85 | 7.96 |
| 5    | e7.88 | e7.64 | 7.59 | 7.31 | 7.22 | 7.04 | 7.39 | 7.16  | e6.98 | 7.61 | 7.88 | 8.01 |
| 6    | e7.89 | e7.63 | 7.59 | 7.30 | 7.21 | 7.03 | 7.38 | 7.15  | e6.96 | 7.68 | 7.86 | 8.01 |
| 7    | e7.85 | e7.62 | 7.58 | 7.31 | 7.21 | 7.02 | 7.38 | 7.13  | e6.96 | 7.68 | 7.84 | 8.01 |
| 8    | e7.80 | e7.62 | 7.56 | 7.34 | 7.21 | 7.01 | 7.38 | 7.11  | e7.02 | 7.69 | 7.82 | 8.01 |
| 9    | e7.75 | e7.61 | 7.55 | 7.39 | 7.20 | 7.00 | 7.37 | 7.09  | e7.08 | 7.69 | 7.81 | 8.01 |
| 10   | e7.70 | e7.60 | 7.55 | 7.44 | 7.19 | 7.08 | 7.36 | 7.10  | e7.10 | 7.69 | 7.80 | 8.01 |
| 11   | e7.64 | e7.60 | 7.53 | 7.46 | 7.19 | 7.26 | 7.36 | 7.10  | e7.14 | 7.69 | 7.84 | 8.01 |
| 12   | e7.66 | e7.65 | 7.52 | 7.46 | 7.18 | 7.25 | 7.35 | 7.08  | e7.11 | 7.69 | 7.86 | 8.01 |
| 13   | e7.66 | e7.70 | 7.51 | 7.45 | 7.17 | 7.24 | 7.39 | 7.07  | 7.13  | 7.68 | 7.90 | 8.01 |
| 14   | e7.62 | 7.75  | 7.49 | 7.43 | 7.15 | 7.25 | 7.41 | 7.07  | 7.15  | 7.69 | 7.98 | 8.00 |
| 15   | e7.63 | 7.75  | 7.48 | 7.42 | 7.15 | 7.24 | 7.41 | 7.06  | 7.16  | 7.68 | 7.98 | 7.96 |
| 16   | e7.62 | 7.75  | 7.48 | 7.41 | 7.13 | 7.25 | 7.40 | 7.05  | 7.18  | 7.68 | 8.09 | 7.93 |
| 17   | e7.61 | 7.75  | 7.48 | 7.40 | 7.13 | 7.25 | 7.40 | 7.04  | 7.20  | 7.66 | 8.21 | 7.90 |
| 18   | e7.60 | 7.73  | 7.47 | 7.39 | 7.18 | 7.24 | 7.39 | e7.04 | 7.18  | 7.65 | 8.19 | 7.88 |
| 19   | e7.60 | 7.72  | 7.45 | 7.39 | 7.20 | 7.23 | 7.38 | e7.03 | 7.19  | 7.65 | 8.18 | 7.86 |
| 20   | e7.65 | 7.72  | 7.42 | 7.38 | 7.20 | 7.21 | 7.37 | e7.03 | 7.27  | 7.66 | 8.15 | 7.87 |
| 21   | e7.64 | 7.72  | 7.40 | 7.36 | 7.19 | 7.25 | 7.37 | e7.02 | 7.29  | 7.67 | 8.13 | 7.91 |
| 22   | e7.63 | 7.72  | 7.39 | 7.35 | 7.18 | 7.27 | 7.36 | e7.01 | 7.28  | 7.68 | 8.12 | 7.90 |
| 23   | e7.62 | 7.72  | 7.38 | 7.34 | 7.17 | 7.25 | 7.34 | e7.00 | 7.28  | 7.72 | 8.10 | 7.88 |
| 24   | e7.61 | 7.72  | 7.38 | 7.34 | 7.15 | 7.23 | 7.33 | e7.00 | 7.26  | 7.72 | 8.07 | 7.89 |
| 25   | e7.60 | 7.70  | 7.38 | 7.33 | 7.14 | 7.22 | 7.32 | e6.99 | 7.28  | 7.71 | 8.07 | 7.88 |
| 26   | e7.59 | 7.69  | 7.37 | 7.32 | 7.12 | 7.25 | 7.30 | e6.98 | 7.28  | 7.74 | 8.07 | 7.87 |
| 27   | e7.58 | 7.67  | 7.35 | 7.31 | 7.11 | 7.31 | 7.29 | e6.97 | 7.26  | 7.80 | 8.04 | 7.85 |
| 28   | e7.66 | 7.65  | 7.35 | 7.29 | 7.09 | 7.35 | 7.28 | e6.97 | 7.28  | 7.81 | 8.03 | 7.83 |
| 29   | e7.67 | 7.63  | 7.36 | 7.28 | ---  | 7.35 | 7.26 | e6.96 | 7.32  | 7.81 | 8.02 | 7.81 |
| 30   | e7.64 | 7.63  | 7.35 | 7.27 | ---  | 7.37 | 7.25 | e6.96 | 7.38  | 7.80 | 8.00 | 7.80 |
| 31   | e7.61 | ---   | 7.34 | 7.26 | ---  | 7.40 | ---  | e6.95 | ---   | 7.78 | 8.00 | ---  |
| MEAN | 7.67  | 7.67  | 7.47 | 7.36 | 7.18 | 7.20 | 7.36 | 7.06  | 7.16  | 7.67 | 7.98 | 7.93 |
| MAX  | 7.89  | 7.75  | 7.62 | 7.46 | 7.26 | 7.40 | 7.41 | 7.23  | 7.38  | 7.81 | 8.21 | 8.01 |
| MIN  | 7.58  | 7.60  | 7.34 | 7.26 | 7.09 | 7.00 | 7.25 | 6.95  | 6.95  | 7.46 | 7.77 | 7.80 |

CAL YR 1985 MEAN 6.54 MAX 7.89 MIN 4.65

WTR YR 1986 MEAN 7.48 MAX 8.21 MIN 6.95

e Estimated

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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254543080491100 TAMIAMI CANAL ABOVE S-12-A, NEAR MIAMI, FL

LOCATION.--Lat 25°45'43", long 80°49'11", in N sec.15, T.54 S., R.35 E., Dade County, Hydrologic Unit 03090202, on north bank of Levee 29 borrow ditch, 200 ft northeast of structure 12A, 38 mi west of Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1980 to current year (gage heights only). Records prior to October 1980 are fragmentary or missing from the files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Station is one of several located above the gated control structures in Levee 29 at Tamiami Canal. Gage record is primarily used to determine discharge through structure 12-A.

COOPERATION.--Gate-opening record provided by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 10.28 ft Feb. 16, 1983; minimum, 5.60 ft June 9, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 10.07 ft Oct. 27, 28, Nov. 19; minimum, 8.67 ft June 6.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT   | NOV   | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN   | JUL   | AUG  | SEP  |
|------|-------|-------|------|------|------|------|------|------|-------|-------|------|------|
| 1    | 9.78  | 9.96  | 9.89 | 9.65 | 9.66 | 9.45 | 9.66 | 9.17 | 8.70  | e9.33 | 9.31 | 9.56 |
| 2    | 9.78  | 9.98  | 9.89 | 9.65 | 9.65 | 9.47 | 9.63 | 9.14 | 8.72  | 9.30  | 9.32 | 9.55 |
| 3    | 9.79  | 9.97  | 9.90 | 9.65 | 9.64 | 9.46 | 9.60 | 9.11 | 8.74  | 9.27  | 9.32 | 9.55 |
| 4    | 9.83  | 10.00 | 9.88 | 9.64 | 9.62 | 9.44 | 9.57 | 9.10 | 8.73  | 9.26  | 9.32 | 9.57 |
| 5    | 9.86  | 9.99  | 9.88 | 9.62 | 9.60 | 9.43 | 9.55 | 9.09 | 8.71  | 9.27  | 9.32 | 9.59 |
| 6    | 9.88  | 9.99  | 9.90 | 9.64 | 9.57 | 9.42 | 9.53 | 9.07 | 8.70  | 9.30  | 9.32 | 9.60 |
| 7    | 9.92  | 9.99  | 9.90 | 9.61 | 9.57 | 9.40 | 9.50 | 9.05 | 8.75  | 9.32  | 9.31 | 9.63 |
| 8    | 9.95  | 9.98  | 9.87 | 9.64 | 9.56 | 9.39 | 9.47 | 9.03 | 8.78  | 9.28  | 9.30 | 9.65 |
| 9    | 9.94  | 9.98  | 9.85 | 9.70 | 9.56 | 9.38 | 9.42 | 8.99 | 8.79  | 9.24  | 9.29 | 9.67 |
| 10   | 9.89  | 9.97  | 9.85 | 9.75 | 9.55 | 9.39 | 9.40 | 9.00 | e8.80 | 9.23  | 9.27 | 9.70 |
| 11   | 9.86  | 9.96  | 9.83 | 9.76 | 9.52 | 9.51 | 9.39 | 8.98 | e8.79 | 9.26  | 9.29 | 9.69 |
| 12   | 9.85  | 9.96  | 9.81 | 9.78 | 9.53 | 9.53 | 9.36 | 8.95 | e8.82 | 9.24  | 9.33 | 9.68 |
| 13   | 9.84  | 9.96  | 9.80 | 9.78 | 9.55 | 9.53 | 9.39 | 8.93 | e8.89 | 9.23  | 9.35 | 9.67 |
| 14   | 9.83  | 9.95  | 9.79 | 9.76 | 9.54 | 9.53 | 9.39 | 8.93 | e8.91 | 9.23  | 9.38 | 9.66 |
| 15   | 9.81  | 9.95  | 9.81 | 9.76 | 9.51 | 9.53 | 9.38 | 8.92 | e8.93 | 9.23  | 9.38 | 9.66 |
| 16   | 9.79  | 9.93  | 9.80 | 9.76 | 9.50 | 9.57 | 9.35 | 8.91 | e8.98 | 9.22  | 9.39 | 9.68 |
| 17   | 9.78  | 9.92  | 9.79 | 9.75 | 9.49 | 9.59 | 9.33 | 8.88 | e9.05 | 9.21  | 9.41 | 9.70 |
| 18   | 9.83  | 9.93  | 9.79 | 9.75 | 9.53 | 9.62 | 9.33 | 8.85 | 9.06  | 9.21  | 9.45 | 9.71 |
| 19   | 9.85  | 10.00 | 9.79 | 9.72 | 9.55 | 9.60 | 9.35 | 8.82 | 9.10  | 9.25  | 9.44 | 9.70 |
| 20   | 9.88  | 10.01 | 9.78 | 9.73 | 9.54 | 9.57 | 9.35 | 8.79 | 9.25  | 9.22  | 9.46 | 9.71 |
| 21   | 9.89  | 9.94  | 9.76 | 9.73 | 9.54 | 9.63 | 9.31 | 8.78 | 9.27  | 9.21  | 9.58 | 9.75 |
| 22   | 9.90  | 9.92  | 9.75 | 9.73 | 9.55 | 9.68 | 9.30 | 8.83 | 9.29  | 9.27  | 9.60 | 9.78 |
| 23   | 9.92  | 9.95  | 9.72 | 9.72 | 9.52 | 9.70 | 9.30 | 8.88 | 9.29  | 9.26  | 9.61 | 9.79 |
| 24   | 9.93  | 9.97  | 9.71 | 9.72 | 9.52 | 9.70 | 9.29 | 8.86 | 9.26  | 9.25  | 9.61 | 9.81 |
| 25   | 9.94  | 9.97  | 9.70 | 9.72 | 9.50 | 9.68 | 9.28 | 8.85 | 9.25  | 9.24  | 9.61 | 9.83 |
| 26   | 9.94  | 9.96  | 9.72 | 9.69 | 9.51 | 9.69 | 9.26 | 8.83 | 9.26  | 9.25  | 9.62 | 9.83 |
| 27   | 10.01 | 9.95  | 9.70 | 9.68 | 9.47 | 9.69 | 9.24 | 8.82 | e9.27 | 9.30  | 9.61 | 9.83 |
| 28   | 10.05 | 9.93  | 9.69 | 9.69 | 9.43 | 9.70 | 9.22 | 8.80 | e9.29 | 9.31  | 9.61 | 9.83 |
| 29   | 10.05 | 9.91  | 9.68 | 9.67 | ---  | 9.70 | 9.20 | 8.77 | e9.34 | 9.31  | 9.61 | 9.82 |
| 30   | 10.03 | 9.90  | 9.68 | 9.66 | ---  | 9.69 | 9.18 | 8.74 | e9.39 | 9.31  | 9.59 | 9.82 |
| 31   | 9.99  | ---   | 9.67 | 9.66 | ---  | 9.68 | ---  | 8.72 | ---   | 9.29  | 9.58 | ---  |
| MEAN | 9.89  | 9.96  | 9.79 | 9.70 | 9.55 | 9.56 | 9.38 | 8.92 | 9.00  | 9.26  | 9.44 | 9.70 |
| MAX  | 10.05 | 10.01 | 9.90 | 9.78 | 9.66 | 9.70 | 9.66 | 9.17 | 9.39  | 9.33  | 9.62 | 9.83 |
| MIN  | 9.78  | 9.90  | 9.67 | 9.61 | 9.43 | 9.38 | 9.18 | 8.72 | 8.70  | 9.21  | 9.27 | 9.55 |

CAL YR 1985 MEAN 8.42 MAX 10.05 MIN 5.63  
WTR YR 1986 MEAN 9.51 MAX 10.05 MIN 8.70

e Estimated



## EVERGLADES AND SOUTHEASTERN COASTAL AREA

254543080491101 TAMiami CANAL BELOW S-12-A, NEAR MIAMI, FL

LOCATION.--Lat 25°45'43", long 80°49'11", in N sec.15, T.54 S., R.35 E., Dade County, Hydrologic Unit 03090202, on north bank of Levee 29 borrow canal, 200 ft northeast of control structure 12-A, and 38 mi west of Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1963 to September 1965, October 1970 to September 1971, October 1975 to September 1976, October 1977 to September 1980 (discharge only), October 1980 to current year. Stage and discharge records for the missing periods above were either fragmentary or unavailable from the files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except those for estimated daily discharges, which are fair. Station is one of several located downstream from the control structures in Levee 29 at Tamiami Canal. Gage record is primarily used to determine discharge through control structure 12-A. Discharge is the total discharge through the S-12-A structure, from Conservation Area 3A. The daily discharge computed from relation between discharge, head, and gate-openings when flow is controlled by gates and computed by relation between stage and discharge under uncontrolled conditions.

COOPERATION.--Gate-opening records for S-12-A provided by U.S. Army Corps of Engineers.

AVERAGE DISCHARGE.--13 years (water years 1964-65, 1971, 1976, 1978-86), 92.5 ft<sup>3</sup>/s, 67,020 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 843 ft<sup>3</sup>/s July 21, 1982; maximum gage height, 10.23 ft July 20-22, 1982; no flow for some days most years; minimum gage height, 5.58 ft June 9, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 361 ft<sup>3</sup>/s July 8; maximum gage height, 9.41 ft Aug. 19; no flow for some days; minimum gage height, 7.99 ft May 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT   | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN    | JUL   | AUG   | SEP  |
|-------|-------|------|------|------|------|------|------|------|--------|-------|-------|------|
| 1     | 338   | 231  | 72   | 20   | 27   | 14   | 102  | 56   | 11     | e233  | 325   | 250  |
| 2     | 263   | 232  | 72   | 20   | 27   | 14   | 126  | 55   | 11     | 275   | 328   | 248  |
| 3     | 263   | 232  | 64   | 20   | 27   | 14   | 124  | 54   | 11     | 262   | 329   | 226  |
| 4     | 270   | 233  | 56   | 20   | 20   | 14   | 122  | 54   | 11     | 258   | 329   | 217  |
| 5     | 275   | 217  | 56   | 20   | 14   | 14   | 120  | 53   | 11     | 259   | 329   | 218  |
| 6     | 279   | 198  | 56   | 20   | 14   | 14   | 119  | 39   | 11     | 265   | 329   | 220  |
| 7     | 285   | 197  | 56   | 20   | 14   | 14   | 117  | 25   | 11     | 311   | 326   | 225  |
| 8     | 290   | 197  | 56   | 20   | 14   | 14   | 115  | 25   | 11     | 361   | 322   | 226  |
| 9     | 289   | 197  | 56   | 20   | 14   | 14   | 112  | 24   | 11     | 350   | 320   | 185  |
| 10    | 281   | 197  | 56   | 20   | 14   | 13   | 111  | 24   | e 6.2  | 345   | 313   | 146  |
| 11    | 277   | 196  | 56   | 20   | 14   | 14   | 110  | 24   | .00    | 345   | 320   | 146  |
| 12    | 274   | 181  | 55   | 21   | 14   | 14   | 109  | 23   | .00    | 334   | 265   | 146  |
| 13    | 273   | 161  | 55   | 21   | 14   | 14   | 109  | 17   | .00    | 322   | 238   | 146  |
| 14    | 272   | 161  | 55   | 21   | 14   | 14   | 110  | 12   | .00    | 315   | 245   | 145  |
| 15    | 298   | 161  | 55   | 20   | 14   | 14   | 80   | 12   | .00    | 305   | 246   | 145  |
| 16    | 329   | 160  | 55   | 20   | 14   | 14   | 61   | 12   | .00    | 294   | 247   | 147  |
| 17    | 329   | 159  | 42   | 20   | 14   | 14   | 61   | 12   | e 7.8  | 284   | 250   | 149  |
| 18    | 337   | 160  | 35   | 20   | 14   | 15   | 61   | 12   | 14     | 281   | 255   | 150  |
| 19    | 340   | 126  | 35   | 20   | 14   | 14   | 61   | 11   | 14     | 289   | 295   | 150  |
| 20    | 346   | 94   | 35   | 20   | 14   | 14   | 61   | 11   | 15     | 279   | 270   | 149  |
| 21    | 349   | 93   | 35   | 26   | 14   | 14   | 60   | 11   | 16     | 280   | 217   | 152  |
| 22    | 299   | 93   | 35   | 31   | 14   | 15   | 60   | 12   | 16     | 302   | 223   | 155  |
| 23    | 264   | 94   | 34   | 31   | 14   | 15   | 60   | 12   | 16     | 300   | 225   | 134  |
| 24    | 266   | 94   | 34   | 31   | 14   | 15   | 60   | 12   | 16     | 295   | 227   | 118  |
| 25    | 268   | 94   | 34   | 31   | 14   | 33   | 59   | 12   | 64     | 292   | 228   | 119  |
| 26    | 267   | 81   | 34   | 31   | 14   | 51   | 59   | 12   | 87     | 299   | 250   | 120  |
| 27    | 273   | 73   | 34   | 30   | 14   | 51   | 58   | 12   | e 86   | 316   | 260   | 120  |
| 28    | 279   | 73   | 34   | 30   | 14   | 51   | 58   | 12   | e 87   | 321   | 259   | 120  |
| 29    | 254   | 72   | 34   | 30   | ---  | 51   | 57   | 12   | e 89   | 322   | 259   | 119  |
| 30    | 238   | 72   | 34   | 30   | ---  | 50   | 57   | 11   | e132   | 322   | 254   | 119  |
| 31    | 234   | ---  | 24   | 30   | ---  | 50   | ---  | 11   | ---    | 320   | 253   | ---  |
| TOTAL | 8899  | 4529 | 1444 | 734  | 437  | 676  | 2579 | 684  | 765.00 | 9336  | 8536  | 4910 |
| MEAN  | 287   | 151  | 46.6 | 23.7 | 15.6 | 21.8 | 86.0 | 22.1 | 25.5   | 301   | 275   | 164  |
| MAX   | 349   | 233  | 72   | 31   | 27   | 51   | 126  | 56   | 132    | 361   | 329   | 250  |
| MIN   | 234   | 72   | 24   | 20   | 14   | 13   | 57   | 11   | .00    | 233   | 217   | 118  |
| AC-FT | 17650 | 8980 | 2860 | 1460 | 867  | 1340 | 5120 | 1360 | 1520   | 18520 | 16930 | 9740 |

CAL YR 1985 TOTAL 31292.11 MEAN 85.7 MAX 425 MIN .00 AC-FT 62070  
WTR YR 1986 TOTAL 43529.00 MEAN 119 MAX 361 MIN .00 AC-FT 86340

e Estimated

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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254543080491101 TAMIAMI CANAL BELOW S-12-A, NEAR MIAMI, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT       | NOV  | DEC      | JAN      | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------------|-----------|------|----------|----------|------|------|------|------|------|------|------|------|
| 1           | 9.26      | 9.02 | 8.54     | 8.19     | 8.31 | 8.10 | 8.53 | 8.43 | 8.01 | 8.91 | 9.31 | 9.10 |
| 2           | 9.13      | 9.03 | 8.54     | 8.18     | 8.32 | 8.10 | 8.61 | 8.43 | 8.06 | 9.03 | 9.32 | 9.10 |
| 3           | 9.13      | 9.03 | 8.52     | 8.17     | 8.32 | 8.10 | 8.61 | 8.42 | 8.06 | 9.03 | 9.32 | 9.06 |
| 4           | 9.15      | 9.03 | 8.48     | 8.16     | 8.28 | 8.09 | 8.61 | 8.42 | 8.03 | 9.03 | 9.32 | 9.03 |
| 5           | 9.14      | 9.01 | 8.48     | 8.16     | 8.19 | 8.09 | 8.61 | 8.42 | 8.01 | 9.04 | 9.32 | 9.04 |
| 6           | 9.15      | 8.97 | 8.48     | 8.15     | 8.17 | 8.09 | 8.61 | 8.39 | 8.03 | 9.06 | 9.32 | 9.04 |
| 7           | 9.15      | 8.97 | 8.47     | 8.17     | 8.17 | 8.09 | 8.61 | 8.33 | 8.10 | 9.14 | 9.31 | 9.05 |
| 8           | 9.16      | 8.97 | 8.47     | 8.18     | 8.17 | 8.08 | 8.61 | 8.33 | 8.11 | 9.28 | 9.30 | 9.06 |
| 9           | 9.16      | 8.96 | 8.46     | 8.20     | 8.16 | 8.08 | 8.60 | 8.33 | 8.07 | 9.25 | 9.30 | 9.00 |
| 10          | 9.15      | 8.96 | 8.46     | 8.22     | 8.16 | 8.10 | 8.60 | 8.33 | 8.07 | 9.24 | 9.28 | 8.91 |
| 11          | 9.14      | 8.96 | 8.45     | 8.21     | 8.15 | 8.15 | 8.60 | 8.33 | 8.07 | 9.26 | 9.30 | 8.89 |
| 12          | 9.14      | 8.91 | 8.45     | 8.19     | 8.15 | 8.12 | 8.60 | 8.32 | 8.05 | 9.25 | 9.16 | 8.89 |
| 13          | 9.14      | 8.83 | 8.45     | 8.19     | 8.14 | 8.12 | 8.61 | 8.28 | 8.05 | 9.24 | 9.07 | 8.89 |
| 14          | 9.13      | 8.83 | 8.45     | 8.18     | 8.14 | 8.11 | 8.61 | 8.16 | 8.05 | 9.24 | 9.08 | 8.88 |
| 15          | 9.18      | 8.82 | 8.45     | 8.18     | 8.13 | 8.10 | 8.53 | 8.13 | 8.05 | 9.23 | 9.07 | 8.88 |
| 16          | 9.27      | 8.82 | 8.44     | 8.18     | 8.13 | 8.10 | 8.46 | 8.12 | 8.06 | 9.22 | 9.08 | 8.88 |
| 17          | 9.27      | 8.82 | 8.41     | 8.18     | 8.12 | 8.10 | 8.46 | 8.11 | 8.09 | 9.21 | 9.10 | 8.88 |
| 18          | 9.28      | 8.82 | 8.37     | 8.17     | 8.15 | 8.11 | 8.46 | 8.09 | 8.12 | 9.22 | 9.12 | 8.88 |
| 19          | 9.29      | 8.75 | 8.36     | 8.17     | 8.14 | 8.14 | 8.46 | 8.08 | 8.16 | 9.25 | 9.23 | 8.87 |
| 20          | 9.30      | 8.66 | 8.36     | 8.17     | 8.13 | 8.14 | 8.46 | 8.08 | 8.17 | 9.22 | 9.22 | 8.88 |
| 21          | 9.30      | 8.64 | 8.36     | 8.22     | 8.12 | 8.16 | 8.45 | 8.06 | 8.14 | 9.21 | 9.04 | 8.89 |
| 22          | 9.19      | 8.63 | 8.35     | 8.31     | 8.12 | 8.15 | 8.45 | 8.08 | 8.15 | 9.27 | 9.04 | 8.89 |
| 23          | 9.11      | 8.63 | 8.35     | 8.32     | 8.12 | 8.16 | 8.45 | 8.09 | 8.14 | 9.27 | 9.03 | 8.83 |
| 24          | 9.11      | 8.63 | 8.35     | 8.32     | 8.11 | 8.16 | 8.45 | 8.07 | 8.14 | 9.25 | 9.02 | 8.77 |
| 25          | 9.11      | 8.62 | 8.33     | 8.32     | 8.10 | 8.24 | 8.44 | 8.05 | 8.37 | 9.24 | 9.02 | 8.76 |
| 26          | 9.11      | 8.59 | 8.34     | 8.32     | 8.10 | 8.37 | 8.44 | 8.04 | 8.52 | 9.25 | 9.07 | 8.76 |
| 27          | 9.15      | 8.55 | 8.33     | 8.32     | 8.10 | 8.37 | 8.44 | 8.01 | 8.54 | 9.30 | 9.11 | 8.76 |
| 28          | 9.15      | 8.55 | 8.33     | 8.33     | 8.10 | 8.38 | 8.44 | 8.00 | 8.54 | 9.31 | 9.12 | 8.76 |
| 29          | 9.08      | 8.55 | 8.33     | 8.32     | ---  | 8.38 | 8.43 | 8.00 | 8.56 | 9.31 | 9.12 | 8.75 |
| 30          | 9.03      | 8.54 | 8.33     | 8.31     | ---  | 8.40 | 8.43 | 8.00 | 8.67 | 9.31 | 9.12 | 8.75 |
| 31          | 9.02      | ---  | 8.27     | 8.31     | ---  | 8.39 | ---  | 8.00 | ---  | 9.30 | 9.11 | ---  |
| MEAN        | 9.16      | 8.80 | 8.41     | 8.23     | 8.16 | 8.17 | 8.52 | 8.19 | 8.17 | 9.21 | 9.17 | 8.90 |
| MAX         | 9.30      | 9.03 | 8.54     | 8.33     | 8.32 | 8.40 | 8.61 | 8.43 | 8.67 | 9.31 | 9.32 | 9.10 |
| MIN         | 9.02      | 8.54 | 8.27     | 8.15     | 8.10 | 8.08 | 8.43 | 8.00 | 8.01 | 8.91 | 9.02 | 8.75 |
| CAL YR 1985 | MEAN 7.98 |      | MAX 9.39 | MIN 5.62 |      |      |      |      |      |      |      |      |
| WTR YR 1986 | MEAN 8.60 |      | MAX 9.32 | MIN 8.00 |      |      |      |      |      |      |      |      |

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02289018 TAMIAMI CANAL ABOVE S-12-B, NEAR MIAMI, FL

LOCATION.--Lat 25°45'42", long 80°46'05", in N½ sec.19, T.54 S., R.36 E., Dade County, Hydrologic Unit 03090202, on south bank of levee 29 borrow ditch, 100 ft northwest of control structure 12-B, and 35 mi west of Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1963 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Station is one of several located above the gated control structures in levee 29 at Tamiami Canal. Gage record is primarily used to determine discharge through structure 12-B.

COOPERATION.--Gage-opening record provided by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 10.55 ft Oct. 26, 1968; minimum, 5.31 ft May 21, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 10.05 ft Oct. 27; minimum, 8.68 ft June 1.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT   | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|-------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 9.79  | 9.94 | 9.87 | 9.62 | 9.65 | 9.46 | 9.67 | 9.17 | 8.69 | 9.37 | 9.35 | 9.59 |
| 2    | 9.78  | 9.96 | 9.87 | 9.62 | 9.64 | 9.47 | 9.64 | 9.14 | 8.71 | 9.33 | 9.36 | 9.57 |
| 3    | 9.78  | 9.95 | 9.88 | 9.62 | 9.63 | 9.45 | 9.60 | 9.11 | 8.73 | 9.31 | 9.35 | 9.57 |
| 4    | 9.81  | 9.99 | 9.87 | 9.61 | 9.61 | 9.43 | 9.58 | 9.10 | 8.73 | 9.30 | 9.36 | 9.59 |
| 5    | 9.83  | 9.98 | 9.87 | 9.60 | 9.59 | 9.42 | 9.56 | 9.08 | 8.73 | 9.32 | 9.36 | 9.61 |
| 6    | 9.86  | 9.97 | 9.88 | 9.61 | 9.57 | 9.41 | 9.54 | 9.06 | 8.72 | 9.36 | 9.36 | 9.62 |
| 7    | 9.90  | 9.96 | 9.87 | 9.59 | 9.57 | 9.39 | 9.52 | 9.04 | 8.77 | 9.37 | 9.35 | 9.66 |
| 8    | 9.93  | 9.95 | 9.84 | 9.64 | 9.56 | 9.39 | 9.49 | 9.02 | 8.80 | 9.31 | 9.34 | 9.67 |
| 9    | 9.93  | 9.95 | 9.83 | 9.69 | 9.56 | 9.37 | 9.44 | 8.99 | 8.80 | 9.27 | 9.33 | 9.69 |
| 10   | 9.89  | 9.94 | 9.82 | 9.74 | 9.54 | 9.39 | 9.43 | 9.00 | 8.79 | 9.26 | 9.31 | 9.71 |
| 11   | 9.87  | 9.93 | 9.81 | 9.76 | 9.52 | 9.51 | 9.41 | 8.98 | 8.78 | 9.27 | 9.34 | 9.70 |
| 12   | 9.86  | 9.93 | 9.79 | 9.79 | 9.53 | 9.52 | 9.39 | 8.95 | 8.81 | 9.26 | 9.36 | 9.69 |
| 13   | 9.85  | 9.93 | 9.78 | 9.78 | 9.55 | 9.52 | 9.41 | 8.93 | 8.88 | 9.26 | 9.39 | 9.69 |
| 14   | 9.84  | 9.92 | 9.78 | 9.77 | 9.53 | 9.52 | 9.41 | 8.92 | 8.89 | 9.26 | 9.42 | 9.67 |
| 15   | 9.82  | 9.91 | 9.79 | 9.76 | 9.51 | 9.52 | 9.40 | 8.90 | 8.92 | 9.26 | 9.41 | 9.66 |
| 16   | 9.80  | 9.90 | 9.78 | 9.76 | 9.50 | 9.56 | 9.38 | 8.89 | 8.97 | 9.25 | 9.42 | 9.68 |
| 17   | 9.79  | 9.89 | 9.78 | 9.75 | 9.48 | 9.58 | 9.36 | 8.86 | 9.04 | 9.24 | 9.46 | 9.69 |
| 18   | 9.81  | 9.90 | 9.77 | 9.74 | 9.53 | 9.61 | 9.35 | 8.83 | 9.05 | 9.24 | 9.49 | 9.67 |
| 19   | 9.83  | 9.95 | 9.77 | 9.71 | 9.55 | 9.58 | 9.35 | 8.80 | 9.09 | 9.27 | 9.48 | 9.70 |
| 20   | 9.86  | 9.94 | 9.76 | 9.73 | 9.54 | 9.56 | 9.35 | 8.77 | 9.25 | 9.24 | 9.50 | 9.70 |
| 21   | 9.87  | 9.90 | 9.74 | 9.73 | 9.54 | 9.64 | 9.32 | 8.77 | 9.27 | 9.24 | 9.59 | 9.74 |
| 22   | 9.88  | 9.90 | 9.73 | 9.73 | 9.54 | 9.69 | 9.31 | 8.82 | 9.28 | 9.31 | 9.62 | 9.77 |
| 23   | 9.89  | 9.92 | 9.70 | 9.72 | 9.52 | 9.70 | 9.31 | 8.87 | 9.28 | 9.30 | 9.63 | 9.78 |
| 24   | 9.90  | 9.93 | 9.69 | 9.72 | 9.51 | 9.70 | 9.30 | 8.85 | 9.26 | 9.29 | 9.64 | 9.80 |
| 25   | 9.91  | 9.93 | 9.68 | 9.72 | 9.51 | 9.67 | 9.28 | 8.84 | 9.26 | 9.27 | 9.64 | 9.82 |
| 26   | 9.91  | 9.92 | 9.70 | 9.69 | 9.51 | 9.68 | 9.26 | 8.82 | 9.25 | 9.28 | 9.65 | 9.82 |
| 27   | 9.99  | 9.91 | 9.68 | 9.68 | 9.46 | 9.70 | 9.24 | 8.80 | 9.27 | 9.35 | 9.63 | 9.82 |
| 28   | 10.02 | 9.90 | 9.66 | 9.69 | 9.43 | 9.72 | 9.23 | 8.77 | 9.28 | 9.36 | 9.63 | 9.82 |
| 29   | 10.02 | 9.89 | 9.65 | 9.67 | ---  | 9.71 | 9.21 | 8.75 | 9.33 | 9.36 | 9.63 | 9.81 |
| 30   | 10.00 | 9.88 | 9.66 | 9.66 | ---  | 9.70 | 9.19 | 8.73 | 9.38 | 9.35 | 9.61 | 9.81 |
| 31   | 9.96  | ---  | 9.64 | 9.65 | ---  | 9.69 | ---  | 8.71 | ---  | 9.34 | 9.60 | ---  |
| MEAN | 9.88  | 9.93 | 9.77 | 9.70 | 9.54 | 9.56 | 9.40 | 8.91 | 9.00 | 9.30 | 9.47 | 9.70 |
| MAX  | 10.02 | 9.99 | 9.88 | 9.79 | 9.65 | 9.72 | 9.67 | 9.17 | 9.38 | 9.37 | 9.65 | 9.82 |
| MIN  | 9.78  | 9.88 | 9.64 | 9.59 | 9.43 | 9.37 | 9.19 | 8.71 | 8.69 | 9.24 | 9.31 | 9.57 |

CAL YR 1985 MEAN 8.39 MAX 10.02 MIN 5.60  
WTR YR 1986 MEAN 9.51 MAX 10.02 MIN 8.69

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

187

02289019 TAMiami CANAL BELOW S-12-B, NEAR MIAMI, FL

LOCATION.--Lat 25°45'40", long 80°46'05", in N½ sec.19, T.54 S., R.36 E., Dade County, Hydrologic Unit 03090202, on west bank of spillway, 100 ft southwest of control structure 12-B, and 35 mi west of Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1963 to September 1963, October 1966 to September 1975 (gage heights only), October 1963 to September 1985, October 1975 to current year. Discharge records for the missing periods above were either fragmentary or unavailable from the files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except those for estimated daily discharges, which are fair. Station is one of several located below the gated control structures in Levee 29 at Tamiami Canal. Gage record is primarily used to determine discharge through structure 12-B. Discharge computed from relation between discharge, head, and gate openings when flow is controlled by gates and computed by relation between stage and discharge under uncontrolled conditions.

COOPERATION.--Gate-opening record provided U.S. Army by Corps of Engineers.

AVERAGE DISCHARGE.--13 years (water years 1964-65, 1976-86), 98.2 ft<sup>3</sup>/s, 71,150 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 819 ft<sup>3</sup>/s Sept. 23, 1976; maximum gage height, 10.22 ft Nov. 7-11, 1969; no flow for some days most years; maximum daily reverse flow, 22 ft<sup>3</sup>/s Mar. 28, 1985; minimum gage height, 5.35 ft May 21, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 363 ft<sup>3</sup>/s July 8; maximum gage height, 9.46 ft Aug. 19; no flow for some days; minimum gage height, 7.80 ft May 27, 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT   | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN    | JUL   | AUG   | SEP  |
|-------|-------|------|------|------|------|------|------|------|--------|-------|-------|------|
| 1     | 333   | e220 | 67   | 24   | 40   | 22   | 94   | 47   | 26     | 223   | 275   | 241  |
| 2     | 270   | e220 | 67   | 24   | 40   | 22   | 116  | 46   | 26     | 247   | 278   | 237  |
| 3     | 271   | e221 | 63   | 24   | 39   | 21   | 114  | 46   | 27     | 241   | 277   | 223  |
| 4     | 275   | e219 | 60   | 24   | 39   | 21   | 113  | 45   | 27     | 237   | 277   | 217  |
| 5     | 283   | 210  | 60   | 24   | 39   | 21   | 112  | 45   | 27     | 238   | 278   | 220  |
| 6     | 287   | 202  | 60   | 24   | 39   | 21   | 111  | 36   | 27     | 242   | 279   | 220  |
| 7     | 294   | 202  | 60   | 24   | 39   | 21   | 109  | 28   | 27     | 290   | 278   | 225  |
| 8     | 299   | 201  | 60   | 24   | 39   | 21   | 108  | 28   | 28     | 363   | 274   | 226  |
| 9     | 298   | 200  | 60   | 24   | 39   | 21   | 115  | 28   | 28     | 350   | 270   | 189  |
| 10    | 293   | 199  | 40   | 24   | 39   | 21   | 125  | 28   | 14     | 342   | 264   | 157  |
| 11    | 288   | 199  | 28   | 25   | 31   | 22   | 125  | 28   | .00    | 338   | 273   | 156  |
| 12    | 286   | 173  | 28   | 25   | 21   | 22   | 124  | 27   | .00    | 325   | 255   | 156  |
| 13    | 287   | 138  | 28   | 25   | 22   | 22   | 124  | 22   | .00    | 311   | 249   | 156  |
| 14    | 288   | 138  | 28   | 39   | 22   | 22   | 124  | 18   | .00    | 300   | 255   | 155  |
| 15    | 305   | 138  | 28   | 45   | 21   | 22   | 104  | 18   | .00    | 288   | 254   | 154  |
| 16    | 331   | 137  | 28   | 45   | 21   | 22   | 84   | 18   | .00    | 275   | 256   | 156  |
| 17    | 328   | 137  | 28   | 45   | 21   | 23   | 78   | 18   | 8.3    | 262   | 263   | 156  |
| 18    | 332   | 138  | 28   | 45   | 21   | 32   | 78   | 18   | 15     | 254   | 268   | 154  |
| 19    | 334   | 116  | 28   | 45   | 22   | 36   | 78   | 18   | 15     | 261   | 274   | 157  |
| 20    | 338   | 96   | 28   | 45   | 22   | 35   | 78   | 18   | 16     | 251   | 248   | 156  |
| 21    | 341   | 95   | 28   | 45   | 22   | 36   | 76   | 18   | 16     | 250   | 204   | 159  |
| 22    | e286  | 95   | 28   | 44   | 22   | 37   | 65   | 18   | 17     | 270   | 208   | 160  |
| 23    | e264  | 96   | 28   | 44   | 22   | 37   | 59   | 19   | 17     | 266   | 210   | 136  |
| 24    | e266  | 97   | 28   | 44   | 22   | 37   | 59   | 19   | 17     | 262   | 210   | 118  |
| 25    | e267  | 96   | 28   | 44   | 22   | 45   | 58   | 19   | 67     | 257   | 210   | 119  |
| 26    | e267  | 78   | 28   | 44   | 22   | 53   | 58   | 19   | 95     | 260   | 235   | 120  |
| 27    | e273  | 67   | 28   | 44   | 21   | 53   | 57   | 28   | 95     | 278   | 250   | 120  |
| 28    | e279  | 67   | 28   | 44   | 21   | 53   | 57   | 30   | 95     | 282   | 248   | 120  |
| 29    | e244  | 67   | 28   | 44   | ---  | 53   | 52   | 28   | 97     | 282   | 248   | 119  |
| 30    | e226  | 67   | 24   | 44   | ---  | 53   | 47   | 27   | 145    | 277   | 246   | 129  |
| 31    | e223  | ---  | 24   | 44   | ---  | 53   | ---  | 27   | ---    | 274   | 243   | ---  |
| TOTAL | 8956  | 4329 | 1177 | 1109 | 790  | 980  | 2702 | 832  | 972.30 | 8596  | 7857  | 5011 |
| MEAN  | 289   | 144  | 38.0 | 35.8 | 28.2 | 31.6 | 90.1 | 26.8 | 32.4   | 277   | 253   | 167  |
| MAX   | 341   | 221  | 67   | 45   | 40   | 53   | 125  | 47   | 145    | 363   | 279   | 241  |
| MIN   | 223   | 67   | 24   | 24   | 21   | 21   | 47   | 18   | .00    | 223   | 204   | 118  |
| AC-FT | 17760 | 8590 | 2330 | 2200 | 1570 | 1940 | 5360 | 1650 | 1930   | 17050 | 15580 | 9940 |

CAL YR 1985 TOTAL 30828.00 MEAN 84.5 MAX 414 MIN -22 AC-FT 61150  
WTR YR 1986 TOTAL 43311.30 MEAN 119 MAX 363 MIN .00 AC-FT 85910

e Estimated

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02289019 TAMiami CANAL BELOW S-12-B, NEAR MIAMI, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1           | 9.26 | 8.90 | 8.42 | 8.14 | 8.16 | 7.99 | 8.40 | 8.26 | 8.04 | 8.82 | 9.34 | 9.13 |
| 2           | 9.15 | 8.91 | 8.42 | 8.12 | 8.16 | 7.99 | 8.49 | 8.25 | 8.06 | 8.95 | 9.35 | 9.12 |
| 3           | 9.16 | 8.90 | 8.40 | 8.12 | 8.17 | 8.00 | 8.49 | 8.24 | 8.06 | 8.95 | 9.34 | 9.11 |
| 4           | 9.16 | 8.95 | 8.36 | 8.12 | 8.17 | 8.00 | 8.49 | 8.24 | 8.06 | 8.95 | 9.34 | 9.10 |
| 5           | 9.15 | 8.95 | 8.37 | 8.11 | 8.15 | 7.99 | 8.49 | 8.23 | 8.05 | 8.97 | 9.35 | 9.11 |
| 6           | 9.16 | 8.91 | 8.36 | 8.11 | 8.15 | 7.99 | 8.49 | 8.20 | 8.04 | 8.99 | 9.35 | 9.12 |
| 7           | 9.16 | 8.90 | 8.35 | 8.14 | 8.14 | 7.99 | 8.49 | 8.14 | 8.07 | 9.07 | 9.35 | 9.14 |
| 8           | 9.17 | 8.90 | 8.34 | 8.15 | 8.14 | 7.98 | 8.49 | 8.13 | 8.08 | 9.29 | 9.33 | 9.14 |
| 9           | 9.17 | 8.90 | 8.34 | 8.17 | 8.14 | 7.98 | 8.30 | 8.12 | 8.08 | 9.26 | 9.32 | 9.06 |
| 10          | 9.16 | 8.90 | 8.31 | 8.20 | 8.14 | 8.04 | 8.08 | 8.12 | 8.02 | 9.24 | 9.30 | 8.93 |
| 11          | 9.16 | 8.90 | 8.27 | 8.19 | 8.11 | 8.03 | 8.08 | 8.12 | 7.91 | 9.26 | 9.33 | 8.92 |
| 12          | 9.16 | 8.85 | 8.27 | 8.17 | 8.07 | 7.99 | 8.08 | 8.10 | 7.91 | 9.25 | 9.21 | 8.92 |
| 13          | 9.14 | 8.74 | 8.27 | 8.17 | 8.07 | 8.00 | 8.09 | 8.08 | 7.93 | 9.25 | 9.11 | 8.91 |
| 14          | 9.13 | 8.74 | 8.27 | 8.16 | 8.06 | 7.99 | 8.09 | 8.03 | 7.92 | 9.25 | 9.13 | 8.91 |
| 15          | 9.18 | 8.73 | 8.26 | 8.16 | 8.05 | 7.98 | 8.04 | 8.01 | 7.93 | 9.25 | 9.12 | 8.91 |
| 16          | 9.27 | 8.73 | 8.26 | 8.16 | 8.05 | 7.99 | 8.23 | 8.00 | 7.94 | 9.24 | 9.12 | 8.91 |
| 17          | 9.27 | 8.72 | 8.25 | 8.16 | 8.03 | 7.97 | 8.37 | 7.98 | 7.98 | 9.23 | 9.15 | 8.91 |
| 18          | 9.28 | 8.72 | 8.23 | 8.16 | 8.06 | 8.06 | 8.37 | 7.96 | 7.99 | 9.23 | 9.17 | 8.92 |
| 19          | 9.29 | 8.65 | 8.22 | 8.16 | 8.04 | 8.13 | 8.37 | 7.95 | 8.02 | 9.26 | 9.29 | 8.92 |
| 20          | 9.31 | 8.57 | 8.22 | 8.15 | 8.03 | 8.13 | 8.37 | 7.93 | 8.05 | 9.23 | 9.24 | 8.92 |
| 21          | 9.31 | 8.54 | 8.20 | 8.16 | 8.02 | 8.16 | 8.37 | 7.87 | 8.02 | 9.23 | 9.01 | 8.94 |
| 22          | 9.23 | 8.54 | 8.20 | 8.20 | 8.02 | 8.15 | 8.34 | 7.90 | 8.02 | 9.30 | 9.02 | 8.95 |
| 23          | 9.08 | 8.54 | 8.19 | 8.20 | 8.02 | 8.15 | 8.32 | 7.89 | 8.01 | 9.29 | 9.01 | 8.89 |
| 24          | 9.08 | 8.53 | 8.19 | 8.20 | 8.01 | 8.15 | 8.32 | 7.86 | 8.01 | 9.28 | 9.01 | 8.80 |
| 25          | 9.08 | 8.53 | 8.18 | 8.20 | 8.01 | 8.19 | 8.32 | 7.84 | 8.25 | 9.26 | 9.02 | 8.80 |
| 26          | 9.08 | 8.49 | 8.17 | 8.20 | 8.00 | 8.27 | 8.31 | 7.82 | 8.41 | 9.27 | 9.08 | 8.79 |
| 27          | 9.12 | 8.44 | 8.17 | 8.20 | 8.00 | 8.27 | 8.31 | 7.81 | 8.43 | 9.34 | 9.14 | 8.80 |
| 28          | 9.12 | 8.43 | 8.17 | 8.20 | 7.99 | 8.27 | 8.31 | 7.94 | 8.44 | 9.35 | 9.14 | 8.80 |
| 29          | 9.02 | 8.43 | 8.17 | 8.19 | ---  | 8.28 | 8.29 | 8.03 | 8.46 | 9.35 | 9.14 | 8.79 |
| 30          | 8.90 | 8.42 | 8.16 | 8.17 | ---  | 8.28 | 8.27 | 8.03 | 8.60 | 9.34 | 9.14 | 8.82 |
| 31          | 8.89 | ---  | 8.16 | 8.16 | ---  | 8.28 | ---  | 8.04 | ---  | 9.33 | 9.13 | ---  |
| MEAN        | 9.15 | 8.71 | 8.26 | 8.16 | 8.08 | 8.09 | 8.32 | 8.04 | 8.09 | 9.20 | 9.20 | 8.95 |
| MAX         | 9.31 | 8.95 | 8.42 | 8.20 | 8.17 | 8.28 | 8.49 | 8.26 | 8.60 | 9.35 | 9.35 | 9.14 |
| MIN         | 8.89 | 8.42 | 8.16 | 8.11 | 7.99 | 7.97 | 8.04 | 7.81 | 7.91 | 8.82 | 9.01 | 8.79 |
| CAL YR 1985 | MEAN | 7.92 | MAX  | 9.34 | MIN  | 5.59 |      |      |      |      |      |      |
| WTR YR 1986 | MEAN | 8.52 | MAX  | 9.35 | MIN  | 7.81 |      |      |      |      |      |      |



## EVERGLADES AND SOUTHEASTERN COASTAL AREA

189

02289030 LEVEE 3 CANAL NEAR CLEWISTON, FL

LOCATION.--Lat 26°25'50", long 80°56'50", in NW¼ sec.4, T.47 S., R.34 E., Hendry County, Hydrologic Unit 03090202, near center of span on upstream side of bridge on private road, 100 ft upstream from Deerfence Canal, 2 mi east of state Highway 846, and 22 mi south of Clewiston (revised).

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder and auxiliary water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by South Florida Water Management District). Prior to October 1974 at datum 0.15 ft lower. October 1979 to September 1981, water-stage recorder and electromagnetic velocity meter at site 3.6 mi downstream at present datum. Since October 1981, auxiliary water-stage recorder at site 3.6 mi downstream at present datum.

REMARKS.--Records poor. Flow at this location includes the flow of Deerfence Canal. Discharge computed using fall as a factor.

AVERAGE DISCHARGE.--17 years, 157 ft<sup>3</sup>/s, 113,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,850 ft<sup>3</sup>/s June 26, 1982; maximum gage height, 18.57 ft Aug. 4, 1973; maximum daily reverse flow, 242 ft<sup>3</sup>/s Mar. 8, 1980; no flow for some days each year; minimum gage height, 9.65 ft May 7, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 786 ft<sup>3</sup>/s Aug. 23; maximum gage height, 15.28 ft Aug. 23; maximum daily reverse flow, 45 ft<sup>3</sup>/s Dec. 2; no flow for many days; minimum gage height, 10.85 ft May 7, 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT   | NOV    | DEC    | JAN  | FEB  | MAR  | APR  | MAY  | JUN      | JUL   | AUG   | SEP   |
|-------|-------|--------|--------|------|------|------|------|------|----------|-------|-------|-------|
| 1     | 247   | 128    | -3.2   | e.00 | e.00 | e.00 | .00  | .00  | .00      | e531  | 228   | 488   |
| 2     | 246   | e36    | -45    | e.00 | e.00 | e.00 | .00  | .00  | .00      | e349  | 217   | 452   |
| 3     | 263   | e .00  | -42    | e.00 | e.00 | e.00 | .00  | .00  | .00      | e468  | 222   | 393   |
| 4     | 342   | e .00  | -22    | e.00 | e.00 | e.00 | .00  | .00  | .00      | e458  | 229   | 336   |
| 5     | 399   | e .00  | 24     | e.00 | e.00 | e.00 | .00  | .00  | .00      | e328  | 267   | 303   |
| 6     | 394   | e .00  | 24     | e.00 | e.00 | e.00 | .00  | .00  | .00      | e437  | 295   | 295   |
| 7     | 369   | e .00  | 67     | e.00 | e.00 | e.00 | .00  | .00  | .00      | e502  | 287   | 313   |
| 8     | 343   | e .00  | 85     | e.00 | e.00 | e.00 | .00  | .00  | .00      | e531  | 327   | 351   |
| 9     | 326   | e .00  | 99     | e.00 | e.00 | e.00 | .00  | .00  | 83       | e522  | 398   | 443   |
| 10    | 294   | e .00  | e.00   | e.00 | e.00 | e.00 | .00  | .00  | 112      | e524  | 411   | 517   |
| 11    | 283   | e .00  | e.00   | e.00 | e.00 | e.00 | .00  | .00  | 123      | e458  | 417   | 507   |
| 12    | 282   | e .00  | e.00   | e.00 | e.00 | e.00 | .00  | .00  | 110      | 410   | 436   | 465   |
| 13    | 280   | e .00  | e.00   | e.00 | e.00 | e.00 | .00  | .00  | 156      | 376   | 464   | 412   |
| 14    | 273   | e .00  | e.00   | e.00 | e.00 | e.00 | .00  | .00  | 215      | 402   | 478   | 377   |
| 15    | 261   | e .00  | e.00   | e.00 | e.00 | e.00 | .00  | .00  | 484      | 347   | 467   | 338   |
| 16    | 232   | e .00  | e.00   | e.00 | e.00 | e.00 | .00  | .00  | 689      | 304   | 445   | 303   |
| 17    | 223   | e .00  | e.00   | e.00 | e.00 | e.00 | .00  | .00  | 570      | 284   | 497   | 280   |
| 18    | 217   | e .00  | e.00   | e.00 | e.00 | e.00 | .00  | .00  | 617      | 259   | 543   | 276   |
| 19    | 211   | e .00  | e.00   | e.00 | e.00 | e.00 | .00  | .00  | e576     | 241   | 586   | 254   |
| 20    | 206   | e .00  | e.00   | e.00 | e.00 | e.00 | .00  | .00  | e642     | 222   | 609   | 233   |
| 21    | 204   | e .00  | e.00   | e.00 | e.00 | e.00 | .00  | .00  | e687     | 192   | 686   | 247   |
| 22    | 208   | e .00  | e.00   | e.00 | e.00 | e.00 | .00  | .00  | e705     | 249   | 739   | 243   |
| 23    | 205   | e .00  | e.00   | e.00 | e.00 | e.00 | .00  | .00  | e716     | 323   | 786   | 214   |
| 24    | 200   | e .00  | e.00   | e.00 | e.00 | e.00 | .00  | .00  | e710     | 309   | 751   | 187   |
| 25    | 193   | e .00  | e.00   | e.00 | e.00 | e.00 | .00  | .00  | e682     | 308   | 716   | 201   |
| 26    | 180   | e .00  | e.00   | e.00 | e.00 | e.00 | .00  | .00  | e646     | 339   | 685   | 190   |
| 27    | 189   | e .00  | e.00   | e.00 | e.00 | e.00 | .00  | .00  | e597     | 344   | 650   | 179   |
| 28    | 190   | e .00  | e.00   | e.00 | e.00 | e.00 | .00  | .00  | e568     | 324   | 603   | 159   |
| 29    | 182   | e .00  | e.00   | e.00 | ---  | e.00 | .00  | .00  | e550     | 298   | 570   | 147   |
| 30    | 192   | e .00  | e.00   | e.00 | ---  | e.00 | .00  | .00  | e559     | 268   | 517   | 147   |
| 31    | 194   | ---    | e.00   | e.00 | ---  | e.00 | ---  | .00  | ---      | 234   | 465   | ---   |
| TOTAL | 7828  | 164.00 | 186.80 | .00  | .00  | .00  | .00  | .00  | 10797.00 | 11141 | 14991 | 9250  |
| MEAN  | 253   | 5.47   | 6.03   | .000 | .000 | .000 | .000 | .000 | 360      | 359   | 484   | 308   |
| MAX   | 399   | 128    | 99     | .00  | .00  | .00  | .00  | .00  | 716      | 531   | 786   | 517   |
| MIN   | 180   | .00    | -45    | .00  | .00  | .00  | .00  | .00  | .00      | 192   | 217   | 147   |
| AC-FT | 15530 | 325    | 371    | .00  | .00  | .00  | .00  | .00  | 21420    | 22100 | 29730 | 18350 |

CAL YR 1985 TOTAL 40380.70 MEAN 111 MAX 581 MIN -222 AC-FT 80100  
WTR YR 1986 TOTAL 54357.80 MEAN 149 MAX 786 MIN -45 AC-FT 107800

e Estimated

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02289030 LEVEE 3 CANAL NEAR CLEWISTON, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1    | 12.94 | 12.56 | 11.85 | 11.79 | 12.41 | 11.88 | 12.76 | 11.05 | 11.29 | 14.01 | 13.33 | 14.02 |
| 2    | 12.50 | 12.56 | 11.84 | 11.90 | 12.39 | 12.05 | 12.68 | 10.96 | 11.33 | 13.90 | 13.29 | 13.87 |
| 3    | 12.95 | 12.48 | 11.86 | 11.87 | 12.34 | 12.08 | 12.52 | 10.93 | 11.33 | 13.77 | 13.35 | 13.64 |
| 4    | 13.41 | 12.52 | 11.82 | 11.82 | 12.18 | 12.02 | 12.44 | 10.96 | 11.30 | 13.66 | 13.29 | 13.68 |
| 5    | 13.63 | 12.53 | 11.84 | 11.85 | 12.12 | 11.91 | 12.28 | 10.95 | 11.14 | 13.64 | 13.43 | 13.64 |
| 6    | 13.77 | 12.48 | 12.03 | 11.95 | 12.06 | 11.81 | 12.02 | 10.96 | 10.96 | 14.19 | 13.56 | 13.54 |
| 7    | 13.59 | 12.40 | 12.07 | 12.01 | 12.02 | 11.78 | 11.87 | 10.89 | 11.23 | 14.42 | 13.57 | 13.59 |
| 8    | 13.46 | 12.30 | 12.12 | 12.37 | 11.97 | 11.68 | 11.70 | 10.89 | 11.26 | 14.40 | 13.73 | 13.76 |
| 9    | 13.27 | 12.14 | 12.16 | 12.74 | 11.94 | 11.60 | 11.54 | 10.92 | 11.57 | 14.28 | 14.06 | 14.20 |
| 10   | 13.16 | 11.97 | 12.18 | 12.90 | 11.86 | 11.56 | 11.45 | 10.96 | 12.09 | 14.13 | 14.18 | 14.42 |
| 11   | 13.11 | 11.83 | 12.17 | 13.13 | 11.80 | 11.67 | 11.41 | 10.97 | 12.62 | 13.88 | 14.24 | 14.28 |
| 12   | 12.99 | 11.74 | 12.12 | 13.03 | 11.76 | 12.08 | 11.42 | 11.01 | 12.80 | 13.63 | 14.29 | 14.10 |
| 13   | 12.83 | 11.70 | 12.07 | 12.91 | 11.74 | 12.35 | 11.55 | 11.04 | 12.98 | 13.53 | 14.43 | 13.95 |
| 14   | 12.84 | 11.68 | 12.06 | 12.88 | 11.74 | 12.53 | 11.73 | 11.06 | 13.26 | 13.65 | 14.50 | 13.81 |
| 15   | 12.74 | 11.65 | 12.10 | 12.86 | 11.68 | 12.64 | 11.63 | 11.09 | 13.90 | 13.55 | 14.47 | 13.53 |
| 16   | 12.76 | 11.57 | 12.09 | 12.86 | 11.69 | 12.80 | 11.32 | 11.12 | 14.43 | 13.64 | 14.38 | 13.41 |
| 17   | 13.06 | 11.49 | 12.06 | 12.84 | 11.63 | 12.84 | 11.17 | 11.16 | 14.13 | 13.53 | 14.59 | 13.16 |
| 18   | 13.05 | 11.59 | 12.08 | 12.85 | 11.73 | 12.82 | 11.23 | 11.19 | 14.45 | 13.46 | 14.70 | 12.93 |
| 19   | 13.07 | 12.15 | 12.09 | 12.84 | 11.90 | 12.77 | 11.30 | 11.19 | 14.35 | 13.35 | 14.56 | 12.45 |
| 20   | 13.06 | 12.37 | 12.01 | 12.82 | 12.03 | 12.74 | 11.32 | 11.16 | 14.78 | 13.15 | 14.61 | 12.57 |
| 21   | 13.03 | 12.44 | 11.98 | 12.79 | 12.06 | 12.74 | 11.23 | 11.21 | 15.07 | 13.02 | 14.89 | 13.04 |
| 22   | 13.00 | 12.47 | 11.96 | 12.78 | 12.02 | 12.75 | 11.18 | 11.32 | 15.19 | 13.49 | 15.07 | 12.88 |
| 23   | 12.99 | 12.41 | 11.90 | 12.77 | 11.93 | 12.75 | 11.19 | 11.39 | 15.26 | 13.76 | 15.27 | 12.60 |
| 24   | 13.01 | 12.33 | 11.81 | 12.74 | 11.93 | 12.70 | 11.18 | 11.45 | 15.22 | 13.71 | 15.17 | 12.43 |
| 25   | 12.97 | 12.26 | 11.80 | 12.70 | 11.91 | 12.61 | 11.19 | 11.44 | 15.04 | 13.74 | 15.06 | 11.86 |
| 26   | 12.86 | 12.18 | 11.80 | 12.65 | 11.90 | 12.62 | 11.18 | 11.40 | 14.81 | 13.89 | 14.95 | 11.67 |
| 27   | 12.81 | 12.09 | 11.78 | 12.63 | 11.84 | 12.87 | 11.16 | 11.33 | 14.49 | 13.93 | 14.80 | 11.52 |
| 28   | 12.81 | 12.02 | 11.73 | 12.56 | 11.81 | 12.96 | 11.16 | 11.31 | 14.29 | 13.85 | 14.59 | 11.58 |
| 29   | 12.74 | 11.95 | 11.70 | 12.50 | ---   | 12.93 | 11.14 | 11.32 | 14.15 | 13.72 | 14.45 | 11.76 |
| 30   | 12.63 | 11.89 | 11.76 | 12.48 | ---   | 12.89 | 11.11 | 11.30 | 14.22 | 13.58 | 14.22 | 11.42 |
| 31   | 12.54 | ---   | 11.75 | 12.45 | ---   | 12.83 | ---   | 11.28 | ---   | 13.42 | 13.98 | ---   |
| MEAN | 13.02 | 12.13 | 11.95 | 12.56 | 11.94 | 12.40 | 11.57 | 11.14 | 13.30 | 13.74 | 14.29 | 13.11 |
| MAX  | 13.77 | 12.56 | 12.18 | 13.13 | 12.41 | 12.96 | 12.76 | 11.45 | 15.26 | 14.42 | 15.27 | 14.42 |
| MIN  | 12.50 | 11.49 | 11.70 | 11.79 | 11.63 | 11.56 | 11.11 | 10.89 | 10.96 | 13.02 | 13.29 | 11.42 |

CAL YR 1985 MEAN 12.39 MAX 14.47 MIN 10.99  
WTR YR 1986 MEAN 12.60 MAX 15.27 MIN 10.89

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

191

02289040 TAMiami CANAL OUTLETS, LEVEE 67A TO 40-MILE BEND, NEAR MIAMI, FL

LOCATION.--Lat 25°45'22", long 80°43'34", in N½ sec.22, T.54 S., R.36 E., Dade County, Hydrologic Unit 03090202, on south bank of levee 29 borrow canal, 100 ft northwest of control structure 12-C, and 33 mi west of Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1939 to September 1963 (monthly discharge), October 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except those for estimated daily discharges, which are fair. Discharge is the total discharge through the S-12 structure A, B, C, and D from Conservation Area 3-A. Prior to October 1963 discharge was the total discharge of station, Tamiami Canal outlets, Miami to Monroe (station 02289000). The daily discharge computed from relation between discharge, head, and gate openings when flow is controlled by gates and computed by relation between stage and discharge under uncontrolled conditions.

COOPERATION.--Gate-opening records for S-12 complex provided by U.S. Army Corps of Engineers.

AVERAGE DISCHARGE.--46 years, 447 ft<sup>3</sup>/s, 323,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,810 ft<sup>3</sup>/s Aug. 10, 11, 1968; maximum gage height, 10.52 ft Oct. 26, 1968; no flow for some days most years; maximum daily reverse flow, 38 ft<sup>3</sup>/s Mar. 28, 1985; minimum gage height, 5.34 ft May 21, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,870 ft<sup>3</sup>/s July 8; maximum gage height, 10.09 ft Oct. 27; minimum daily discharge, 31 ft<sup>3</sup>/s June 11; minimum gage height, 8.68 ft June 6.

REVISIONS.--Revised figures of discharge for the water year 1983, superseding those published in the report for 1983 are given below:

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983  
MEAN VALUES

| DAY   | OCT    | NOV    | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1     | 2580   | 3230   | 2270  | 387   | 443   | 1560  | 906   | 845   | 384   | 555   | 663   | 808   |
| 2     | 2720   | 3210   | 1380  | 388   | 443   | 1530  | 898   | 839   | 384   | 626   | 660   | 917   |
| 3     | 2720   | 3140   | 993   | 424   | 446   | 1490  | 898   | 658   | 394   | 617   | 633   | 937   |
| 4     | 3110   | 3110   | 628   | 451   | 448   | 1450  | 890   | 476   | 402   | 610   | 662   | 940   |
| 5     | 3840   | 3200   | 647   | 451   | 447   | 1400  | 885   | 487   | 409   | 605   | 710   | 962   |
| 6     | 3770   | 3440   | 661   | 450   | 443   | 1360  | 893   | 487   | 411   | 599   | 694   | 954   |
| 7     | 3790   | 3400   | 671   | 448   | 447   | 1320  | 877   | 485   | 405   | 604   | 696   | 949   |
| 8     | 3690   | 3390   | 677   | 447   | 452   | 1320  | 868   | 480   | 449   | 656   | 701   | 963   |
| 9     | 3620   | 3490   | 685   | 446   | 450   | 1320  | 863   | 477   | 501   | 690   | 693   | 954   |
| 10    | 3530   | 3420   | 687   | 444   | 451   | 1310  | 868   | 475   | 506   | 684   | 689   | 934   |
| 11    | 3470   | 3360   | 690   | 442   | 457   | 1290  | 871   | 469   | 537   | 660   | 671   | 924   |
| 12    | 3380   | 3280   | 685   | 441   | 460   | 1270  | 868   | 463   | 562   | 619   | 645   | 952   |
| 13    | 3290   | 3230   | 693   | 434   | 474   | 1250  | 860   | 455   | 629   | 593   | 630   | 998   |
| 14    | 3260   | 3200   | 750   | 426   | 697   | 1240  | 854   | 445   | 644   | 581   | 625   | 988   |
| 15    | 3320   | 3170   | 744   | 424   | 1110  | 1220  | 849   | 436   | 615   | 573   | 643   | 983   |
| 16    | 3290   | 3100   | 747   | 422   | 1100  | 1290  | 849   | 433   | 583   | 563   | 657   | 997   |
| 17    | 3210   | 3070   | 758   | 417   | 1870  | 1300  | 849   | 436   | 556   | 554   | 662   | 1010  |
| 18    | 3290   | 3100   | 756   | 417   | 2590  | 1270  | 843   | 444   | 535   | 546   | 662   | 1020  |
| 19    | 3310   | 3050   | 750   | 414   | 2520  | 1260  | 838   | 460   | 538   | 540   | 692   | 1060  |
| 20    | 3330   | 3010   | 747   | 420   | 2470  | 1260  | 832   | 458   | 582   | 543   | 709   | 1080  |
| 21    | 3310   | 2960   | 744   | 431   | 2760  | 1270  | 829   | 453   | 620   | 565   | 672   | 1100  |
| 22    | 3320   | 2910   | 743   | 433   | 3600  | 1240  | 820   | 440   | 583   | 605   | 677   | 1120  |
| 23    | 3330   | 2860   | 738   | 447   | 3590  | 1160  | 809   | 432   | 589   | 602   | 675   | 1130  |
| 24    | 3360   | 2830   | 736   | 469   | 3480  | 1100  | 814   | 427   | 570   | 599   | 693   | 1170  |
| 25    | 3350   | 2770   | 735   | 474   | 3370  | 1060  | 812   | 416   | 577   | 594   | 732   | 1240  |
| 26    | 3350   | 2710   | 731   | 475   | 3290  | 1030  | 803   | 417   | 587   | 588   | 731   | 1250  |
| 27    | 3290   | 2670   | 727   | 463   | 3450  | 987   | 803   | 411   | 553   | 600   | 726   | 1260  |
| 28    | 3230   | 2610   | 729   | 455   | 3580  | 959   | 806   | 401   | 523   | 632   | 731   | 1260  |
| 29    | 3210   | 2410   | 720   | 454   | ---   | 941   | 809   | 384   | 505   | 662   | 757   | 1280  |
| 30    | 3190   | 2190   | 573   | 451   | ---   | 915   | 803   | 373   | 500   | 670   | 770   | 1260  |
| 31    | 3190   | ---    | 384   | 449   | ---   | 947   | ---   | 378   | ---   | 653   | 766   | ---   |
| TOTAL | 102650 | 91520  | 24179 | 13594 | 45338 | 38319 | 25467 | 14740 | 15633 | 18788 | 21327 | 31400 |
| MEAN  | 3311   | 3051   | 780   | 439   | 1619  | 1236  | 849   | 475   | 521   | 606   | 688   | 1047  |
| MAX   | 3840   | 3490   | 2270  | 475   | 3600  | 1560  | 906   | 845   | 644   | 690   | 770   | 1280  |
| MIN   | 2580   | 2190   | 384   | 387   | 443   | 915   | 803   | 373   | 384   | 540   | 625   | 808   |
| AC-FT | 203600 | 181500 | 47960 | 26960 | 89930 | 76010 | 50510 | 29240 | 31010 | 37270 | 42300 | 62280 |

CAL YR 1982 TOTAL 536552 MEAN 1470 MAX 4080 MIN 13 AC-FT 1064000

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02289040 TAMiami CANAL OUTLETS, LEVEE 67A TO 40-MILE BEND, NEAR MIAMI, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC  | JAN  | FEB  | MAR  | APR   | MAY  | JUN  | JUL   | AUG   | SEP   |
|-------|-------|-------|------|------|------|------|-------|------|------|-------|-------|-------|
| 1     | 1250  | e781  | 221  | 88   | 139  | 82   | 401   | 199  | 74   | e 947 | 1450  | e1020 |
| 2     | 1090  | e785  | 221  | 88   | 139  | 83   | 493   | 196  | 74   | 1130  | 1460  | e1010 |
| 3     | 1080  | e783  | 211  | 88   | 138  | 77   | 486   | 195  | 76   | 1100  | 1460  | 941   |
| 4     | 1090  | e275  | 201  | 88   | 131  | 81   | 481   | 193  | 76   | 1080  | 1460  | 908   |
| 5     | 1120  | 758   | 201  | 88   | 124  | 81   | 476   | 191  | 75   | 1090  | 1370  | 918   |
| 6     | 1140  | 719   | 202  | 88   | 123  | 81   | 472   | 154  | 75   | 1110  | 1150  | 924   |
| 7     | 1150  | 716   | 201  | 88   | 123  | 81   | 466   | 118  | 75   | 1430  | 1160  | 939   |
| 8     | 1070  | 715   | 201  | 88   | 123  | 80   | 460   | 117  | 76   | 1870  | 1150  | 941   |
| 9     | 1010  | 713   | 201  | 88   | 123  | 79   | 460   | 116  | 77   | 1810  | 1140  | 797   |
| 10    | 995   | 712   | 171  | 89   | 123  | 78   | 467   | 116  | e 56 | 1790  | 1120  | 659   |
| 11    | 987   | 711   | 151  | 91   | 115  | 76   | 465   | 115  | e 31 | 1800  | 1140  | 658   |
| 12    | 978   | 642   | 150  | 92   | 106  | 68   | 459   | 112  | e 32 | e1780 | 1030  | 658   |
| 13    | 978   | 546   | 150  | 92   | 108  | 68   | 461   | 101  | e 33 | e1760 | 979   | 657   |
| 14    | 978   | 534   | 150  | 117  | 106  | 68   | 462   | 92   | e 33 | e1750 | 1000  | 653   |
| 15    | 1030  | 529   | 150  | 128  | 105  | 68   | 354   | 92   | e 33 | e1730 | 1000  | 650   |
| 16    | 1110  | 525   | 150  | 128  | 105  | 68   | 278   | 92   | e 34 | e1710 | 1010  | 642   |
| 17    | 1110  | 524   | 132  | 127  | 105  | 69   | 272   | 90   | e 50 | e1690 | 1030  | 639   |
| 18    | 1120  | 526   | 122  | 127  | 105  | 108  | 271   | 90   | e 63 | e1690 | 1040  | 639   |
| 19    | 1130  | 425   | 122  | 126  | 91   | 129  | 271   | 89   | e 64 | 1720  | 1160  | 652   |
| 20    | 1140  | 333   | 122  | 127  | 83   | 127  | 270   | 69   | e 68 | 1690  | 1080  | 641   |
| 21    | 1140  | 330   | 122  | 143  | 83   | 130  | 266   | 58   | e 69 | 1690  | e 872 | 651   |
| 22    | e1020 | 331   | 122  | 156  | 83   | 134  | 245   | 59   | e 71 | 1600  | e 890 | 658   |
| 23    | e 943 | 334   | 121  | 156  | 83   | 134  | 232   | 60   | e 71 | 1400  | e 897 | 566   |
| 24    | e 951 | 335   | 109  | 156  | 83   | 134  | 232   | 60   | e 70 | 1390  | e 901 | 489   |
| 25    | e 951 | 334   | 103  | 156  | 83   | 176  | 229   | 60   | e264 | 1380  | e 902 | 493   |
| 26    | e 951 | 266   | 105  | 156  | 83   | 222  | 228   | 60   | e364 | 1390  | e1000 | 496   |
| 27    | e 969 | 223   | 103  | 155  | 81   | 224  | 225   | 78   | e363 | 1470  | e1060 | 497   |
| 28    | e 987 | 223   | 103  | 142  | 81   | 224  | 224   | 83   | e364 | 1490  | e1050 | 497   |
| 29    | e 874 | 221   | 103  | 133  | ---  | 224  | 213   | 79   | e371 | 1420  | e1050 | 493   |
| 30    | e 800 | 221   | 99   | 132  | ---  | 223  | 201   | 76   | e557 | 1390  | e1040 | 518   |
| 31    | e 788 | ---   | 91   | 133  | ---  | 223  | ---   | 76   | ---  | 1380  | e1030 | ---   |
| TOTAL | 31930 | 15070 | 4611 | 3654 | 2975 | 3700 | 10520 | 3286 | 3739 | 46677 | 34081 | 20904 |
| MEAN  | 1030  | 502   | 149  | 118  | 106  | 119  | 351   | 106  | 125  | 1506  | 1099  | 697   |
| MAX   | 1250  | 785   | 221  | 156  | 139  | 224  | 493   | 199  | 557  | 1870  | 1460  | 1020  |
| MIN   | 788   | 221   | 91   | 88   | 81   | 68   | 201   | 58   | 31   | 947   | 872   | 489   |
| AC-FT | 63330 | 29890 | 9150 | 7250 | 5900 | 7340 | 20870 | 6520 | 7420 | 92580 | 67600 | 41460 |

|             |       |           |      |     |     |      |     |     |       |        |
|-------------|-------|-----------|------|-----|-----|------|-----|-----|-------|--------|
| CAL YR 1985 | TOTAL | 128058.60 | MEAN | 351 | MAX | 1670 | MIN | -38 | AC-FT | 254000 |
| WTR YR 1986 | TOTAL | 181147.00 | MEAN | 496 | MAX | 1870 | MIN | 31  | AC-FT | 359300 |

e Estimated

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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02289040 TAMiami CANAL OUTLETS, LEVEE 67A TO 40-MILE BEND, NEAR MIAMI, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC  | JAN   | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------------|-------|-------|------|-------|------|------|------|------|------|------|------|------|
| 1           | 9.84  | 9.97  | 9.89 | 9.65  | 9.68 | 9.51 | 9.69 | 9.17 | 8.71 | 9.43 | 9.43 | 9.64 |
| 2           | 9.83  | 9.98  | 9.90 | 9.65  | 9.66 | 9.52 | 9.64 | 9.15 | 8.73 | 9.40 | 9.43 | 9.63 |
| 3           | 9.83  | 9.97  | 9.91 | 9.65  | 9.65 | 9.15 | 9.60 | 9.14 | 8.75 | 9.37 | 9.43 | 9.64 |
| 4           | 9.83  | 10.02 | 9.89 | 9.64  | 9.63 | 9.46 | 9.58 | 9.13 | 8.74 | 9.37 | 9.43 | 9.65 |
| 5           | 9.87  | 10.03 | 9.89 | 9.63  | 9.61 | 9.46 | 9.56 | 9.10 | 8.72 | 9.39 | 9.44 | 9.67 |
| 6           | 9.90  | 10.01 | 9.91 | 9.64  | 9.59 | 9.45 | 9.54 | 9.07 | 8.70 | 9.43 | 9.46 | 9.69 |
| 7           | 9.94  | 10.00 | 9.91 | 9.62  | 9.60 | 9.43 | 9.52 | 9.06 | 8.73 | 9.44 | 9.45 | 9.73 |
| 8           | 9.97  | 9.99  | 9.88 | 9.67  | 9.58 | 9.42 | 9.49 | 9.04 | 8.76 | 9.36 | 9.44 | 9.73 |
| 9           | 9.97  | 9.98  | 9.87 | 9.72  | 9.58 | 9.38 | 9.44 | 9.02 | 8.78 | 9.32 | 9.42 | 9.75 |
| 10          | 9.94  | 9.97  | 9.86 | 9.76  | 9.57 | 9.43 | 9.43 | 9.02 | 8.79 | 9.31 | 9.40 | 9.76 |
| 11          | 9.91  | 9.97  | 9.84 | 9.80  | 9.55 | 9.55 | 9.41 | 9.00 | 8.80 | 9.32 | 9.43 | 9.75 |
| 12          | 9.91  | 9.96  | 9.82 | 9.83  | 9.57 | 9.54 | 9.39 | 8.97 | 8.84 | 9.31 | 9.45 | 9.75 |
| 13          | 9.90  | 9.96  | 9.81 | 9.82  | 9.59 | 9.54 | 9.41 | 8.94 | 8.91 | 9.31 | 9.46 | 9.74 |
| 14          | 9.89  | 9.95  | 9.82 | 9.81  | 9.56 | 9.54 | 9.41 | 8.94 | 8.92 | 9.32 | 9.50 | 9.72 |
| 15          | 9.87  | 9.94  | 9.83 | 9.79  | 9.54 | 9.55 | 9.40 | 8.92 | 8.96 | 9.31 | 9.49 | 9.70 |
| 16          | 9.85  | 9.93  | 9.81 | 9.79  | 9.53 | 9.59 | 9.38 | 8.89 | 9.01 | 9.30 | 9.50 | 9.71 |
| 17          | 9.84  | 9.92  | 9.82 | 9.78  | 9.51 | 9.61 | 9.36 | 8.87 | 9.09 | 9.30 | 9.54 | 9.72 |
| 18          | 9.85  | 9.93  | 9.80 | 9.77  | 9.56 | 9.63 | 9.35 | 8.84 | 9.08 | 9.29 | 9.58 | 9.73 |
| 19          | 9.86  | 9.97  | 9.80 | 9.75  | 9.58 | 9.59 | 9.35 | 8.81 | 9.13 | 9.32 | 9.58 | 9.73 |
| 20          | 9.89  | 9.94  | 9.79 | 9.76  | 9.57 | 9.58 | 9.35 | 8.79 | 9.29 | 9.30 | 9.58 | 9.74 |
| 21          | 9.90  | 9.91  | 9.77 | 9.77  | 9.58 | 9.69 | 9.32 | 8.79 | 9.31 | 9.30 | 9.66 | 9.78 |
| 22          | 9.90  | 9.92  | 9.76 | 9.76  | 9.57 | 9.74 | 9.31 | 8.85 | 9.32 | 9.37 | 9.69 | 9.80 |
| 23          | 9.91  | 9.96  | 9.73 | 9.75  | 9.55 | 9.74 | 9.31 | 8.88 | 9.32 | 9.37 | 9.70 | 9.82 |
| 24          | 9.93  | 9.97  | 9.72 | 9.75  | 9.55 | 9.73 | 9.30 | 8.87 | 9.30 | 9.36 | 9.70 | 9.84 |
| 25          | 9.94  | 9.96  | 9.72 | 9.74  | 9.55 | 9.69 | 9.28 | 8.85 | 9.30 | 9.35 | 9.70 | 9.86 |
| 26          | 9.94  | 9.95  | 9.74 | 9.72  | 9.55 | 9.71 | 9.26 | 8.84 | 9.29 | 9.36 | 9.70 | 9.86 |
| 27          | 10.01 | 9.94  | 9.71 | 9.72  | 9.49 | 9.74 | 9.24 | 8.82 | 9.31 | 9.44 | 9.69 | 9.86 |
| 28          | 10.05 | 9.93  | 9.69 | 9.74  | 9.46 | 9.76 | 9.23 | 8.79 | 9.32 | 9.45 | 9.69 | 9.86 |
| 29          | 10.05 | 9.92  | 9.69 | 9.70  | ---  | 9.76 | 9.21 | 8.77 | 9.37 | 9.46 | 9.69 | 9.85 |
| 30          | 10.03 | 9.90  | 9.69 | 9.68  | ---  | 9.74 | 9.19 | 8.75 | 9.42 | 9.44 | 9.67 | 9.84 |
| 31          | 9.98  | ---   | 9.67 | 9.68  | ---  | 9.73 | ---  | 8.73 | ---  | 9.43 | 9.66 | ---  |
| MEAN        | 9.91  | 9.96  | 9.80 | 9.73  | 9.57 | 9.58 | 9.40 | 8.93 | 9.02 | 9.36 | 9.55 | 9.75 |
| MAX         | 10.05 | 10.03 | 9.91 | 9.83  | 9.68 | 9.76 | 9.69 | 9.17 | 9.42 | 9.46 | 9.70 | 9.86 |
| MIN         | 9.83  | 9.90  | 9.67 | 9.62  | 9.46 | 9.15 | 9.19 | 8.73 | 8.70 | 9.29 | 9.40 | 9.63 |
| CAL YR 1985 | MEAN  | 8.42  | MAX  | 10.05 | MIN  | 5.62 |      |      |      |      |      |      |
| WTR YR 1986 | MEAN  | 9.55  | MAX  | 10.05 | MIN  | 8.70 |      |      |      |      |      |      |



## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02289041 TAMiami CANAL BELOW S-12-C, NEAR MIAMI, FL

LOCATION.--Lat 25°45'40", long 80°43'34", in N½ sec.22, T.54 S., R.36 E., Hydrologic Unit 03090202, on west bank of spillway, 100 ft southwest of control structure 12-C, and 33 mi west of Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1963 to September 1963, October 1965 to September 1976 (gage heights only), October 1963 to September 1965, October 1976 to current year. Discharge records for missing periods were fragmentary or missing from the files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except those for estimated daily discharges, which are fair. Station is one of several located downstream from the control structures in Levee 29 at Tamiami Canal. Gage record is primarily used to determine discharge through control structure 12-C. Discharge is the total discharge through the S-12-C structure, from Conservation Area 3A. The daily discharge computed from relation between discharge, head, and gate-openings when flow is controlled by gates and computed by relation between stage and discharge under uncontrolled conditions.

COOPERATION.--Gate-opening records for S-12-C provided by U.S. Army Corps of Engineers.

AVERAGE DISCHARGE.--12 years (water years 1964-65, 1977-86), 136 ft<sup>3</sup>/s, 194,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,340 ft<sup>3</sup>/s Oct. 17, 1978; maximum gage heights, 10.36 ft Nov. 5-8, 10, 1969; no flow for some days most years; maximum daily reverse flow, 13 ft<sup>3</sup>/s Feb. 27, 1985; minimum gage height, 5.37 ft May 21, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 540 ft<sup>3</sup>/s July 8; maximum gage height, 9.37 ft July 21, Aug. 5; no flow for a few days; minimum gage height, 7.78 ft May 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT   | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN    | JUL   | AUG   | SEP   |
|-------|-------|------|------|------|------|------|------|------|--------|-------|-------|-------|
| 1     | 340   | 207  | 50   | 37   | 34   | 33   | 98   | 46   | 24     | e252  | 457   | 233   |
| 2     | 284   | 208  | 50   | 37   | 34   | 34   | 120  | 45   | 24     | 303   | 456   | 232   |
| 3     | 282   | 207  | 50   | 37   | 34   | 29   | 118  | 45   | 25     | 297   | 459   | 232   |
| 4     | 283   | 210  | 50   | 37   | 34   | 33   | 117  | 45   | 25     | 293   | 459   | 233   |
| 5     | 288   | 212  | 50   | 37   | 33   | 33   | 116  | 44   | 24     | 296   | 391   | 236   |
| 6     | 291   | 211  | 50   | 37   | 33   | 33   | 115  | 37   | 24     | 300   | 272   | 237   |
| 7     | 297   | 210  | 50   | 37   | 33   | 33   | 114  | 30   | 24     | 395   | 275   | 240   |
| 8     | 300   | 210  | 50   | 37   | 33   | 33   | 112  | 30   | 24     | 540   | 274   | 240   |
| 9     | 299   | 209  | 50   | 38   | 33   | 32   | 110  | 30   | 25     | 466   | 271   | 211   |
| 10    | 295   | 209  | 50   | 38   | 33   | 32   | 109  | 30   | e14    | 464   | 267   | 178   |
| 11    | 292   | 209  | 50   | 39   | 33   | e27  | 109  | 29   | .00    | 467   | 271   | 178   |
| 12    | 292   | 188  | 50   | 39   | 34   | e19  | 107  | 29   | .00    | 468   | 257   | 178   |
| 13    | 291   | 155  | 50   | 39   | 34   | e19  | 108  | 29   | .00    | 469   | 251   | 177   |
| 14    | 290   | 155  | 50   | 39   | 33   | 19   | 108  | 29   | .00    | 471   | 256   | 176   |
| 15    | 287   | 155  | 50   | 39   | 33   | 19   | 79   | 29   | .00    | 471   | 255   | 175   |
| 16    | 283   | 154  | 50   | 39   | 33   | 19   | 61   | 29   | .00    | 471   | 257   | 163   |
| 17    | 281   | 154  | 42   | 38   | 33   | 19   | 61   | 28   | e 9.4  | 471   | 262   | 157   |
| 18    | 282   | 154  | 38   | 39   | 33   | 31   | 60   | 28   | 16     | 473   | 266   | 158   |
| 19    | 283   | 126  | 38   | 38   | 34   | 37   | 61   | 28   | 16     | 483   | 291   | 167   |
| 20    | 285   | 101  | 38   | 38   | 34   | 37   | 60   | 19   | e 17   | 474   | 262   | 158   |
| 21    | 286   | 100  | 38   | 50   | 34   | 38   | 60   | 15   | e 17   | 476   | 218   | 161   |
| 22    | 279   | 101  | 38   | 62   | 34   | 39   | 60   | 15   | e 18   | 467   | 222   | 162   |
| 23    | 277   | 102  | 37   | 62   | 34   | 39   | 60   | 15   | e 18   | 437   | 224   | 140   |
| 24    | 279   | 102  | 37   | 62   | 34   | 39   | 60   | 15   | e 17   | 440   | 225   | 120   |
| 25    | 281   | 102  | 37   | 62   | 34   | 47   | 59   | 15   | e 66   | 435   | 225   | 121   |
| 26    | 280   | 70   | 38   | 62   | 34   | 56   | 59   | 15   | e 92   | 437   | 235   | 121   |
| 27    | 284   | 50   | 37   | 62   | 33   | 57   | 58   | 24   | e 92   | 465   | 240   | 122   |
| 28    | 290   | 50   | 37   | 47   | 33   | 57   | 58   | 27   | e 92   | 466   | 239   | 122   |
| 29    | 244   | 50   | 37   | 37   | ---  | 57   | 53   | 26   | e 94   | 468   | 239   | 121   |
| 30    | 211   | 50   | 37   | 37   | ---  | 57   | 46   | 25   | e141   | 468   | 237   | 125   |
| 31    | 208   | ---  | 37   | 37   | ---  | 57   | ---  | 25   | ---    | 459   | 234   | ---   |
| TOTAL | 8744  | 4421 | 1366 | 1339 | 938  | 1114 | 2516 | 876  | 938.40 | 13342 | 8747  | 5274  |
| MEAN  | 282   | 147  | 44.1 | 43.2 | 33.5 | 35.9 | 83.9 | 28.3 | 31.3   | 430   | 282   | 176   |
| MAX   | 340   | 212  | 50   | 62   | 34   | 57   | 120  | 46   | 141    | 540   | 459   | 240   |
| MIN   | 208   | 50   | 37   | 37   | 33   | 19   | 46   | 15   | .00    | 252   | 218   | 120   |
| AC-FT | 17340 | 8770 | 2710 | 2660 | 1860 | 2210 | 4990 | 1740 | 1860   | 26460 | 17350 | 10460 |

CAL YR 1985 TOTAL 36668.30 MEAN 100 MAX 414 MIN -13 AC-FT 72730  
WTR YR 1986 TOTAL 49615.40 MEAN 136 MAX 540 MIN .00 AC-FT 98410

e Estimated

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

195

02289041 TAMIAMI CANAL BELOW S-12-C, NEAR MIAMI, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR   | APR  | MAY  | JUN   | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|-------|------|------|-------|------|------|------|
| 1    | 8.90 | 8.68 | 8.26 | 8.06 | 8.09 | 7.98  | 8.24 | 8.15 | 7.98  | 8.56 | 9.17 | 8.79 |
| 2    | 8.80 | 8.68 | 8.27 | 8.05 | 8.08 | 7.97  | 8.33 | 8.14 | 8.00  | 8.69 | 9.17 | 8.79 |
| 3    | 8.82 | 8.69 | 8.27 | 8.05 | 8.08 | 7.97  | 8.34 | 8.14 | 7.99  | 8.70 | 9.17 | 8.79 |
| 4    | 8.81 | 8.70 | 8.25 | 8.04 | 8.08 | 7.97  | 8.34 | 8.14 | 7.99  | 8.70 | 9.17 | 8.79 |
| 5    | 8.81 | 8.68 | 8.25 | 8.04 | 8.07 | 7.97  | 8.34 | 8.14 | 7.99  | 8.72 | 9.09 | 8.80 |
| 6    | 8.82 | 8.67 | 8.25 | 8.03 | 8.07 | 7.97  | 8.34 | 8.11 | 7.98  | 8.74 | 8.88 | 8.81 |
| 7    | 8.82 | 8.67 | 8.24 | 8.05 | 8.07 | 7.96  | 8.34 | 8.06 | 8.00  | 8.89 | 8.87 | 8.82 |
| 8    | 8.83 | 8.67 | 8.24 | 8.06 | 8.07 | 7.96  | 8.34 | 8.06 | 8.02  | 9.22 | 8.86 | 8.82 |
| 9    | 8.83 | 8.66 | 8.24 | 8.07 | 8.06 | 7.96  | 8.34 | 8.05 | 8.04  | 9.30 | 8.85 | 8.77 |
| 10   | 8.83 | 8.66 | 8.23 | 8.09 | 8.06 | 8.02  | 8.34 | 8.04 | e8.01 | 9.29 | 8.84 | 8.68 |
| 11   | 8.83 | 8.66 | 8.20 | 8.08 | 8.05 | e8.02 | 8.34 | 8.04 | e7.90 | 9.30 | 8.87 | 8.67 |
| 12   | 8.82 | 8.63 | 8.20 | 8.06 | 8.03 | e8.00 | 8.34 | 8.04 | e7.90 | 9.30 | 8.82 | 8.67 |
| 13   | 8.82 | 8.55 | 8.20 | 8.06 | 8.03 | e7.98 | 8.36 | 8.03 | e7.89 | 9.29 | 8.77 | 8.66 |
| 14   | 8.82 | 8.54 | 8.20 | 8.05 | 8.03 | 7.94  | 8.35 | 8.00 | e7.89 | 9.30 | 8.78 | 8.66 |
| 15   | 8.82 | 8.54 | 8.20 | 8.06 | 8.02 | 7.93  | 8.29 | 7.99 | e7.90 | 9.29 | 8.77 | 8.66 |
| 16   | 8.84 | 8.53 | 8.20 | 8.06 | 8.02 | 7.94  | 8.23 | 7.98 | e7.92 | 9.28 | 8.77 | 8.64 |
| 17   | 8.83 | 8.53 | 8.18 | 8.06 | 8.01 | 7.93  | 8.23 | 7.97 | e7.93 | 9.28 | 8.79 | 8.62 |
| 18   | 8.84 | 8.53 | 8.14 | 8.05 | 8.03 | 7.97  | 8.23 | 7.95 | 7.94  | 9.28 | 8.80 | 8.62 |
| 19   | 8.85 | 8.48 | 8.13 | 8.05 | 8.01 | 8.04  | 8.22 | 7.95 | 7.97  | 9.30 | 8.85 | 8.48 |
| 20   | 8.86 | 8.42 | 8.13 | 8.05 | 8.00 | 8.04  | 8.22 | 7.92 | 7.98  | 9.28 | 8.86 | 8.62 |
| 21   | 8.86 | 8.40 | 8.12 | 8.07 | 7.99 | 8.08  | 8.22 | 7.85 | 7.96  | 9.28 | 8.71 | 8.63 |
| 22   | 8.82 | 8.39 | 8.11 | 8.13 | 7.99 | 8.06  | 8.22 | 7.89 | 7.95  | 9.25 | 8.71 | 8.64 |
| 23   | 8.78 | 8.39 | 8.11 | 8.13 | 7.99 | 8.06  | 8.21 | 7.87 | 7.95  | 9.13 | 8.71 | 8.60 |
| 24   | 8.78 | 8.39 | 8.11 | 8.13 | 7.99 | 8.06  | 8.20 | 7.84 | 7.96  | 9.12 | 8.70 | 8.53 |
| 25   | 8.78 | 8.38 | 8.10 | 8.13 | 7.98 | 8.08  | 8.20 | 7.82 | 8.10  | 9.11 | 8.70 | 8.53 |
| 26   | 8.78 | 8.34 | 8.09 | 8.13 | 7.98 | 8.15  | 8.20 | 7.81 | 8.24  | 9.12 | 8.74 | 8.52 |
| 27   | 8.82 | 8.28 | 8.08 | 8.14 | 7.98 | 8.14  | 8.20 | 7.79 | 8.26  | 9.17 | 8.79 | 8.52 |
| 28   | 8.82 | 8.27 | 8.09 | 8.12 | 7.97 | 8.14  | 8.20 | 7.87 | 8.27  | 9.18 | 8.79 | 8.52 |
| 29   | 8.75 | 8.27 | 8.09 | 8.10 | ---  | 8.15  | 8.18 | 7.96 | 8.28  | 9.18 | 8.79 | 8.52 |
| 30   | 8.69 | 8.26 | 8.07 | 8.09 | ---  | 8.15  | 8.15 | 7.97 | 8.36  | 9.17 | 8.79 | 8.54 |
| 31   | 8.68 | ---  | 8.07 | 8.09 | ---  | 8.15  | ---  | 7.97 | ---   | 9.17 | 8.79 | ---  |
| MEAN | 8.81 | 8.52 | 8.17 | 8.08 | 8.03 | 8.02  | 8.27 | 7.99 | 8.02  | 9.12 | 8.85 | 8.66 |
| MAX  | 8.90 | 8.70 | 8.27 | 8.14 | 8.09 | 8.15  | 8.36 | 8.15 | 8.36  | 9.30 | 9.17 | 8.82 |
| MIN  | 8.68 | 8.26 | 8.07 | 8.03 | 7.97 | 7.93  | 8.15 | 7.79 | 7.89  | 8.56 | 8.70 | 8.48 |

CAL YR 1985 MEAN 7.85 MAX 8.98 MIN 5.62  
WTR YR 1986 MEAN 8.38 MAX 9.30 MIN 7.79

e Estimated

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

254543080405400 TAMIAMI CANAL ABOVE S-12-D, NEAR MIAMI, FL

LOCATION.--Lat 25°45'43", long 80°40'54", in sec.14, T.54 S., R.36 E., Dade County, Hydrologic Unit 03090202, on north bank of Levee 29, 200 ft northeast of structure S-12-D, 30 mi west of Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1981 to current year (gage heights only). Records prior to October 1981 are fragmentary or missing from files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Station is one of several located above the gated control structures in Levee 29 at Tamiami Canal. Gage record is primarily used to determine discharge through Structure 12-D.

COOPERATION.--Gate-opening record provided by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 10.38 ft Feb. 16, 17, 1983; minimum, 5.60 ft June 9, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 10.10 ft Oct. 27; minimum, 8.65 ft June 6.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT   | NOV   | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG   | SEP   |
|------|-------|-------|------|------|------|------|------|------|------|------|-------|-------|
| 1    | 9.91  | 9.97  | 9.87 | 9.63 | 9.65 | 9.51 | 9.68 | 9.17 | 8.67 | 9.41 | 9.46  | e9.68 |
| 2    | 9.86  | 9.98  | 9.87 | 9.62 | 9.63 | 9.51 | 9.65 | 9.14 | 8.69 | 9.39 | 9.46  | e9.65 |
| 3    | 9.83  | 9.97  | 9.89 | 9.62 | 9.62 | 9.47 | 9.61 | 9.11 | 8.71 | 9.36 | 9.46  | 9.64  |
| 4    | 9.83  | 10.02 | 9.87 | 9.60 | 9.60 | 9.44 | 9.58 | 9.10 | 8.70 | 9.36 | 9.47  | 9.66  |
| 5    | 9.87  | 10.02 | 9.87 | 9.60 | 9.58 | 9.44 | 9.57 | 9.06 | 8.68 | 9.39 | 9.47  | 9.69  |
| 6    | 9.90  | 10.00 | 9.89 | 9.61 | 9.57 | 9.43 | 9.55 | 9.05 | 8.66 | 9.43 | 9.49  | 9.71  |
| 7    | 9.97  | 9.99  | 9.88 | 9.60 | 9.57 | 9.40 | 9.53 | 9.04 | 8.68 | 9.45 | 9.48  | 9.74  |
| 8    | 9.99  | 9.97  | 9.85 | 9.65 | 9.56 | 9.37 | 9.51 | 9.01 | 8.71 | 9.37 | 9.46  | 9.74  |
| 9    | 9.97  | 9.96  | 9.84 | 9.69 | 9.56 | 9.30 | 9.48 | 8.99 | 8.75 | 9.33 | 9.45  | 9.75  |
| 10   | 9.95  | 9.95  | 9.82 | 9.72 | 9.54 | 9.37 | 9.47 | 8.99 | 8.76 | 9.32 | 9.42  | 9.76  |
| 11   | 9.92  | 9.94  | 9.81 | 9.79 | 9.53 | 9.48 | 9.44 | 8.97 | 8.75 | 9.34 | 9.46  | 9.74  |
| 12   | 9.92  | 9.93  | 9.80 | 9.80 | 9.56 | 9.47 | 9.41 | 8.93 | 8.81 | 9.34 | 9.47  | 9.74  |
| 13   | 9.91  | 9.93  | 9.78 | 9.80 | 9.57 | 9.48 | 9.44 | 8.91 | 8.89 | 9.34 | 9.49  | 9.73  |
| 14   | 9.90  | 9.92  | 9.80 | 9.78 | 9.54 | 9.51 | 9.44 | 8.90 | 8.89 | 9.34 | 9.53  | 9.72  |
| 15   | 9.87  | 9.91  | 9.81 | 9.77 | 9.51 | 9.53 | 9.42 | 8.88 | 8.93 | 9.33 | 9.52  | 9.70  |
| 16   | 9.86  | 9.90  | 9.79 | 9.76 | 9.50 | 9.57 | 9.41 | 8.86 | 8.98 | 9.33 | 9.53  | 9.70  |
| 17   | 9.84  | 9.89  | 9.79 | 9.75 | 9.48 | 9.59 | 9.40 | 8.83 | 9.06 | 9.32 | 9.58  | 9.70  |
| 18   | 9.84  | 9.90  | 9.78 | 9.74 | 9.54 | 9.59 | 9.39 | 8.80 | 9.06 | 9.32 | 9.61  | 9.71  |
| 19   | 9.86  | 9.93  | 9.78 | 9.73 | 9.56 | 9.56 | 9.37 | 8.77 | 9.12 | 9.35 | 9.62  | 9.72  |
| 20   | 9.89  | 9.89  | 9.77 | 9.75 | 9.56 | 9.56 | 9.34 | 8.75 | 9.29 | 9.33 | 9.62  | 9.72  |
| 21   | 9.90  | 9.87  | 9.75 | 9.75 | 9.56 | 9.67 | 9.31 | 8.76 | 9.29 | 9.32 | e9.70 | 9.76  |
| 22   | 9.90  | 9.89  | 9.74 | 9.73 | 9.55 | 9.73 | 9.31 | 8.81 | 9.29 | 9.38 | e9.73 | 9.78  |
| 23   | 9.91  | 9.93  | 9.71 | 9.73 | 9.53 | 9.71 | 9.31 | 8.85 | 9.29 | 9.40 | e9.73 | 9.80  |
| 24   | 9.92  | 9.94  | 9.69 | 9.73 | 9.54 | 9.70 | 9.30 | 8.84 | 9.27 | 9.38 | e9.74 | 9.83  |
| 25   | 9.93  | 9.93  | 9.70 | 9.71 | 9.54 | 9.66 | 9.28 | 8.82 | 9.28 | 9.37 | e9.74 | 9.84  |
| 26   | 9.93  | 9.92  | 9.72 | 9.70 | 9.53 | 9.68 | 9.26 | 8.80 | 9.27 | 9.40 | e9.74 | 9.84  |
| 27   | 10.01 | 9.91  | 9.68 | 9.71 | 9.47 | 9.72 | 9.25 | 8.78 | 9.29 | 9.49 | e9.73 | 9.84  |
| 28   | 10.05 | 9.90  | 9.67 | 9.72 | 9.44 | 9.74 | 9.23 | 8.75 | 9.32 | 9.50 | e9.73 | 9.83  |
| 29   | 10.04 | 9.89  | 9.67 | 9.67 | ---  | 9.73 | 9.22 | 8.73 | 9.36 | 9.51 | e9.73 | 9.82  |
| 30   | 10.03 | 9.88  | 9.67 | 9.65 | ---  | 9.71 | 9.19 | 8.71 | 9.42 | 9.50 | e9.71 | 9.82  |
| 31   | 9.98  | ---   | 9.64 | 9.65 | ---  | 9.70 | ---  | 8.68 | ---  | 9.48 | e9.70 | ---   |
| MEAN | 9.92  | 9.93  | 9.78 | 9.70 | 9.55 | 9.56 | 9.41 | 8.90 | 9.00 | 9.38 | 9.58  | 9.75  |
| MAX  | 10.05 | 10.02 | 9.89 | 9.80 | 9.65 | 9.74 | 9.68 | 9.17 | 9.42 | 9.51 | 9.74  | 9.84  |
| MIN  | 9.83  | 9.87  | 9.64 | 9.60 | 9.44 | 9.30 | 9.19 | 8.68 | 8.66 | 9.32 | 9.42  | 9.64  |

CAL YR 1985 MEAN 8.42 MAX 10.06 MIN 5.62  
WTR YR 1986 MEAN 9.54 MAX 10.05 MIN 8.66

e Estimated

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

197

254543080405401 TAMiami CANAL BELOW S-12-D, NEAR MIAMI, FL

LOCATION.--Lat 25°45'43", long 80°40'54", in sec.14, T.54 S., R.36 E., Hydrologic Unit 03090202, on west bank 75 ft downstream of structure 12-D, and 30 mi west of Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1963 to September 1965, October 1975 to September 1977, October 1978 to September 1979, October 1980 to September 1981, discharge only, October 1981 to current year. Discharge and stage record for missing periods were fragmentary or missing from the files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except those for estimated daily discharges, which are fair. Station is one of several located downstream from the control structures in Levee 29 at Tamiami Canal. Gage record is primarily used to determine discharge through control structure 12-D. Discharge is the total discharge through the S-12-D structure, from Conservation Area 3A. The daily discharge computed from relation between discharge, head, and gate openings when flow is controlled by gates and computed by relation between stage and discharge under uncontrolled conditions.

COOPERATION.--Gate-opening record for S-12-D provided by U.S. Army Corps of Engineers.

AVERAGE DISCHARGE.-- 11 years (water years 1964-65, 1976-77, 1979-86), 155 ft<sup>3</sup>/s, 112,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,640 ft<sup>3</sup>/s; maximum gage height, 10.27 ft Nov. 5, 6, 1982; no flow for some days most years; maximum daily reverse flow, 16 ft<sup>3</sup>/s Mar. 28, 1985; minimum gage height, 5.50 ft June 9, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 686 ft<sup>3</sup>/s July 19; maximum gage height, 9.38 ft July 22, Aug. 5; minimum daily discharge, 12 ft<sup>3</sup>/s Mar. 9, 10; minimum gage height, 7.59 ft May 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT   | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL   | AUG   | SEP   |
|-------|-------|------|------|------|------|------|------|------|------|-------|-------|-------|
| 1     | 411   | 230  | 62   | 18   | 38   | 13   | 107  | 50   | 13   | e239  | 397   | e299  |
| 2     | 421   | 231  | 62   | 18   | 38   | 13   | 131  | 50   | 13   | 303   | 393   | e294  |
| 3     | 416   | 230  | 63   | 18   | 38   | 13   | 130  | 50   | 13   | 297   | 393   | 260   |
| 4     | 415   | 225  | 62   | 18   | 38   | 13   | 129  | 49   | 13   | 295   | 395   | 241   |
| 5     | 422   | 222  | 62   | 18   | 38   | 13   | 128  | 49   | 13   | 298   | 367   | 244   |
| 6     | 428   | 205  | 63   | 18   | 37   | 13   | 127  | 42   | 13   | 302   | 274   | 247   |
| 7     | 438   | 205  | 62   | 18   | 37   | 13   | 126  | 35   | 13   | 430   | 277   | 249   |
| 8     | 328   | 204  | 62   | 18   | 37   | 12   | 125  | 34   | 13   | 604   | 277   | 249   |
| 9     | 262   | 203  | 62   | 18   | 37   | 12   | 123  | 34   | 13   | 645   | 275   | 212   |
| 10    | 263   | 203  | 47   | 19   | 37   | 12   | 122  | 34   | 22   | 641   | 272   | 178   |
| 11    | 261   | 203  | 38   | 19   | 37   | 13   | 121  | 34   | 31   | 651   | 276   | 178   |
| 12    | 261   | 188  | 38   | 19   | 37   | 13   | 119  | 33   | 32   | e655  | 253   | 178   |
| 13    | 260   | 167  | 38   | 19   | 38   | 13   | 120  | 33   | 33   | e660  | 241   | 178   |
| 14    | 259   | 153  | 38   | 34   | 37   | 13   | 120  | 33   | 33   | e664  | 246   | 177   |
| 15    | 281   | 146  | 38   | 41   | 37   | 13   | 91   | 33   | 33   | e666  | 245   | 176   |
| 16    | 321   | 146  | 38   | 41   | 37   | 13   | 72   | 33   | 34   | e670  | 246   | 176   |
| 17    | 319   | 145  | 38   | 41   | 37   | 13   | 72   | 32   | e 25 | e672  | 250   | 177   |
| 18    | 319   | 146  | 38   | 40   | 37   | 30   | 72   | 32   | e 18 | e677  | 252   | 177   |
| 19    | 320   | 115  | 38   | 40   | 21   | 42   | 71   | 32   | e 19 | 686   | 299   | 178   |
| 20    | 322   | 87   | 38   | 41   | 13   | 41   | 71   | 21   | e 20 | 681   | 296   | 178   |
| 21    | 324   | 86   | 38   | 41   | 13   | 42   | 70   | 14   | e 20 | 679   | e233  | 179   |
| 22    | 291   | 87   | 38   | 40   | 13   | 43   | 60   | 14   | e 20 | 562   | e237  | 181   |
| 23    | 265   | 88   | 38   | 40   | 13   | 43   | 53   | 14   | e 20 | 393   | e238  | 156   |
| 24    | 266   | 88   | 25   | 40   | 13   | 43   | 53   | 14   | e 20 | 394   | e239  | 133   |
| 25    | 268   | 88   | 18   | 40   | 13   | 51   | 53   | 14   | e 67 | 395   | e239  | 134   |
| 26    | 267   | 73   | 19   | 40   | 13   | 62   | 52   | 14   | e 90 | 397   | e280  | 135   |
| 27    | 270   | 63   | 18   | 40   | 13   | 63   | 52   | 14   | e 90 | 415   | e305  | 135   |
| 28    | 275   | 63   | 18   | 40   | 13   | 63   | 51   | 14   | e 90 | 421   | e304  | 135   |
| 29    | 251   | 62   | 18   | 40   | ---  | 63   | 51   | 13   | e 91 | 352   | e305  | 134   |
| 30    | 234   | 62   | 18   | 39   | ---  | 63   | 51   | 13   | e139 | 322   | e302  | 145   |
| 31    | 230   | ---  | 18   | 40   | ---  | 63   | ---  | 13   | ---  | 322   | e301  | ---   |
| TOTAL | 9668  | 4414 | 1253 | 956  | 810  | 930  | 2723 | 894  | 1064 | 15388 | 8907  | 5713  |
| MEAN  | 312   | 147  | 40.4 | 30.8 | 28.9 | 30.0 | 90.8 | 28.8 | 35.5 | 496   | 287   | 190   |
| MAX   | 438   | 231  | 63   | 41   | 38   | 63   | 131  | 50   | 139  | 686   | 397   | 299   |
| MIN   | 230   | 62   | 18   | 18   | 13   | 12   | 51   | 13   | 13   | 239   | 233   | 133   |
| AC-FT | 19180 | 8760 | 2490 | 1900 | 1610 | 1840 | 5400 | 1770 | 2110 | 30520 | 17670 | 11330 |

CAL YR 1985 TOTAL 36905.80 MEAN 101 MAX 438 MIN -16 AC-FT 73200  
WTR YR 1986 TOTAL 52720.00 MEAN 144 MAX 686 MIN 12 AC-FT 104600

e Estimated

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

254543080405401 TAMiami CANAL BELOW S-12-D, NEAR MIAMI, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT   | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN   | JUL   | AUG  | SEP  |
|------|-------|------|------|------|------|------|------|------|-------|-------|------|------|
| 1    | 8.75  | 8.49 | 8.02 | 7.69 | 7.84 | 7.65 | 8.05 | 7.97 | 7.66  | e8.41 | 8.95 | 8.68 |
| 2    | 8.64  | 8.49 | 8.02 | 7.69 | 7.84 | 7.64 | 8.15 | 7.95 | 7.66  | 8.55  | 8.95 | 8.68 |
| 3    | 8.64  | 8.48 | 8.01 | 7.68 | 7.83 | 7.65 | 8.15 | 7.93 | 7.65  | 8.56  | 8.96 | 8.66 |
| 4    | 8.64  | 8.50 | 8.01 | 7.68 | 7.83 | 7.65 | 8.15 | 7.93 | 7.65  | 8.57  | 8.96 | 8.62 |
| 5    | 8.64  | 8.47 | 8.01 | 7.68 | 7.83 | 7.65 | 8.15 | 7.93 | 7.65  | 8.59  | 8.95 | 8.63 |
| 6    | 8.65  | 8.41 | 8.01 | 7.68 | 7.83 | 7.65 | 8.15 | 7.90 | 7.65  | 8.60  | 8.73 | 8.63 |
| 7    | 8.65  | 8.41 | 8.01 | 7.70 | 7.83 | 7.64 | 8.16 | 7.84 | 7.66  | 8.81  | 8.71 | 8.64 |
| 8    | 8.66  | 8.41 | 8.00 | 7.69 | 7.83 | 7.64 | 8.16 | 7.83 | 7.66  | 9.24  | 8.69 | 8.64 |
| 9    | 8.62  | 8.41 | 8.00 | 7.70 | 7.83 | 7.64 | 8.17 | 7.82 | 7.66  | 9.34  | 8.69 | 8.59 |
| 10   | 8.58  | 8.41 | 7.96 | 7.71 | 7.83 | 7.71 | 8.18 | 7.81 | 7.70  | 9.33  | 8.68 | 8.49 |
| 11   | e8.58 | 8.40 | 7.91 | 7.70 | 7.82 | 7.70 | 8.18 | 7.81 | 7.78  | 9.34  | 8.70 | 8.48 |
| 12   | e8.57 | 8.38 | 7.91 | 7.69 | 7.82 | 7.66 | 8.18 | 7.81 | 7.80  | e9.34 | 8.65 | 8.47 |
| 13   | e8.57 | 8.32 | 7.90 | 7.69 | 7.82 | 7.67 | 8.19 | 7.81 | 7.82  | e9.34 | 8.60 | 8.47 |
| 14   | e8.57 | 8.30 | 7.89 | 7.75 | 7.82 | 7.66 | 8.19 | 7.81 | 7.81  | e9.34 | 8.60 | 8.46 |
| 15   | e8.61 | 8.28 | 7.89 | 7.84 | 7.82 | 7.64 | 8.12 | 7.80 | 7.83  | e9.33 | 8.61 | 8.46 |
| 16   | 8.66  | 8.27 | 7.89 | 7.84 | 7.82 | 7.65 | 8.03 | 7.80 | 7.84  | e9.33 | 8.61 | 8.46 |
| 17   | 8.66  | 8.27 | 7.87 | 7.84 | 7.82 | 7.64 | 8.03 | 7.79 | e7.82 | e9.32 | 8.62 | 8.45 |
| 18   | 8.66  | 8.27 | 7.86 | 7.84 | 7.85 | 7.72 | 8.03 | 7.78 | e7.69 | e9.32 | 8.64 | 8.46 |
| 19   | 8.67  | 8.20 | 7.85 | 7.83 | 7.77 | 7.84 | 8.03 | 7.78 | e7.70 | 9.35  | 8.70 | 8.45 |
| 20   | 8.68  | 8.13 | 7.85 | 7.83 | 7.68 | 7.84 | 8.03 | 7.72 | e7.72 | 9.33  | 8.71 | 8.46 |
| 21   | 8.68  | 8.12 | 7.84 | 7.83 | 7.67 | 7.88 | 8.02 | 7.61 | e7.70 | 9.33  | 8.59 | 8.48 |
| 22   | 8.63  | 8.11 | 7.82 | 7.84 | 7.67 | 7.86 | 8.00 | 7.65 | e7.68 | 9.27  | 8.58 | 8.48 |
| 23   | 8.56  | 8.11 | 7.81 | 7.84 | 7.67 | 7.86 | 7.97 | 7.62 | e7.66 | 9.13  | 8.58 | 8.43 |
| 24   | 8.56  | 8.11 | 7.77 | 7.84 | 7.66 | 7.86 | 7.97 | 7.61 | e7.68 | 9.11  | 8.57 | 8.37 |
| 25   | 8.56  | 8.11 | 7.72 | 7.84 | 7.66 | 7.89 | 7.97 | 7.60 | e7.80 | 9.10  | 8.57 | 8.37 |
| 26   | 8.56  | 8.07 | 7.70 | 7.84 | 7.65 | 7.96 | 7.97 | 7.60 | e7.97 | 9.13  | 8.63 | 8.36 |
| 27   | 8.60  | 8.03 | 7.70 | 7.84 | 7.65 | 7.96 | 7.97 | 7.60 | e8.00 | 9.19  | 8.68 | 8.36 |
| 28   | 8.60  | 8.02 | 7.71 | 7.84 | 7.65 | 7.95 | 7.97 | 7.61 | e8.02 | 9.19  | 8.69 | 8.36 |
| 29   | 8.55  | 8.02 | 7.70 | 7.85 | ---  | 7.95 | 7.97 | 7.64 | e8.05 | 9.06  | 8.69 | 8.35 |
| 30   | 8.51  | 8.02 | 7.69 | 7.84 | ---  | 7.95 | 7.97 | 7.64 | e8.11 | 8.97  | 8.69 | 8.38 |
| 31   | 8.49  | ---  | 7.69 | 7.84 | ---  | 7.95 | ---  | 7.65 | ---   | 8.95  | 8.68 | ---  |
| MEAN | 8.61  | 8.27 | 7.87 | 7.77 | 7.77 | 7.76 | 8.08 | 7.76 | 7.77  | 9.09  | 8.70 | 8.49 |
| MAX  | 8.75  | 8.50 | 8.02 | 7.85 | 7.85 | 7.96 | 8.19 | 7.97 | 8.11  | 9.35  | 8.96 | 8.68 |
| MIN  | 8.49  | 8.02 | 7.69 | 7.68 | 7.65 | 7.64 | 7.97 | 7.60 | 7.65  | 8.41  | 8.57 | 8.35 |

CAL YR 1985 MEAN 7.74 MAX 8.84 MIN 5.61  
WTR YR 1986 MEAN 8.17 MAX 9.35 MIN 7.60

e Estimated



## EVERGLADES AND SOUTHEASTERN COASTAL AREA

199

02289050 TAMIAMI CANAL ABOVE S-333 NEAR MIAMI, FL

LOCATION.--Lat 25°45'39", long 80°40'27", in S½ sec.6, T.54 S., R.37 E., Dade County, Hydrologic Unit 03090202, on right bank in control house of control structure 333 at Levee 67A, 100 ft north of U.S. Highway 41 and 29 mi west of Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1978 to September 1981 (gage heights), October 1981 to current year. Records prior to October 1981 are available in files of the South Florida Water Management District.

GAGE.--Water-stage recorder and gate-opening recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark).

REMARKS.--No estimated daily discharges. Records poor. Flow is regulated by operation of control structure 333. Discharge computed from relations between discharge, head, and gate opening.

COOPERATION.--Control structure 333 gate-operation records provided by South Florida Water Management District.

AVERAGE DISCHARGE.--5 years, 246 ft<sup>3</sup>/s, 178,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,610 ft<sup>3</sup>/s May 14, 1985; maximum gage height, 10.40 ft Nov. 5, 1982; no flow for many days each year; minimum gage height, 5.60 ft June 8, 9, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 967 ft<sup>3</sup>/s Oct. 4; maximum gage height, 10.17 ft Oct. 27; no flow Nov. 19; minimum gage height, 8.69 ft June 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT   | NOV      | DEC   | JAN   | FEB  | MAR  | APR   | MAY  | JUN   | JUL   | AUG   | SEP   |
|-------|-------|----------|-------|-------|------|------|-------|------|-------|-------|-------|-------|
| 1     | 469   | 757      | 337   | 143   | 200  | 116  | 470   | 232  | 108   | 647   | 670   | 526   |
| 2     | 837   | 758      | 338   | 143   | 200  | 115  | 588   | 233  | 108   | 717   | 705   | 567   |
| 3     | 922   | 757      | 311   | 143   | 200  | 114  | 582   | 231  | 109   | 841   | 702   | 576   |
| 4     | 967   | 764      | 286   | 143   | 187  | 114  | 577   | 230  | 109   | 849   | 662   | 577   |
| 5     | 908   | 765      | 286   | 143   | 171  | 114  | 574   | 228  | 108   | 834   | 628   | 547   |
| 6     | 797   | 763      | 287   | 143   | 171  | 114  | 572   | 180  | 108   | 801   | 633   | 491   |
| 7     | 363   | 762      | 287   | 124   | 171  | 113  | 572   | 153  | 109   | 787   | 634   | 477   |
| 8     | 329   | 760      | 286   | 115   | 170  | 113  | 603   | 153  | 109   | 775   | 633   | 477   |
| 9     | 766   | 758      | 286   | 115   | 171  | 112  | 618   | 153  | 110   | 770   | 629   | 478   |
| 10    | 761   | 758      | 258   | 115   | 170  | 111  | 614   | 153  | 79    | 769   | 626   | 480   |
| 11    | 758   | 756      | 243   | 117   | 158  | 100  | 611   | 152  | 38    | 770   | 628   | 480   |
| 12    | 755   | 753      | 244   | 117   | 143  | 85   | 606   | 152  | 38    | 768   | 629   | 509   |
| 13    | 753   | 752      | 243   | 117   | 143  | 85   | 606   | 126  | 38    | 767   | 630   | 532   |
| 14    | 751   | 751      | 245   | 153   | 142  | 85   | 605   | 101  | 38    | 768   | 584   | 531   |
| 15    | 748   | 749      | 245   | 175   | 143  | 86   | 470   | 101  | 39    | 767   | 537   | 529   |
| 16    | 745   | 748      | 245   | 174   | 142  | 86   | 374   | 100  | 39    | 766   | 533   | 545   |
| 17    | 742   | 748      | 220   | 174   | 142  | 87   | 374   | 100  | 62    | 765   | 466   | 556   |
| 18    | 743   | 343      | 202   | 174   | 142  | 119  | 373   | 100  | 79    | 765   | 440   | 557   |
| 19    | 743   | .00      | 202   | 174   | 125  | 143  | 372   | 100  | 79    | 766   | 221   | 557   |
| 20    | 746   | 270      | 202   | 175   | 115  | 143  | 370   | 85   | 81    | 763   | 261   | 503   |
| 21    | 748   | 478      | 202   | 200   | 115  | 145  | 371   | 75   | 80    | 760   | 461   | 479   |
| 22    | 749   | 480      | 201   | 231   | 115  | 147  | 326   | 76   | 81    | 768   | 497   | 484   |
| 23    | 750   | 484      | 201   | 231   | 115  | 146  | 291   | 76   | 272   | 769   | 530   | 486   |
| 24    | 751   | 484      | 163   | 231   | 115  | 146  | 290   | 76   | 598   | 767   | 531   | 489   |
| 25    | 754   | 484      | 144   | 230   | 116  | 191  | 288   | 76   | 595   | 764   | 507   | 489   |
| 26    | 753   | 403      | 145   | 230   | 115  | 257  | 288   | 76   | 594   | 732   | 477   | 490   |
| 27    | 759   | 343      | 144   | 231   | 114  | 258  | 287   | 80   | 595   | 568   | 478   | 491   |
| 28    | 764   | 343      | 144   | 213   | 114  | 258  | 287   | 100  | 597   | 510   | 509   | 530   |
| 29    | 765   | 343      | 144   | 201   | ---  | 258  | 254   | 109  | 599   | 514   | 530   | 543   |
| 30    | 764   | 343      | 144   | 201   | ---  | 257  | 233   | 108  | 601   | 526   | 527   | 542   |
| 31    | 757   | ---      | 143   | 200   | ---  | 256  | ---   | 108  | ---   | 593   | 526   | ---   |
| TOTAL | 22917 | 17657.00 | 7028  | 5276  | 4125 | 4474 | 13446 | 4023 | 6200  | 22726 | 17024 | 15518 |
| MEAN  | 739   | 589      | 227   | 170   | 147  | 144  | 448   | 130  | 207   | 733   | 549   | 517   |
| MAX   | 967   | 765      | 338   | 231   | 200  | 258  | 618   | 233  | 601   | 849   | 705   | 577   |
| MIN   | 329   | .00      | 143   | 115   | 114  | 85   | 233   | 75   | 38    | 510   | 221   | 477   |
| AC-FT | 45460 | 35020    | 13940 | 10460 | 8180 | 8870 | 26670 | 7980 | 12300 | 45080 | 33770 | 30780 |

CAL YR 1985 TOTAL 179092.00 MEAN 491 MAX 1610 MIN .00 AC-FT 355200  
WTR YR 1986 TOTAL 140414.00 MEAN 385 MAX 967 MIN .00 AC-FT 278500

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT       | NOV   | DEC       | JAN      | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------------|-----------|-------|-----------|----------|------|------|------|------|------|------|------|------|
| 1           | 9.94      | 10.03 | 9.94      | 9.70     | 9.73 | 9.58 | 9.74 | 9.22 | 8.74 | 9.49 | 9.54 | 9.71 |
| 2           | 9.89      | 10.04 | 9.94      | 9.70     | 9.71 | 9.58 | 9.71 | 9.19 | 8.76 | 9.47 | 9.53 | 9.70 |
| 3           | 9.88      | 10.03 | 9.96      | 9.70     | 9.70 | 9.54 | 9.67 | 9.17 | 8.77 | 9.44 | 9.53 | 9.70 |
| 4           | 9.89      | 10.08 | 9.94      | 9.68     | 9.67 | 9.51 | 9.64 | 9.16 | 8.77 | 9.44 | 9.55 | 9.72 |
| 5           | 9.93      | 10.09 | 9.94      | 9.68     | 9.65 | 9.51 | 9.62 | 9.12 | 8.74 | 9.47 | 9.55 | 9.76 |
| 6           | 9.97      | 10.06 | 9.96      | 9.69     | 9.64 | 9.50 | 9.60 | 9.10 | 8.72 | 9.51 | 9.55 | 9.78 |
| 7           | 10.03     | 10.05 | 9.95      | 9.67     | 9.64 | 9.47 | 9.59 | 9.09 | 8.74 | 9.53 | 9.54 | 9.81 |
| 8           | 10.05     | 10.04 | 9.92      | 9.73     | 9.62 | 9.46 | 9.56 | 9.07 | 8.77 | 9.46 | 9.53 | 9.81 |
| 9           | 10.03     | 10.03 | 9.91      | 9.76     | 9.63 | 9.41 | 9.54 | 9.05 | 8.81 | 9.43 | 9.51 | 9.81 |
| 10          | 10.01     | 10.03 | 9.90      | 9.80     | 9.60 | 9.47 | 9.53 | 9.05 | 8.82 | 9.42 | 9.49 | 9.82 |
| 11          | 9.99      | 10.02 | 9.88      | 9.86     | 9.59 | 9.59 | 9.50 | 9.03 | 8.82 | 9.43 | 9.53 | 9.80 |
| 12          | 9.98      | 10.00 | 9.87      | 9.88     | 9.62 | 9.58 | 9.47 | 8.99 | 8.88 | 9.42 | 9.53 | 9.80 |
| 13          | 9.97      | 10.00 | 9.85      | 9.88     | 9.63 | 9.57 | 9.49 | 8.97 | 8.96 | 9.42 | 9.55 | 9.79 |
| 14          | 9.96      | 9.99  | 9.87      | 9.86     | 9.60 | 9.58 | 9.50 | 8.96 | 8.96 | 9.42 | 9.59 | 9.77 |
| 15          | 9.93      | 9.98  | 9.89      | 9.85     | 9.58 | 9.59 | 9.48 | 8.94 | 8.99 | 9.42 | 9.58 | 9.76 |
| 16          | 9.92      | 9.97  | 9.87      | 9.84     | 9.57 | 9.63 | 9.47 | 8.92 | 9.05 | 9.41 | 9.60 | 9.76 |
| 17          | 9.91      | 9.96  | 9.87      | 9.82     | 9.55 | 9.65 | 9.46 | 8.89 | 9.13 | 9.40 | 9.65 | 9.76 |
| 18          | 9.91      | 9.97  | 9.86      | 9.82     | 9.60 | 9.65 | 9.45 | 8.86 | 9.13 | 9.40 | 9.69 | 9.77 |
| 19          | 9.93      | 10.00 | 9.85      | 9.81     | 9.63 | 9.62 | 9.43 | 8.84 | 9.19 | 9.42 | 9.71 | 9.77 |
| 20          | 9.95      | 9.97  | 9.84      | 9.82     | 9.62 | 9.61 | 9.41 | 8.82 | 9.37 | 9.41 | 9.71 | 9.78 |
| 21          | 9.97      | 9.94  | 9.82      | 9.82     | 9.62 | 9.73 | 9.39 | 8.83 | 9.36 | 9.40 | 9.74 | 9.82 |
| 22          | 9.97      | 9.96  | 9.81      | 9.81     | 9.61 | 9.80 | 9.40 | 8.88 | 9.36 | 9.45 | 9.77 | 9.85 |
| 23          | 9.97      | 10.01 | 9.79      | 9.80     | 9.59 | 9.79 | 9.40 | 8.92 | 9.36 | 9.47 | 9.77 | 9.86 |
| 24          | 9.99      | 10.01 | 9.77      | 9.81     | 9.60 | 9.77 | 9.37 | 8.91 | 9.35 | 9.46 | 9.78 | 9.89 |
| 25          | 10.00     | 10.00 | 9.78      | 9.79     | 9.61 | 9.73 | 9.35 | 8.89 | 9.35 | 9.44 | 9.78 | 9.90 |
| 26          | 9.99      | 9.99  | 9.80      | 9.77     | 9.59 | 9.76 | 9.33 | 8.87 | 9.35 | 9.48 | 9.78 | 9.90 |
| 27          | 10.07     | 9.98  | 9.76      | 9.79     | 9.53 | 9.80 | 9.31 | 8.84 | 9.37 | 9.57 | 9.76 | 9.90 |
| 28          | 10.12     | 9.97  | 9.75      | 9.80     | 9.51 | 9.82 | 9.29 | 8.82 | 9.40 | 9.58 | 9.76 | 9.89 |
| 29          | 10.11     | 9.96  | 9.75      | 9.75     | ---  | 9.80 | 9.27 | 8.80 | 9.44 | 9.59 | 9.76 | 9.88 |
| 30          | 10.09     | 9.94  | 9.75      | 9.74     | ---  | 9.78 | 9.25 | 8.77 | 9.49 | 9.57 | 9.74 | 9.88 |
| 31          | 10.04     | ---   | 9.72      | 9.73     | ---  | 9.77 | ---  | 8.75 | ---  | 9.55 | 9.72 | ---  |
| MEAN        | 9.98      | 10.00 | 9.86      | 9.78     | 9.62 | 9.63 | 9.47 | 8.96 | 9.07 | 9.46 | 9.64 | 9.81 |
| MAX         | 10.12     | 10.09 | 9.96      | 9.88     | 9.73 | 9.82 | 9.74 | 9.22 | 9.49 | 9.59 | 9.78 | 9.90 |
| MIN         | 9.88      | 9.94  | 9.72      | 9.67     | 9.51 | 9.41 | 9.25 | 8.75 | 8.72 | 9.40 | 9.49 | 9.70 |
| CAL YR 1985 | MEAN 8.44 |       | MAX 10.12 | MIN 5.62 |      |      |      |      |      |      |      |      |
| WTR YR 1986 | MEAN 9.61 |       | MAX 10.12 | MIN 8.72 |      |      |      |      |      |      |      |      |

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

201

254100080402400 L-67 EXTENDED CANAL WEST NEAR FLORIDA CITY, FL

LOCATION.--Lat 25°41'00", long 80°40'24", between sec.24, T.55 S., R.36 E., and sec.6, T.55 S., R.37 E., in-between hiatus of unsurveyed area, Dade County, Hydrologic Unit 03090202, 5.8 mi south of Highway 41 on the L-67 extension levee and 11.8 mi west of Krome Avenue.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1983 to present year (gage heights).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 7.99 ft Oct. 1, 2, 1984, minimum, 4.55 ft May 10, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 7.76 ft July 27; minimum, 6.08 ft June 6, 7.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP   |
|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 1    | 7.24 | 7.27 | 6.93 | 6.54 | 6.48 | 6.36 | 6.61 | 6.50 | 6.10 | 6.83 | 7.58 | 7.37  |
| 2    | 7.24 | 7.25 | 6.91 | 6.53 | 6.48 | 6.34 | 6.61 | 6.49 | 6.15 | 6.83 | 7.57 | 7.36  |
| 3    | 7.26 | 7.24 | 6.88 | 6.53 | 6.47 | 6.33 | 6.61 | 6.48 | 6.20 | 6.86 | 7.57 | 7.35  |
| 4    | 7.34 | 7.27 | 6.87 | 6.52 | 6.47 | 6.32 | 6.62 | 6.48 | 6.17 | 6.89 | 7.58 | 7.39  |
| 5    | 7.45 | 7.24 | 6.88 | 6.50 | 6.46 | 6.30 | 6.62 | 6.49 | 6.13 | 6.92 | 7.58 | 7.40  |
| 6    | 7.45 | 7.23 | 6.86 | 6.48 | 6.46 | 6.28 | 6.63 | 6.48 | 6.10 | 6.97 | 7.57 | 7.39  |
| 7    | 7.41 | 7.22 | 6.83 | 6.49 | 6.46 | 6.27 | 6.65 | 6.47 | 6.10 | 7.01 | 7.55 | 7.42  |
| 8    | 7.36 | 7.20 | 6.81 | 6.53 | 6.47 | 6.26 | 6.66 | 6.46 | 6.21 | 7.04 | 7.52 | 7.41  |
| 9    | 7.33 | 7.19 | 6.79 | 6.61 | 6.47 | 6.24 | 6.67 | 6.44 | 6.28 | 7.09 | 7.48 | 7.40  |
| 10   | 7.29 | 7.17 | 6.78 | 6.72 | 6.46 | 6.33 | 6.67 | 6.44 | 6.27 | 7.16 | 7.45 | 7.38  |
| 11   | 7.27 | 7.16 | 6.76 | 6.76 | 6.46 | 6.53 | 6.67 | 6.42 | 6.29 | 7.23 | 7.47 | 7.36  |
| 12   | 7.28 | 7.15 | 6.74 | 6.74 | 6.45 | 6.53 | 6.68 | 6.40 | 6.54 | 7.29 | 7.52 | 7.34  |
| 13   | 7.27 | 7.14 | 6.72 | 6.73 | 6.44 | 6.57 | 6.75 | 6.39 | 6.71 | 7.33 | 7.51 | 7.31  |
| 14   | 7.25 | 7.12 | 6.70 | 6.69 | 6.43 | 6.61 | 6.77 | 6.39 | 6.70 | 7.37 | 7.49 | 7.29  |
| 15   | 7.23 | 7.11 | 6.67 | 6.67 | 6.42 | 6.59 | 6.77 | 6.38 | 6.72 | 7.40 | 7.48 | 7.27  |
| 16   | 7.21 | 7.09 | 6.66 | 6.65 | 6.41 | 6.58 | 6.75 | 6.39 | 6.81 | 7.42 | 7.48 | 7.25  |
| 17   | 7.20 | 7.08 | 6.66 | 6.64 | 6.41 | 6.56 | 6.73 | 6.37 | 6.85 | 7.43 | 7.51 | e7.27 |
| 18   | 7.20 | 7.06 | 6.65 | 6.63 | 6.50 | 6.54 | 6.71 | 6.36 | 6.81 | 7.44 | 7.55 | e7.25 |
| 19   | 7.21 | 7.07 | 6.63 | 6.62 | 6.56 | 6.51 | 6.68 | 6.34 | 6.86 | 7.45 | 7.52 | e7.24 |
| 20   | 7.25 | 7.14 | 6.61 | 6.61 | 6.54 | 6.49 | 6.67 | 6.33 | 7.02 | 7.50 | 7.51 | e7.22 |
| 21   | 7.25 | 7.13 | 6.60 | 6.59 | 6.52 | 6.58 | 6.65 | 6.32 | 7.04 | 7.55 | 7.49 | e7.20 |
| 22   | 7.24 | 7.12 | 6.59 | 6.58 | 6.50 | 6.60 | 6.64 | 6.32 | 6.99 | 7.54 | 7.48 | e7.19 |
| 23   | 7.24 | 7.11 | 6.59 | 6.57 | 6.48 | 6.57 | 6.61 | 6.34 | 6.96 | 7.57 | 7.46 | e7.17 |
| 24   | 7.23 | 7.09 | 6.59 | 6.56 | 6.46 | 6.56 | 6.59 | 6.34 | 6.94 | 7.56 | 7.44 | e7.15 |
| 25   | 7.23 | 7.07 | 6.60 | 6.56 | 6.44 | 6.55 | 6.58 | 6.32 | 6.89 | 7.56 | 7.42 | e7.13 |
| 26   | 7.21 | 7.05 | 6.58 | 6.55 | 6.40 | 6.64 | 6.56 | 6.29 | 6.84 | 7.63 | 7.41 | e7.11 |
| 27   | 7.24 | 7.02 | 6.56 | 6.54 | 6.39 | 6.70 | 6.56 | 6.26 | 6.84 | 7.74 | 7.39 | e7.09 |
| 28   | 7.30 | 7.00 | 6.56 | 6.52 | 6.38 | 6.69 | 6.54 | 6.23 | 6.85 | 7.69 | 7.41 | e7.08 |
| 29   | 7.30 | 6.98 | 6.57 | 6.51 | ---  | 6.66 | 6.53 | 6.20 | 6.83 | 7.66 | 7.41 | e7.06 |
| 30   | 7.30 | 6.95 | 6.56 | 6.50 | ---  | 6.64 | 6.52 | 6.16 | 6.81 | 7.63 | 7.39 | e7.04 |
| 31   | 7.28 | ---  | 6.55 | 6.49 | ---  | 6.63 | ---  | 6.12 | ---  | 7.60 | 7.38 | ---   |
| MEAN | 7.28 | 7.13 | 6.70 | 6.59 | 6.46 | 6.50 | 6.64 | 6.37 | 6.60 | 7.33 | 7.49 | 7.26  |
| MAX  | 7.45 | 7.27 | 6.93 | 6.76 | 6.56 | 6.70 | 6.77 | 6.50 | 7.04 | 7.74 | 7.58 | 7.42  |
| MIN  | 7.20 | 6.95 | 6.55 | 6.48 | 6.38 | 6.24 | 6.52 | 6.12 | 6.10 | 6.83 | 7.38 | 7.04  |

CAL YR 1985 MEAN 6.44 MAX 7.45 MIN 4.57  
WTR YR 1986 MEAN 6.86 MAX 7.74 MIN 6.10

e Estimated

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

254100080402200 NORTHEAST SHARK RIVER SLOUGH EAST OF L 67 EXTENSION NEAR RICHMOND HEIGHTS, FL

LOCATION.--Lat 25°41'00", long 80°40'22", in NW¼ sec.6, T.55 S., R.37 E., Dade County, Hydrologic Unit 03090202, 5.8 mi south of U.S. Highway 41 on the L-67 extension levee and 11.8 mi west of Krome Avenue.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1984 to current year (gage heights).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 7.27 ft Aug. 21, 1984; minimum, 4.86 ft May 9, 10, 11, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 7.23 ft July 27; minimum, 6.01 ft May 31.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB   | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|-------|------|------|------|------|------|------|------|
| 1    | 6.93 | 7.02 | 6.90 | 6.67 | 6.56  | 6.43 | 6.66 | 6.42 | 6.01 | 6.92 | 7.07 | 7.08 |
| 2    | 6.89 | 7.01 | 6.88 | 6.66 | 6.56  | 6.42 | 6.64 | 6.41 | 6.08 | 6.90 | 7.06 | 7.06 |
| 3    | 6.87 | 7.01 | 6.87 | 6.66 | 6.55  | 6.41 | 6.62 | 6.39 | 6.20 | 6.92 | 7.06 | 7.06 |
| 4    | 6.91 | 7.03 | 6.87 | 6.65 | 6.54  | 6.40 | 6.60 | 6.38 | 6.17 | 6.94 | 7.05 | 7.06 |
| 5    | 7.02 | 7.01 | 6.89 | 6.64 | 6.53  | 6.39 | 6.58 | 6.38 | 6.13 | 6.94 | 7.05 | 7.06 |
| 6    | 7.02 | 7.00 | 6.88 | 6.63 | 6.52  | 6.37 | 6.57 | 6.38 | 6.09 | 7.00 | 7.05 | 7.05 |
| 7    | 7.05 | 6.99 | 6.86 | 6.61 | 6.50  | 6.36 | 6.56 | 6.38 | 6.07 | 7.02 | 7.04 | 7.05 |
| 8    | 7.05 | 6.98 | 6.84 | 6.64 | e6.50 | 6.35 | 6.55 | 6.38 | 6.15 | 7.02 | 7.03 | 7.05 |
| 9    | 7.03 | 6.97 | 6.83 | 6.75 | e6.50 | 6.33 | 6.54 | 6.36 | 6.29 | 7.02 | 7.02 | 7.05 |
| 10   | 7.01 | 6.97 | 6.82 | 6.86 | e6.49 | 6.40 | 6.53 | 6.34 | 6.34 | 7.02 | 7.01 | 7.05 |
| 11   | 6.99 | 6.96 | 6.81 | 6.88 | 6.49  | 6.64 | 6.51 | 6.34 | 6.30 | 7.00 | 7.05 | 7.05 |
| 12   | 6.99 | 6.96 | 6.80 | 6.84 | 6.48  | 6.60 | 6.50 | 6.32 | 6.50 | 7.00 | 7.09 | 7.05 |
| 13   | 6.98 | 6.96 | 6.80 | 6.81 | 6.48  | 6.59 | 6.58 | 6.31 | 6.87 | 7.00 | 7.08 | 7.06 |
| 14   | 6.97 | 6.96 | 6.80 | 6.77 | 6.46  | 6.61 | 6.62 | 6.29 | 6.85 | 7.00 | 7.08 | 7.06 |
| 15   | 6.96 | 6.95 | 6.78 | 6.75 | 6.45  | 6.58 | 6.60 | 6.29 | 6.83 | 6.98 | 7.08 | 7.06 |
| 16   | 6.95 | 6.95 | 6.76 | 6.74 | 6.44  | 6.57 | 6.59 | 6.29 | 6.86 | 6.96 | 7.08 | 7.08 |
| 17   | 6.94 | 6.95 | 6.76 | 6.72 | 6.43  | 6.56 | 6.58 | 6.27 | 6.89 | 6.94 | 7.13 | 7.08 |
| 18   | 6.94 | 6.94 | 6.75 | 6.72 | 6.59  | 6.54 | 6.57 | 6.26 | 6.84 | 6.93 | 7.20 | 7.06 |
| 19   | 6.93 | 6.97 | 6.74 | 6.71 | 6.68  | 6.52 | 6.56 | 6.23 | 6.91 | 6.93 | 7.18 | 7.05 |
| 20   | 6.97 | 7.05 | 6.73 | 6.69 | 6.63  | 6.50 | 6.55 | 6.22 | 7.00 | 6.97 | 7.17 | 7.04 |
| 21   | 6.96 | 7.02 | 6.72 | 6.67 | 6.59  | 6.64 | 6.55 | 6.20 | 6.96 | 7.01 | 7.16 | 7.06 |
| 22   | 6.95 | 7.00 | 6.71 | 6.66 | 6.56  | 6.67 | 6.54 | 6.19 | 6.93 | 6.98 | 7.15 | 7.06 |
| 23   | 6.95 | 6.99 | 6.70 | 6.66 | 6.54  | 6.62 | 6.52 | 6.19 | 6.93 | 6.97 | 7.14 | 7.06 |
| 24   | 6.94 | 6.98 | 6.70 | 6.65 | 6.51  | 6.59 | 6.51 | 6.18 | 6.93 | 6.98 | 7.12 | 7.06 |
| 25   | 6.94 | 6.97 | 6.72 | 6.64 | 6.49  | 6.56 | 6.50 | 6.17 | 6.88 | 7.01 | 7.11 | 7.06 |
| 26   | 6.93 | 6.96 | 6.71 | 6.63 | 6.47  | 6.71 | 6.49 | 6.15 | 6.84 | 7.08 | 7.11 | 7.06 |
| 27   | 6.99 | 6.94 | 6.69 | 6.62 | 6.46  | 6.82 | 6.47 | 6.12 | 6.88 | 7.21 | 7.10 | 7.05 |
| 28   | 7.05 | 6.93 | 6.69 | 6.60 | 6.44  | 6.79 | 6.46 | 6.10 | 6.96 | 7.17 | 7.12 | 7.05 |
| 29   | 7.06 | 6.92 | 6.72 | 6.59 | ---   | 6.74 | 6.45 | 6.08 | 6.94 | 7.14 | 7.13 | 7.03 |
| 30   | 7.06 | 6.91 | 6.70 | 6.58 | ---   | 6.71 | 6.43 | 6.05 | 6.92 | 7.12 | 7.10 | 7.03 |
| 31   | 7.04 | ---  | 6.69 | 6.57 | ---   | 6.69 | ---  | 6.03 | ---  | 7.09 | 7.09 | ---  |
| MEAN | 6.98 | 6.98 | 6.78 | 6.69 | 6.52  | 6.55 | 6.55 | 6.26 | 6.62 | 7.01 | 7.09 | 7.06 |
| MAX  | 7.06 | 7.05 | 6.90 | 6.88 | 6.68  | 6.82 | 6.66 | 6.42 | 7.00 | 7.21 | 7.20 | 7.08 |
| MIN  | 6.87 | 6.91 | 6.69 | 6.57 | 6.43  | 6.33 | 6.43 | 6.03 | 6.01 | 6.90 | 7.01 | 7.03 |

CAL YR 1985 MEAN 6.36 MAX 7.19 MIN 4.86

WTR YR 1986 MEAN 6.76 MAX 7.21 MIN 6.01

e Estimated

## 02289060 TAMiami CANAL OUTLETS, LEVEE 30 TO LEVEE 67A, NEAR MIAMI, FL

LOCATION.--Lat 25°45'40", long 80°33'40", in SE¼ sec.6, T.54 S., R.38 E., Dade County, Hydrologic Unit 03090202, on south bank, 50 ft west of bridge 53 on U.S. Highway 41, and 22.8 mi west of Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1939 to September 1963 (monthly discharge), October 1963 to current year. Prior to October 1963, published as Tamiami Canal at bridge 45, near Miami (auxiliary). Records prior to October 1962 are available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Aug. 27, 1942, nonrecording gage at datum 0.80 ft lower; Aug. 27, 1942 to Feb. 21, 1952, nonrecording gage at present datum; and Feb. 21, 1952 to Aug. 7, 1969 water-stage recorder at same datum all at site 4 mi to the west.

REMARKS.--Records poor. Figures of daily discharge consist of seepage through levee 29 from Conservation Area 3B and discharges from S-333 distributed along L-29 from Conservation Area 3A as represented by flow through all the outlets of Tamiami Canal from levee 30 to levee 67A. Prior to October 1963, daily discharge for this portion of the Canal was published as part of the total daily discharge of station, Tamiami Canal outlets, Miami to Monroe (station 02289000).

AVERAGE DISCHARGE.--46 years, 218 ft<sup>3</sup>/s, 157,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,100 ft<sup>3</sup>/s Sept. 17, 1985; maximum gage height, 9.76 ft Nov. 1, 1960; maximum daily reverse flow, 7.0 ft<sup>3</sup>/s estimated, May 11, 12, 1964; minimum gage height, 1.66 ft May 13, 14, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,000 ft<sup>3</sup>/s July 26; maximum gage height, 7.64 ft Aug. 16; minimum daily discharge, 77 ft<sup>3</sup>/s June 11; minimum gage height, 6.59 ft June 11, 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB  | MAR  | APR   | MAY  | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|------|------|-------|------|-------|-------|-------|-------|
| 1     | 291   | 731   | 347   | 175   | 219  | 119  | 259   | 233  | 100   | 660   | 648   | 626   |
| 2     | 528   | 726   | 362   | 176   | 219  | 112  | 370   | 230  | 100   | 719   | 687   | 653   |
| 3     | 696   | 713   | 323   | 174   | 216  | 109  | 379   | 213  | 96    | 874   | 728   | 715   |
| 4     | 900   | 756   | 301   | 172   | 208  | 112  | 380   | e212 | 92    | 941   | 763   | 755   |
| 5     | 946   | 716   | 324   | 172   | 196  | 108  | 382   | e209 | 90    | 984   | 695   | 864   |
| 6     | 757   | 713   | 316   | 166   | 198  | 106  | 381   | 183  | 90    | 932   | 614   | 768   |
| 7     | 430   | 720   | 305   | 170   | 195  | 99   | 394   | 154  | 90    | 868   | 572   | 736   |
| 8     | 271   | 719   | 312   | 171   | 194  | 95   | 446   | 154  | 95    | 857   | 541   | 718   |
| 9     | 600   | 725   | 297   | 193   | 187  | 92   | 494   | 151  | 92    | 817   | 518   | 682   |
| 10    | 645   | 722   | 281   | 225   | 184  | 134  | 491   | 147  | 88    | 814   | 487   | 631   |
| 11    | 651   | 726   | 256   | 237   | 182  | 167  | 495   | 144  | 77    | 823   | 605   | 588   |
| 12    | 657   | 725   | 256   | 211   | 171  | 130  | 500   | 141  | 87    | 829   | 599   | 596   |
| 13    | 666   | 723   | 252   | 204   | 165  | 126  | 580   | 127  | 99    | 819   | 612   | 630   |
| 14    | 665   | 726   | 254   | 208   | 162  | 129  | 555   | 115  | 94    | 819   | 619   | 596   |
| 15    | 664   | 714   | 249   | 217   | 159  | 119  | 425   | 111  | 90    | 794   | 507   | 573   |
| 16    | 650   | 691   | 249   | 213   | 155  | 122  | 286   | 105  | 91    | 781   | 645   | 580   |
| 17    | 636   | 679   | 259   | 211   | 152  | 125  | 260   | 102  | 103   | 752   | 725   | 610   |
| 18    | 620   | 539   | 236   | 220   | 186  | 129  | 244   | 99   | 112   | 776   | 625   | 609   |
| 19    | 671   | 288   | 234   | 219   | 180  | 138  | 225   | 94   | 131   | 852   | 483   | 602   |
| 20    | 695   | 427   | 225   | 211   | 168  | 137  | 229   | 91   | 186   | 873   | 437   | 615   |
| 21    | 684   | 637   | 220   | 218   | 164  | 161  | 227   | 91   | 189   | 899   | 591   | 588   |
| 22    | 692   | 661   | 216   | 244   | 158  | 155  | 213   | 96   | 180   | 911   | 638   | 509   |
| 23    | 645   | 665   | 217   | 258   | 151  | 140  | 209   | 94   | 211   | 982   | 682   | 483   |
| 24    | 649   | 649   | 202   | 256   | 147  | 135  | 224   | 92   | 346   | 979   | 691   | 498   |
| 25    | 643   | 625   | 193   | 257   | 139  | 151  | 234   | 91   | 370   | 992   | 733   | 504   |
| 26    | 636   | 509   | 182   | 261   | 133  | 219  | 221   | 88   | 383   | 1000  | 697   | 492   |
| 27    | 786   | 381   | 178   | 259   | 128  | 252  | 216   | 88   | 402   | 833   | 635   | 467   |
| 28    | 823   | 374   | 180   | 244   | 122  | 262  | 210   | 97   | 423   | 675   | 644   | 482   |
| 29    | 790   | 364   | 193   | 232   | ---  | 252  | 203   | 101  | 484   | 611   | 675   | 523   |
| 30    | 761   | 367   | 184   | 223   | ---  | 276  | 237   | 99   | 577   | 584   | 649   | 547   |
| 31    | 740   | ---   | 179   | 216   | ---  | 278  | ---   | 99   | ---   | 622   | 635   | ---   |
| TOTAL | 20488 | 18711 | 7782  | 6613  | 4838 | 4689 | 9969  | 4051 | 5568  | 25672 | 19380 | 18240 |
| MEAN  | 661   | 624   | 251   | 213   | 173  | 151  | 332   | 131  | 186   | 828   | 625   | 608   |
| MAX   | 946   | 756   | 362   | 261   | 219  | 278  | 580   | 233  | 577   | 1000  | 763   | 864   |
| MIN   | 271   | 288   | 178   | 166   | 122  | 92   | 203   | 88   | 77    | 584   | 437   | 467   |
| AC-FT | 40640 | 37110 | 15440 | 13120 | 9600 | 9300 | 19770 | 8040 | 11040 | 50920 | 38440 | 36180 |

CAL YR 1985 TOTAL 89486.18 MEAN 245 MAX 1100 MIN .00 AC-FT 177500  
WTR YR 1986 TOTAL 146001.00 MEAN 400 MAX 1000 MIN 77 AC-FT 289600

e Estimated



## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02289060 TAMiami CANAL OUTLETS, LEVEE 30 TO LEVEE 67A, NEAR MIAMI, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 7.12 | 7.52 | 7.18 | 6.90 | 6.92 | 6.76 | 7.11 | 6.96 | 6.71 | 7.34 | 7.49 | 7.48 |
| 2    | 7.41 | 7.52 | 7.19 | 6.91 | 6.92 | 6.74 | 7.20 | 6.96 | 6.71 | 7.37 | 7.53 | 7.48 |
| 3    | 7.48 | 7.52 | 7.16 | 6.90 | 6.92 | 6.75 | 7.21 | 6.94 | 6.70 | 7.45 | 7.54 | 7.51 |
| 4    | 7.54 | 7.53 | 7.14 | 6.90 | 6.91 | 6.75 | 7.21 | 6.94 | 6.69 | 7.48 | 7.55 | 7.52 |
| 5    | 7.55 | 7.52 | 7.15 | 6.90 | 6.89 | 6.75 | 7.21 | 6.94 | 6.68 | 7.50 | 7.53 | 7.55 |
| 6    | 7.50 | 7.51 | 7.14 | 6.89 | 6.89 | 6.75 | 7.21 | 6.90 | 6.68 | 7.51 | 7.51 | 7.53 |
| 7    | 7.33 | 7.51 | 7.12 | 6.90 | 6.88 | 6.74 | 7.22 | 6.86 | 6.68 | 7.49 | 7.50 | 7.53 |
| 8    | 7.23 | 7.51 | 7.12 | 6.90 | 6.88 | 6.74 | 7.24 | 6.86 | 6.69 | 7.49 | 7.48 | 7.54 |
| 9    | 7.45 | 7.51 | 7.11 | 6.93 | 6.87 | 6.73 | 7.26 | 6.85 | 6.69 | 7.49 | 7.48 | 7.53 |
| 10   | 7.46 | 7.51 | 7.09 | 6.96 | 6.87 | 6.80 | 7.26 | 6.84 | 6.67 | 7.49 | 7.47 | 7.51 |
| 11   | 7.47 | 7.51 | 7.07 | 6.97 | 6.85 | 6.87 | 7.26 | 6.84 | 6.61 | 7.49 | 7.52 | 7.49 |
| 12   | 7.47 | 7.51 | 7.06 | 6.95 | 6.84 | 6.82 | 7.27 | 6.83 | 6.66 | 7.49 | 7.52 | 7.50 |
| 13   | 7.47 | 7.51 | 7.05 | 6.94 | 6.83 | 6.82 | 7.30 | 6.81 | 6.77 | 7.49 | 7.53 | 7.51 |
| 14   | 7.47 | 7.51 | 7.05 | 6.95 | 6.83 | 6.82 | 7.29 | 6.79 | 6.75 | 7.49 | 7.53 | 7.50 |
| 15   | 7.47 | 7.51 | 7.03 | 6.96 | 6.82 | 6.81 | 7.23 | 6.78 | 6.74 | 7.49 | 7.49 | 7.49 |
| 16   | 7.46 | 7.50 | 7.03 | 6.95 | 6.81 | 6.81 | 7.15 | 6.77 | 6.74 | 7.49 | 7.53 | 7.49 |
| 17   | 7.46 | 7.49 | 7.03 | 6.95 | 6.81 | 6.82 | 7.13 | 6.76 | 6.77 | 7.48 | 7.55 | 7.50 |
| 18   | 7.46 | 7.41 | 7.01 | 6.95 | 6.86 | 6.82 | 7.12 | 6.75 | 6.79 | 7.48 | 7.52 | 7.50 |
| 19   | 7.48 | 7.17 | 7.00 | 6.95 | 6.85 | 6.84 | 7.10 | 6.73 | 6.82 | 7.51 | 7.44 | 7.50 |
| 20   | 7.49 | 7.24 | 6.99 | 6.94 | 6.83 | 6.84 | 7.11 | 6.72 | 6.91 | 7.51 | 7.40 | 7.51 |
| 21   | 7.49 | 7.34 | 6.99 | 6.95 | 6.82 | 6.87 | 7.11 | 6.71 | 6.91 | 7.52 | 7.46 | 7.52 |
| 22   | 7.49 | 7.35 | 6.98 | 6.97 | 6.81 | 6.86 | 7.09 | 6.73 | 6.90 | 7.52 | 7.48 | 7.49 |
| 23   | 7.48 | 7.35 | 6.98 | 6.97 | 6.80 | 6.85 | 7.05 | 6.73 | 6.98 | 7.54 | 7.50 | 7.48 |
| 24   | 7.48 | 7.34 | 6.96 | 6.97 | 6.79 | 6.84 | 7.04 | 6.71 | 7.20 | 7.54 | 7.50 | 7.49 |
| 25   | 7.48 | 7.34 | 6.94 | 6.97 | 6.78 | 6.87 | 7.04 | 6.70 | 7.21 | 7.54 | 7.51 | 7.49 |
| 26   | 7.48 | 7.29 | 6.92 | 6.97 | 6.77 | 6.96 | 7.03 | 6.69 | 7.22 | 7.55 | 7.50 | 7.48 |
| 27   | 7.53 | 7.23 | 6.92 | 6.97 | 6.76 | 6.98 | 7.03 | 6.69 | 7.23 | 7.53 | 7.48 | 7.47 |
| 28   | 7.55 | 7.22 | 6.92 | 6.95 | 6.76 | 6.99 | 7.02 | 6.71 | 7.24 | 7.48 | 7.48 | 7.48 |
| 29   | 7.54 | 7.21 | 6.93 | 6.94 | ---  | 6.99 | 7.00 | 6.72 | 7.27 | 7.46 | 7.49 | 7.50 |
| 30   | 7.53 | 7.20 | 6.92 | 6.93 | ---  | 7.00 | 6.97 | 6.72 | 7.31 | 7.45 | 7.48 | 7.51 |
| 31   | 7.52 | ---  | 6.91 | 6.93 | ---  | 7.00 | ---  | 6.71 | ---  | 7.46 | 7.48 | ---  |
| MEAN | 7.46 | 7.41 | 7.04 | 6.94 | 6.84 | 6.84 | 7.15 | 6.80 | 6.86 | 7.49 | 7.50 | 7.50 |
| MAX  | 7.55 | 7.53 | 7.19 | 6.97 | 6.92 | 7.00 | 7.30 | 6.96 | 7.31 | 7.55 | 7.55 | 7.55 |
| MIN  | 7.12 | 7.17 | 6.91 | 6.89 | 6.76 | 6.73 | 6.97 | 6.69 | 6.61 | 7.34 | 7.40 | 7.47 |

CAL YR 1985 MEAN 6.51 MAX 7.56 MIN 4.42  
WTR YR 1986 MEAN 7.15 MAX 7.55 MIN 6.61

## 02289500 TAMiami CANAL NEAR CORAL GABLES, FL

LOCATION.--Lat 25°45'43", long 80°19'42", in SW¼ sec.3, T.54 S., R.40 E., Dade County, Hydrologic Unit 03090202, on upstream side of footbridge, 25 ft from south bank, 0.5 mi upstream from Coral Gables, 2.5 mi west of Coral Gables, 3.5 mi downstream from Snapper Creek Canal, and 6.2 mi upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1940 to June 1943, October 1959 to current year. Records of gage height prior to October 1960 are available in files of the Geological Survey.

GAGE.--Water-stage recorder and electromagnetic velocity meter recorder. Datum of gage is National Geodetic Vertical Datum of 1929. January 1940 to June 1943, nonrecording gage at same site at datum 0.22 ft lower.

REMARKS.--Records poor. The flow is slightly affected by tide and is regulated by control structure at Dade-Broward Levee, 7.5 mi upstream and at salinity-control structure S-25, 1.2 mi downstream. The canal is blocked by Levee 30, 10.5 mi upstream. Flow is diverted to and from Snapper Creek Canal, 3.5 mi upstream. Discharge computed from continuous velocity record obtained from recording electromagnetic velocity meter.

COOPERATION.--Records of salinity-control structure operation provided by South Florida Water Management District.

AVERAGE DISCHARGE.--26 years (water years 1960-83, 1985-86), 142 ft<sup>3</sup>/s 102,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 675 ft<sup>3</sup>/s Aug. 22, 1981; maximum gage height, 6.38 ft Aug. 18, 1981; no flow May 25, 26, 1985; maximum daily reverse flow, 28 ft<sup>3</sup>/s May 4, 5, 6, 1975; minimum gage height, 1.08 ft May 31, 1962.

EXTREMES FOR OUTSIDE PERIOD OF RECORD.--Maximum stage known, 8.49 ft Oct. 12, 1947, present datum, from non recording gage reading.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 364 ft<sup>3</sup>/s May 22; maximum gage height, 4.22 ft May 21; minimum daily discharge, 17 ft<sup>3</sup>/s Nov. 19; minimum gage height, 2.41 ft Nov. 18, 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN   | FEB  | MAR   | APR  | MAY  | JUN   | JUL  | AUG  | SEP  |
|-------|------|------|------|-------|------|-------|------|------|-------|------|------|------|
| 1     | 143  | 93   | e140 | 130   | 144  | 137   | 214  | 69   | 101   | e172 | e125 | 104  |
| 2     | 133  | 75   | e136 | 131   | 139  | 139   | 191  | 77   | 107   | e183 | e152 | 150  |
| 3     | 119  | 97   | e137 | 133   | 136  | 118   | 158  | 75   | 115   | e198 | e145 | 121  |
| 4     | 149  | 90   | 124  | 126   | 124  | 103   | 139  | 72   | 102   | e224 | e144 | 133  |
| 5     | 109  | 83   | 78   | 131   | 117  | 97    | 121  | 69   | 69    | e202 | e144 | 120  |
| 6     | e100 | 78   | 86   | 118   | 116  | 93    | 127  | 78   | 68    | e194 | 123  | 119  |
| 7     | e112 | 70   | 60   | 122   | 140  | 89    | 155  | 80   | 76    | e209 | 120  | 155  |
| 8     | e110 | 66   | 50   | e181  | 213  | 87    | 134  | 85   | 53    | e204 | 87   | 150  |
| 9     | e 98 | 60   | 47   | e314  | 198  | e 84  | 145  | 86   | 118   | e189 | 113  | 153  |
| 10    | e102 | 59   | 47   | e353  | 165  | e149  | 136  | 92   | e141  | e190 | 93   | 162  |
| 11    | 90   | 62   | 44   | 299   | 181  | e317  | 115  | 73   | e155  | e173 | 110  | 170  |
| 12    | 99   | 77   | 91   | e233  | 132  | e274  | 106  | 64   | e169  | e155 | 116  | 136  |
| 13    | 105  | 74   | 128  | e235  | 75   | e249  | 140  | 66   | e191  | e146 | 117  | 125  |
| 14    | 97   | 61   | 116  | 175   | 78   | e247  | 140  | 62   | 186   | e135 | 107  | 127  |
| 15    | e 81 | 52   | 103  | 192   | 82   | e220  | 133  | 57   | 176   | e105 | 96   | 139  |
| 16    | e 81 | 47   | 114  | 204   | 87   | e218  | 115  | 65   | e190  | e120 | 102  | 116  |
| 17    | 98   | 35   | 126  | 204   | 85   | e216  | 100  | 73   | e205  | e124 | 155  | 94   |
| 18    | 90   | 21   | 130  | 186   | 151  | e216  | 110  | 64   | e220  | e116 | 185  | 116  |
| 19    | 117  | 17   | 112  | 181   | 228  | e214  | 99   | 68   | e235  | e103 | 139  | 108  |
| 20    | 142  | 45   | 113  | 170   | 216  | e211  | 84   | 65   | e250  | e 94 | 131  | 107  |
| 21    | 131  | 70   | 129  | 158   | 185  | e190  | 103  | 92   | e260  | e117 | 145  | 138  |
| 22    | 115  | 77   | 125  | 147   | 170  | e185  | 102  | 364  | e270  | e109 | 103  | 180  |
| 23    | 114  | 144  | 116  | 142   | 163  | e164  | 76   | 275  | e280  | e111 | 86   | 166  |
| 24    | 105  | e148 | 107  | 139   | 158  | e137  | 75   | 213  | e290  | e101 | 85   | 165  |
| 25    | 105  | e148 | 111  | 131   | 156  | e 80  | 74   | 177  | e302  | e 93 | 85   | 138  |
| 26    | 97   | e148 | 102  | 120   | 136  | 176   | 72   | 160  | e256  | e121 | 86   | 169  |
| 27    | 93   | e150 | 92   | 120   | 108  | 348   | 69   | 148  | e255  | e175 | 86   | 154  |
| 28    | 110  | e147 | 111  | 108   | 106  | 337   | 72   | 136  | e228  | e150 | 87   | 158  |
| 29    | 109  | e146 | 140  | 101   | ---  | 284   | 72   | 128  | e226  | e173 | 56   | 142  |
| 30    | 119  | e140 | 132  | 118   | ---  | 256   | 72   | 83   | e220  | 157  | 115  | 135  |
| 31    | 102  | ---  | 131  | 150   | ---  | 230   | ---  | 91   | ---   | 142  | 74   | ---  |
| TOTAL | 3375 | 2580 | 3278 | 5252  | 3989 | 5865  | 3449 | 3307 | 5514  | 4685 | 3512 | 4150 |
| MEAN  | 109  | 86.0 | 106  | 169   | 142  | 189   | 115  | 107  | 184   | 151  | 113  | 138  |
| MAX   | 149  | 150  | 140  | 353   | 228  | 348   | 214  | 364  | 302   | 224  | 185  | 180  |
| MIN   | 81   | 17   | 44   | 101   | 75   | 80    | 69   | 57   | 53    | 93   | 56   | 94   |
| AC-FT | 6690 | 5120 | 6500 | 10420 | 7910 | 11630 | 6840 | 6560 | 10940 | 9290 | 6970 | 8230 |

CAL YR 1985 TOTAL 33685.10 MEAN 92.3 MAX 343 MIN .00 AC-FT 66810  
WTR YR 1986 TOTAL 48956.00 MEAN 134 MAX 364 MIN 17 AC-FT 97100

e Estimated

EVERGLADES AND SOUTHEASTERN COASTAL AREA  
02289500 TAMiami CANAL NEAR CORAL GABLES, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN   | FEB  | MAR  | APR   | MAY  | JUN   | JUL  | AUG   | SEP  |
|------|------|------|------|-------|------|------|-------|------|-------|------|-------|------|
| 1    | 2.83 | 2.81 | 2.75 | 2.77  | 2.71 | 2.78 | 3.06  | 2.63 | 2.75  | 3.01 | e2.97 | 2.98 |
| 2    | 2.85 | 2.85 | 2.74 | 2.77  | 2.68 | 2.71 | 3.03  | 2.59 | 2.74  | 3.05 | e2.96 | 2.92 |
| 3    | 2.83 | 2.80 | 2.81 | 2.77  | 2.67 | 2.71 | 2.99  | 2.56 | 2.72  | 3.16 | e2.95 | 2.94 |
| 4    | 2.75 | 2.81 | 2.87 | 2.73  | 2.67 | 2.73 | 2.94  | 2.58 | 2.70  | 3.10 | e2.94 | 2.93 |
| 5    | 2.78 | 2.81 | 2.96 | 2.81  | 2.66 | 2.73 | 2.91  | 2.67 | 2.71  | 3.06 | e2.95 | 2.92 |
| 6    | 2.78 | 2.79 | 2.97 | 2.82  | 2.66 | 2.71 | 2.92  | 2.68 | 2.74  | 3.03 | 2.86  | 2.97 |
| 7    | 2.98 | 2.82 | 2.96 | 2.85  | 2.84 | 2.70 | 2.84  | 2.65 | 2.73  | 3.00 | 2.84  | 3.04 |
| 8    | 2.84 | 2.82 | 2.94 | e2.82 | 3.07 | 2.68 | 2.86  | 2.64 | 3.08  | 3.06 | 2.88  | 3.02 |
| 9    | 2.87 | 2.84 | 2.94 | e3.10 | 2.92 | 2.66 | e2.86 | 2.66 | 3.22  | 3.05 | 2.79  | 3.01 |
| 10   | 2.83 | 2.85 | 2.91 | e3.25 | 2.85 | 2.91 | e2.84 | 2.72 | 3.06  | 3.12 | 2.80  | 2.99 |
| 11   | 2.80 | 2.86 | 2.87 | 3.23  | 2.74 | 3.07 | e2.82 | 2.74 | 2.94  | 3.06 | 2.84  | 2.92 |
| 12   | 2.82 | 2.83 | 2.85 | e3.20 | 2.72 | 3.02 | e2.80 | 2.75 | 2.87  | 3.03 | 2.84  | 2.95 |
| 13   | 2.83 | 2.79 | 2.82 | e3.20 | 2.78 | 2.94 | e2.78 | 2.73 | 2.83  | 3.00 | 2.80  | 2.95 |
| 14   | 2.83 | 2.86 | 2.86 | 3.05  | 2.78 | 2.91 | e2.77 | 2.71 | 2.80  | 2.94 | 2.80  | 2.89 |
| 15   | 2.83 | 2.81 | 2.88 | 2.94  | 2.80 | 2.89 | e2.76 | 2.70 | 3.01  | 2.94 | 2.86  | 2.80 |
| 16   | 2.83 | 2.71 | 2.87 | 2.88  | 2.81 | 2.86 | e2.75 | 2.70 | 3.15  | 2.86 | 2.96  | 2.82 |
| 17   | 2.83 | 2.67 | 2.83 | 2.80  | 2.81 | 2.86 | e2.75 | 2.67 | 3.12  | 2.75 | 3.06  | 2.89 |
| 18   | 2.87 | 2.62 | 2.80 | 2.77  | 2.86 | 2.89 | e2.74 | 2.64 | 3.12  | 2.71 | 3.08  | 2.91 |
| 19   | 2.85 | 2.54 | 2.83 | 2.76  | 2.86 | 2.89 | e2.73 | 2.60 | 3.08  | 2.72 | 3.01  | 2.92 |
| 20   | 2.85 | 2.75 | 2.83 | 2.75  | 2.83 | 2.83 | e2.72 | 2.57 | 3.24  | 2.74 | 2.97  | 2.91 |
| 21   | 2.85 | 2.84 | 2.73 | 2.73  | 2.83 | 2.77 | e2.71 | 2.86 | 3.25  | 2.82 | 2.92  | 2.92 |
| 22   | 2.87 | 2.87 | 2.71 | 2.72  | 2.82 | 2.75 | e2.75 | 3.49 | 3.22  | 2.78 | 2.91  | 3.01 |
| 23   | 2.83 | 2.75 | 2.71 | 2.74  | 2.82 | 2.70 | e2.77 | 3.14 | e3.41 | 2.78 | 2.92  | 3.03 |
| 24   | 2.86 | 2.77 | 2.75 | 2.78  | 2.80 | 2.69 | e2.77 | 3.04 | e3.29 | 2.86 | 2.81  | 3.03 |
| 25   | 2.83 | 2.76 | 2.83 | 2.83  | 2.78 | 2.78 | e2.75 | 2.97 | 3.19  | 2.91 | 2.86  | 3.03 |
| 26   | 2.83 | 2.77 | 2.87 | 2.86  | 2.78 | 2.93 | 2.74  | 2.90 | 3.15  | 2.95 | 2.93  | 2.95 |
| 27   | 2.84 | 2.85 | 2.84 | 2.87  | 2.83 | 3.41 | 2.73  | 2.84 | 3.13  | 2.96 | 2.92  | 2.87 |
| 28   | 2.83 | 2.89 | 2.85 | 2.86  | 2.84 | 3.30 | 2.71  | 2.81 | 3.10  | 3.15 | 2.99  | 2.84 |
| 29   | 2.85 | 2.83 | 2.74 | 2.87  | ---  | 3.22 | 2.68  | 2.78 | 3.05  | 3.08 | 3.04  | 2.84 |
| 30   | 2.81 | 2.76 | 2.75 | 2.85  | ---  | 3.20 | 2.66  | 2.77 | 3.02  | 3.03 | 2.95  | 2.90 |
| 31   | 2.82 | ---  | 2.77 | 2.74  | ---  | 3.15 | ---   | 2.77 | ---   | 3.00 | 2.97  | ---  |
| MEAN | 2.84 | 2.79 | 2.83 | 2.87  | 2.79 | 2.88 | 2.80  | 2.76 | 3.01  | 2.96 | 2.92  | 2.94 |
| MAX  | 2.98 | 2.89 | 2.97 | 3.25  | 3.07 | 3.41 | 3.06  | 3.49 | 3.41  | 3.16 | 3.08  | 3.04 |
| MIN  | 2.75 | 2.54 | 2.71 | 2.72  | 2.66 | 2.66 | 2.66  | 2.56 | 2.70  | 2.71 | 2.79  | 2.80 |

CAL YR 1985 MEAN 2.74 MAX 4.40 MIN 1.98  
WTR YR 1986 MEAN 2.87 MAX 3.49 MIN 2.54

e Estimated

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

207

254315080331500 NORTHEAST SHARK RIVER SLOUGH NO. 2 NEAR COOPERTOWN, FL

LOCATION.--Lat 25°43'15", long 80°33'15", in SW¼ sec.20, T.54 S., R.38 E., Dade County, Hydrologic Unit 03090202, 2.7 mi south of Coopertown in Northeast Shark River Slough.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1976 to September 1980, October 1982 to current year (gage heights). Published as "Northeast Shark Valley Slough No. 2 near Coopertown" October 1976 to September 1977.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 7.38 ft (estimated) Oct. 6, 7, 1982; minimum, 3.41 ft estimated Apr. 23, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 7.32 ft Sept. 7; minimum, 5.95 ft June 2.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 6.74 | 6.94 | 6.78 | 6.52 | 6.41 | 6.27 | 6.56 | 6.36 | 5.97 | 6.81 | 6.96 | 6.99 |
| 2    | 6.72 | 6.94 | 6.77 | 6.51 | 6.41 | 6.25 | 6.54 | 6.34 | 6.05 | 6.79 | 6.95 | 6.98 |
| 3    | 6.74 | 6.93 | 6.76 | 6.50 | 6.40 | 6.24 | 6.53 | 6.33 | 6.18 | 6.79 | 6.95 | 6.99 |
| 4    | 6.77 | 6.94 | 6.75 | 6.48 | 6.39 | 6.23 | 6.53 | 6.33 | 6.16 | 6.81 | 6.95 | 7.00 |
| 5    | 6.91 | 6.93 | 6.75 | 6.47 | 6.38 | 6.21 | 6.52 | 6.33 | 6.15 | 6.85 | 6.98 | 7.06 |
| 6    | 6.92 | 6.93 | 6.75 | 6.46 | 6.37 | 6.20 | 6.51 | 6.32 | 6.13 | 6.93 | 6.96 | 7.06 |
| 7    | 6.97 | 6.92 | 6.74 | 6.45 | 6.36 | 6.18 | 6.51 | 6.30 | 6.12 | 6.92 | 6.95 | 7.11 |
| 8    | 6.93 | 6.92 | 6.72 | 6.46 | 6.36 | 6.17 | 6.51 | 6.28 | 6.12 | 6.93 | 6.94 | 7.21 |
| 9    | 6.90 | 6.91 | 6.71 | 6.54 | 6.35 | 6.15 | 6.51 | 6.27 | 6.13 | 6.93 | 6.93 | 7.14 |
| 10   | 6.89 | 6.91 | 6.70 | 6.59 | 6.35 | 6.22 | 6.50 | 6.25 | 6.12 | 6.93 | 6.92 | 7.10 |
| 11   | 6.89 | 6.91 | 6.68 | 6.59 | 6.34 | 6.33 | 6.50 | 6.24 | 6.11 | 6.92 | 7.00 | 7.07 |
| 12   | 6.88 | 6.92 | 6.66 | 6.59 | 6.33 | 6.34 | 6.50 | 6.22 | 6.13 | 6.92 | 7.00 | 7.04 |
| 13   | 6.88 | 6.92 | 6.65 | 6.59 | 6.32 | 6.34 | 6.55 | 6.21 | 6.24 | 6.91 | 7.00 | 7.03 |
| 14   | 6.88 | 6.92 | 6.64 | 6.57 | 6.30 | 6.35 | 6.57 | 6.22 | 6.30 | 6.90 | 7.01 | 7.01 |
| 15   | 6.87 | 6.92 | 6.63 | 6.56 | 6.29 | 6.34 | 6.57 | 6.24 | 6.33 | 6.89 | 7.01 | 7.00 |
| 16   | 6.86 | 6.91 | 6.62 | 6.55 | 6.28 | 6.34 | 6.57 | 6.24 | 6.37 | 6.88 | 7.08 | 6.98 |
| 17   | 6.86 | 6.91 | 6.63 | 6.54 | 6.27 | 6.34 | 6.56 | 6.22 | 6.39 | 6.87 | 7.12 | 6.98 |
| 18   | 6.86 | 6.90 | 6.62 | 6.53 | 6.37 | 6.34 | 6.54 | 6.20 | 6.39 | 6.86 | 7.11 | 6.97 |
| 19   | 6.87 | 6.92 | 6.61 | 6.52 | 6.42 | 6.33 | 6.53 | 6.18 | 6.41 | 6.87 | 7.09 | 6.96 |
| 20   | 6.88 | 6.92 | 6.59 | 6.51 | 6.41 | 6.31 | 6.52 | 6.16 | 6.56 | 6.87 | 7.07 | 6.96 |
| 21   | 6.88 | 6.90 | 6.58 | 6.50 | 6.40 | 6.35 | 6.50 | 6.15 | 6.62 | 6.87 | 7.04 | 6.97 |
| 22   | 6.88 | 6.89 | 6.57 | 6.49 | 6.38 | 6.35 | 6.49 | 6.14 | 6.61 | 6.89 | 7.03 | 6.98 |
| 23   | 6.88 | 6.90 | 6.56 | 6.48 | 6.37 | 6.34 | 6.47 | 6.13 | 6.61 | 6.94 | 7.02 | 6.99 |
| 24   | 6.88 | 6.89 | 6.55 | 6.48 | 6.35 | 6.33 | 6.46 | 6.13 | 6.60 | 6.94 | 7.03 | 7.00 |
| 25   | 6.88 | 6.87 | 6.57 | 6.47 | 6.33 | 6.32 | 6.44 | 6.11 | 6.60 | 6.93 | 7.06 | 6.98 |
| 26   | 6.87 | 6.86 | 6.55 | 6.47 | 6.31 | 6.39 | 6.43 | 6.09 | 6.60 | 6.98 | 7.06 | 6.99 |
| 27   | 6.91 | 6.85 | 6.54 | 6.46 | 6.30 | 6.48 | 6.42 | 6.07 | 6.65 | 7.06 | 7.04 | 6.98 |
| 28   | 6.98 | 6.83 | 6.54 | 6.44 | 6.28 | 6.56 | 6.40 | 6.05 | 6.70 | 7.07 | 7.02 | 6.97 |
| 29   | 6.97 | 6.81 | 6.56 | 6.44 | ---  | 6.55 | 6.39 | 6.03 | 6.76 | 7.04 | 7.01 | 6.98 |
| 30   | 6.96 | 6.80 | 6.54 | 6.43 | ---  | 6.56 | 6.37 | 6.01 | 6.79 | 7.02 | 6.99 | 6.98 |
| 31   | 6.94 | ---  | 6.53 | 6.42 | ---  | 6.58 | ---  | 5.98 | ---  | 6.99 | 6.98 | ---  |
| MEAN | 6.88 | 6.90 | 6.64 | 6.50 | 6.35 | 6.33 | 6.50 | 6.20 | 6.36 | 6.91 | 7.01 | 7.02 |
| MAX  | 6.98 | 6.94 | 6.78 | 6.59 | 6.42 | 6.58 | 6.57 | 6.36 | 6.79 | 7.07 | 7.12 | 7.21 |
| MIN  | 6.72 | 6.80 | 6.53 | 6.42 | 6.27 | 6.15 | 6.37 | 5.98 | 5.97 | 6.79 | 6.92 | 6.96 |

CAL YR 1985 MEAN 5.93 MAX 7.12 MIN 4.63  
WTR YR 1986 MEAN 6.64 MAX 7.21 MIN 5.97

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

254130080380500 NORTHEAST SHARK RIVER SLOUGH NO. 1 NEAR COOPERTOWN, FL

LOCATION.--Lat 25°41'30", long 80°38'05" in NW¼ sec.4, T.54 S., R.31 E., Dade County, Hydrologic Unit 03090202, 0.7 mi west of southeast corner of Blue Shanty Canal, 0.8 mi south of east-west section of Shanty Canal, and 4.7 mi southwest of Coopertown.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1976 to September 1980, July 1982 to present year (gage heights). Prior to October 1977, published as "Northeast Shark Valley Slough No. 1 near Coopertown."

REVISED RECORD.--WDR FL-79-2A: 1977.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 7.42 ft Oct. 6, 1982; minimum, 4.54 ft estimated Apr. 23, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 7.18 ft Aug. 19; minimum, 6.09 ft June 1, 2.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 6.87 | 7.00 | 6.87 | 6.61 | 6.49 | 6.36 | 6.60 | 6.38 | 6.10 | 6.88 | 7.02 | 7.06 |
| 2    | 6.84 | 6.99 | 6.86 | 6.60 | 6.49 | 6.34 | 6.59 | 6.37 | 6.16 | 6.86 | 7.01 | 7.04 |
| 3    | 6.83 | 6.99 | 6.84 | 6.59 | 6.48 | 6.33 | 6.57 | 6.35 | 6.27 | 6.86 | 7.01 | 7.05 |
| 4    | 6.84 | 7.00 | 6.83 | 6.58 | 6.47 | 6.31 | 6.56 | 6.34 | 6.25 | 6.87 | 7.01 | 7.04 |
| 5    | 6.95 | 6.99 | 6.84 | 6.57 | 6.46 | 6.30 | 6.55 | 6.34 | 6.24 | 6.91 | 7.01 | 7.05 |
| 6    | 6.97 | 6.98 | 6.85 | 6.56 | 6.45 | 6.29 | 6.53 | 6.33 | 6.22 | 7.01 | 7.01 | 7.05 |
| 7    | 7.02 | 6.97 | 6.83 | 6.55 | 6.45 | 6.28 | 6.53 | 6.33 | 6.22 | 7.00 | 7.01 | 7.06 |
| 8    | 7.01 | 6.96 | 6.81 | 6.56 | 6.45 | 6.27 | 6.52 | 6.32 | 6.27 | 6.99 | 7.01 | 7.06 |
| 9    | 7.00 | 6.96 | 6.80 | 6.61 | 6.44 | 6.26 | 6.51 | 6.31 | 6.28 | 6.98 | 6.99 | 7.07 |
| 10   | 6.98 | 6.95 | 6.78 | 6.70 | 6.43 | 6.33 | 6.50 | 6.29 | 6.28 | 6.98 | 6.98 | 7.07 |
| 11   | 6.98 | 6.95 | 6.77 | 6.72 | 6.41 | 6.45 | 6.49 | 6.28 | 6.27 | 6.98 | 7.01 | 7.06 |
| 12   | 6.97 | 6.95 | 6.75 | 6.71 | 6.41 | 6.43 | 6.49 | 6.27 | 6.43 | 6.97 | 7.02 | 7.06 |
| 13   | 6.96 | 6.95 | 6.74 | 6.70 | 6.39 | 6.45 | 6.53 | 6.26 | 6.68 | 6.96 | 7.03 | 7.06 |
| 14   | 6.95 | 6.95 | 6.74 | 6.68 | 6.38 | 6.47 | 6.55 | 6.28 | 6.68 | 6.95 | 7.03 | 7.06 |
| 15   | 6.94 | 6.95 | 6.72 | 6.67 | 6.37 | 6.45 | 6.55 | 6.28 | 6.67 | 6.94 | 7.02 | 7.05 |
| 16   | 6.93 | 6.94 | 6.71 | 6.66 | 6.36 | 6.45 | 6.55 | 6.28 | 6.68 | 6.92 | 7.02 | 7.05 |
| 17   | 6.92 | 6.94 | 6.71 | 6.64 | 6.35 | 6.44 | 6.54 | 6.26 | 6.71 | 6.91 | 7.08 | 7.05 |
| 18   | 6.91 | 6.93 | 6.71 | 6.63 | 6.43 | 6.43 | 6.54 | 6.25 | 6.69 | 6.89 | 7.16 | 7.04 |
| 19   | 6.91 | 6.94 | 6.70 | 6.63 | 6.48 | 6.41 | 6.53 | 6.24 | 6.71 | 6.90 | 7.16 | 7.03 |
| 20   | 6.93 | 6.99 | 6.68 | 6.61 | 6.47 | 6.40 | 6.52 | 6.22 | 6.83 | 6.89 | 7.15 | 7.03 |
| 21   | 6.93 | 6.98 | 6.67 | 6.60 | 6.46 | 6.45 | 6.51 | 6.21 | 6.87 | 6.92 | 7.14 | 7.05 |
| 22   | 6.93 | 6.97 | 6.66 | 6.59 | 6.45 | 6.45 | 6.50 | 6.22 | 6.84 | 6.94 | 7.14 | 7.05 |
| 23   | 6.92 | 6.96 | 6.65 | 6.58 | 6.44 | 6.44 | 6.48 | 6.24 | 6.82 | 6.99 | 7.11 | 7.05 |
| 24   | 6.92 | 6.96 | 6.65 | 6.57 | 6.43 | 6.43 | 6.47 | 6.24 | 6.81 | 6.99 | 7.09 | 7.05 |
| 25   | 6.92 | 6.95 | 6.66 | 6.56 | 6.41 | 6.42 | 6.46 | 6.22 | 6.78 | 6.98 | 7.09 | 7.05 |
| 26   | 6.91 | 6.94 | 6.65 | 6.55 | 6.39 | 6.48 | 6.44 | 6.21 | 6.75 | 7.00 | 7.09 | 7.05 |
| 27   | 6.97 | 6.92 | 6.63 | 6.55 | 6.38 | 6.58 | 6.43 | 6.19 | 6.81 | 7.06 | 7.08 | 7.04 |
| 28   | 7.03 | 6.91 | 6.63 | 6.53 | 6.36 | 6.65 | 6.42 | 6.17 | 6.86 | 7.06 | 7.08 | 7.03 |
| 29   | 7.03 | 6.90 | 6.64 | 6.52 | ---  | 6.63 | 6.41 | 6.15 | 6.85 | 7.06 | 7.09 | 7.02 |
| 30   | 7.03 | 6.89 | 6.63 | 6.51 | ---  | 6.62 | 6.39 | 6.13 | 6.86 | 7.04 | 7.08 | 7.05 |
| 31   | 7.02 | ---  | 6.62 | 6.50 | ---  | 6.61 | ---  | 6.11 | ---  | 7.03 | 7.07 | ---  |
| MEAN | 6.95 | 6.96 | 6.73 | 6.60 | 6.43 | 6.43 | 6.51 | 6.26 | 6.56 | 6.96 | 7.06 | 7.05 |
| MAX  | 7.03 | 7.00 | 6.87 | 6.72 | 6.49 | 6.65 | 6.60 | 6.38 | 6.87 | 7.06 | 7.16 | 7.07 |
| MIN  | 6.83 | 6.89 | 6.62 | 6.50 | 6.35 | 6.26 | 6.39 | 6.11 | 6.10 | 6.86 | 6.98 | 7.02 |

CAL YR 1985 MEAN 6.19 MAX 7.18 MIN 4.57  
WTR YR 1986 MEAN 6.71 MAX 7.16 MIN 6.10



## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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253828080391100 NORTHEAST SHARK RIVER SLOUGH NO. 4, NORTH OF GROSSMAN, FL

LOCATION.--Lat 25°38'28", long 80°39'11", in NW¼ sec.4, T.54 S., R. Government Lot 6 E., Dade County, Hydrologic Unit 03090202, approximately 2.0 mi northeast of the extreme southern end of the L-67 extension levee and 11.8 mi west of Krome Avenue.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--July 1985 to current year (gage heights).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 6.89 ft Aug. 19, 1986; minimum, 5.64 ft June 1, 2, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 6.89 ft Aug. 19; minimum, 5.64 ft June 1, 2.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT  | NOV   | DEC   | JAN   | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1    | 6.66 | 6.73  | e6.58 | e6.39 | 6.24 | 6.08 | 6.36 | 6.04 | 5.65 | 6.57 | 6.75 | 6.77 |
| 2    | 6.63 | 6.72  | e6.57 | e6.38 | 6.23 | 6.06 | 6.35 | 6.02 | 5.72 | 6.56 | 6.75 | 6.76 |
| 3    | 6.62 | 6.71  | e6.56 | e6.38 | 6.22 | 6.04 | 6.33 | 6.01 | 5.80 | 6.56 | 6.74 | 6.78 |
| 4    | 6.66 | 6.73  | e6.55 | e6.37 | 6.21 | 6.03 | 6.32 | 6.04 | 5.77 | 6.55 | 6.73 | 6.77 |
| 5    | 6.76 | 6.71  | e6.55 | e6.36 | 6.20 | 6.02 | 6.30 | 6.06 | 5.76 | 6.58 | 6.74 | 6.77 |
| 6    | 6.75 | 6.70  | e6.57 | e6.35 | 6.19 | 6.00 | 6.29 | 6.05 | 5.76 | 6.66 | 6.72 | 6.75 |
| 7    | 6.80 | 6.70  | e6.56 | e6.35 | 6.18 | 5.99 | 6.27 | 6.04 | 5.79 | 6.67 | 6.71 | 6.75 |
| 8    | 6.79 | 6.69  | e6.55 | e6.36 | 6.17 | 5.97 | 6.26 | 6.02 | 5.98 | 6.67 | 6.70 | 6.75 |
| 9    | 6.77 | 6.68  | e6.54 | e6.37 | 6.16 | 5.96 | 6.24 | 6.01 | 6.09 | 6.66 | 6.69 | 6.77 |
| 10   | 6.76 | 6.68  | e6.53 | e6.41 | 6.15 | 6.00 | 6.22 | 6.02 | 6.06 | 6.67 | 6.68 | 6.77 |
| 11   | 6.74 | 6.67  | e6.52 | e6.43 | 6.14 | 6.09 | 6.21 | 6.00 | 6.05 | 6.70 | 6.73 | 6.76 |
| 12   | 6.73 | 6.67  | e6.50 | e6.45 | 6.13 | 6.09 | 6.20 | 5.97 | 6.23 | 6.72 | 6.76 | 6.76 |
| 13   | 6.73 | 6.66  | e6.49 | 6.44  | 6.12 | 6.11 | 6.24 | 5.96 | 6.49 | 6.69 | 6.75 | 6.79 |
| 14   | 6.71 | 6.66  | e6.48 | 6.43  | 6.11 | 6.14 | 6.25 | 5.95 | 6.49 | 6.67 | 6.74 | 6.77 |
| 15   | 6.70 | 6.65  | e6.47 | 6.42  | 6.09 | 6.14 | 6.24 | 5.95 | 6.47 | 6.65 | 6.73 | 6.75 |
| 16   | 6.69 | 6.65  | e6.46 | 6.41  | 6.08 | 6.13 | 6.23 | 5.94 | 6.52 | 6.63 | 6.74 | 6.74 |
| 17   | 6.68 | 6.64  | e6.46 | 6.40  | 6.07 | 6.13 | 6.21 | 5.93 | 6.56 | 6.61 | 6.78 | 6.73 |
| 18   | 6.67 | 6.63  | e6.45 | 6.39  | 6.15 | 6.12 | 6.20 | 5.90 | 6.51 | 6.60 | 6.84 | 6.72 |
| 19   | 6.66 | 6.65  | e6.45 | 6.39  | 6.19 | 6.11 | 6.19 | 5.89 | 6.51 | 6.60 | 6.86 | 6.71 |
| 20   | 6.69 | 6.68  | e6.43 | 6.38  | 6.18 | 6.10 | 6.18 | 5.87 | 6.64 | 6.60 | 6.86 | 6.70 |
| 21   | 6.68 | 6.68  | e6.43 | 6.36  | 6.17 | 6.15 | 6.18 | 5.85 | 6.68 | 6.60 | 6.84 | 6.72 |
| 22   | 6.68 | 6.69  | e6.42 | 6.35  | 6.16 | 6.16 | 6.17 | 5.86 | 6.64 | 6.60 | 6.83 | 6.73 |
| 23   | 6.67 | e6.68 | e6.41 | 6.34  | 6.15 | 6.15 | 6.15 | 5.86 | 6.62 | 6.61 | 6.81 | 6.74 |
| 24   | 6.67 | e6.66 | e6.40 | 6.33  | 6.14 | 6.14 | 6.14 | 5.84 | 6.60 | 6.62 | 6.80 | 6.73 |
| 25   | 6.67 | e6.65 | e6.45 | 6.32  | 6.13 | 6.13 | 6.13 | 5.82 | 6.57 | 6.63 | 6.80 | 6.72 |
| 26   | 6.66 | e6.64 | e6.43 | 6.31  | 6.11 | 6.22 | 6.11 | 5.80 | 6.54 | 6.67 | 6.80 | 6.71 |
| 27   | 6.70 | e6.63 | e6.42 | 6.30  | 6.10 | 6.33 | 6.10 | 5.78 | 6.55 | 6.76 | 6.78 | 6.69 |
| 28   | 6.76 | e6.62 | e6.41 | 6.28  | 6.09 | 6.42 | 6.09 | 5.76 | 6.58 | 6.80 | 6.80 | 6.68 |
| 29   | 6.76 | e6.61 | e6.41 | 6.27  | ---  | 6.40 | 6.07 | 5.73 | 6.58 | 6.80 | 6.81 | 6.68 |
| 30   | 6.75 | e6.60 | e6.40 | 6.26  | ---  | 6.39 | 6.06 | 5.71 | 6.57 | 6.78 | 6.79 | 6.69 |
| 31   | 6.74 | ---   | e6.40 | 6.25  | ---  | 6.38 | ---  | 5.68 | ---  | 6.76 | 6.78 | ---  |
| MEAN | 6.71 | 6.67  | 6.48  | 6.36  | 6.15 | 6.13 | 6.21 | 5.91 | 6.29 | 6.65 | 6.77 | 6.74 |
| MAX  | 6.80 | 6.73  | 6.58  | 6.45  | 6.24 | 6.42 | 6.36 | 6.06 | 6.68 | 6.80 | 6.86 | 6.79 |
| MIN  | 6.62 | 6.60  | 6.40  | 6.25  | 6.07 | 5.96 | 6.06 | 5.68 | 5.65 | 6.55 | 6.68 | 6.68 |

WTR YR 1986 MEAN 6.43 MAX 6.86 MIN 5.65

e Estimated

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

253753080393600 NORTHEAST SHARK RIVER SLOUGH NO. 5, SOUTH OF GROSSMAN, FL

LOCATION.--Lat 25°37'53", long 80°39'36", in NW¼ sec.4, T.54 S., R. Government Lot 6 E., Dade County, Hydrologic Unit 03090202, approximately 0.3 mi northeast of the extreme southern end of the L-67 extension levee and 11.8 mi west of Krome Avenue.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--July 1985 to current year (gage heights).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 6.97 ft Oct. 4, 1985; minimum, 5.75 ft May 30, 31, June 1, 2, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 6.97 ft Oct. 4; minimum, 5.75 ft May 30, 31, June 1, 2.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 6.70 | 6.75 | 6.65 | 6.42 | 6.29 | 6.11 | 6.40 | 6.06 | 5.75 | 6.59 | 6.81 | 6.81 |
| 2    | 6.69 | 6.74 | 6.64 | 6.41 | 6.28 | 6.10 | 6.39 | 6.04 | 5.80 | 6.58 | 6.81 | 6.80 |
| 3    | 6.68 | 6.74 | 6.63 | 6.41 | 6.27 | 6.08 | 6.37 | 6.03 | 5.88 | 6.57 | 6.80 | 6.82 |
| 4    | 6.74 | 6.76 | 6.62 | 6.40 | 6.26 | 6.07 | 6.35 | 6.04 | 5.86 | 6.57 | 6.79 | 6.80 |
| 5    | 6.84 | 6.75 | 6.62 | 6.39 | 6.25 | 6.06 | 6.34 | 6.07 | 5.83 | 6.58 | 6.80 | 6.82 |
| 6    | 6.81 | 6.74 | 6.63 | 6.37 | 6.24 | 6.05 | 6.32 | 6.06 | 5.80 | 6.64 | 6.78 | 6.80 |
| 7    | 6.85 | 6.73 | 6.61 | 6.36 | 6.22 | 6.03 | 6.31 | 6.06 | 5.83 | 6.66 | 6.77 | 6.79 |
| 8    | 6.85 | 6.73 | 6.60 | 6.37 | 6.21 | 6.01 | 6.29 | 6.04 | 6.04 | 6.67 | 6.76 | 6.78 |
| 9    | 6.83 | 6.72 | 6.59 | 6.41 | 6.20 | 6.00 | 6.28 | 6.05 | 6.16 | 6.66 | 6.74 | 6.80 |
| 10   | 6.81 | 6.71 | 6.58 | 6.47 | 6.19 | 6.03 | 6.26 | 6.08 | 6.12 | 6.66 | 6.73 | 6.80 |
| 11   | 6.79 | 6.71 | 6.57 | 6.48 | 6.18 | 6.08 | 6.24 | 6.06 | 6.12 | 6.72 | 6.80 | 6.79 |
| 12   | 6.78 | 6.70 | 6.55 | 6.48 | 6.17 | 6.09 | 6.23 | 6.04 | 6.29 | 6.77 | 6.82 | 6.78 |
| 13   | 6.77 | 6.70 | 6.54 | 6.48 | 6.16 | 6.11 | 6.27 | 6.02 | 6.53 | 6.73 | 6.81 | 6.80 |
| 14   | 6.76 | 6.69 | 6.53 | 6.47 | 6.14 | 6.14 | 6.28 | 6.01 | 6.55 | 6.71 | 6.80 | 6.79 |
| 15   | 6.74 | 6.69 | 6.52 | 6.46 | 6.14 | 6.14 | 6.26 | 6.00 | 6.53 | 6.69 | 6.78 | 6.77 |
| 16   | 6.73 | 6.69 | 6.51 | 6.45 | 6.12 | 6.14 | 6.25 | 5.99 | 6.59 | 6.67 | 6.79 | 6.76 |
| 17   | 6.72 | 6.68 | 6.51 | 6.45 | 6.11 | 6.14 | 6.24 | 5.98 | 6.63 | 6.65 | 6.82 | 6.75 |
| 18   | 6.71 | 6.67 | 6.51 | 6.44 | 6.19 | 6.14 | 6.22 | 5.96 | 6.58 | 6.64 | 6.88 | 6.75 |
| 19   | 6.70 | 6.70 | 6.50 | 6.43 | 6.23 | 6.13 | 6.21 | 5.94 | 6.56 | 6.64 | 6.91 | 6.74 |
| 20   | 6.73 | 6.78 | 6.48 | 6.42 | 6.22 | 6.12 | 6.20 | 5.93 | 6.68 | 6.66 | 6.90 | 6.72 |
| 21   | 6.72 | 6.76 | 6.47 | 6.41 | 6.21 | 6.18 | 6.19 | 5.91 | 6.74 | 6.67 | 6.88 | 6.74 |
| 22   | 6.71 | 6.75 | 6.46 | 6.40 | 6.20 | 6.19 | 6.18 | 5.89 | 6.69 | 6.66 | 6.87 | 6.75 |
| 23   | 6.70 | 6.75 | 6.45 | 6.39 | 6.19 | 6.18 | 6.16 | 5.88 | 6.66 | 6.65 | 6.86 | 6.76 |
| 24   | 6.71 | 6.74 | 6.44 | 6.38 | 6.18 | 6.16 | 6.15 | 5.87 | 6.64 | 6.66 | 6.84 | 6.76 |
| 25   | 6.70 | 6.73 | 6.47 | 6.37 | 6.16 | 6.15 | 6.14 | 5.85 | 6.62 | 6.67 | 6.84 | 6.75 |
| 26   | 6.69 | 6.72 | 6.45 | 6.36 | 6.15 | 6.22 | 6.13 | 5.82 | 6.59 | 6.72 | 6.84 | 6.74 |
| 27   | 6.72 | 6.70 | 6.43 | 6.35 | 6.13 | 6.33 | 6.11 | 5.79 | 6.58 | 6.82 | 6.83 | 6.72 |
| 28   | 6.77 | 6.69 | 6.44 | 6.33 | 6.12 | 6.43 | 6.10 | 5.77 | 6.61 | 6.86 | 6.85 | 6.71 |
| 29   | 6.78 | 6.68 | 6.45 | 6.32 | ---  | 6.43 | 6.09 | 5.76 | 6.61 | 6.85 | 6.86 | 6.70 |
| 30   | 6.77 | 6.67 | 6.44 | 6.31 | ---  | 6.42 | 6.07 | 5.75 | 6.60 | 6.84 | 6.83 | 6.70 |
| 31   | 6.76 | ---  | 6.43 | 6.30 | ---  | 6.41 | ---  | 5.75 | ---  | 6.82 | 6.82 | ---  |
| MEAN | 6.75 | 6.72 | 6.53 | 6.40 | 6.19 | 6.16 | 6.23 | 5.95 | 6.35 | 6.69 | 6.82 | 6.77 |
| MAX  | 6.85 | 6.78 | 6.65 | 6.48 | 6.29 | 6.43 | 6.40 | 6.08 | 6.74 | 6.86 | 6.91 | 6.82 |
| MIN  | 6.68 | 6.67 | 6.43 | 6.30 | 6.11 | 6.00 | 6.07 | 5.75 | 5.75 | 6.57 | 6.73 | 6.70 |

WTR YR 1986 MEAN 6.46 MAX 6.91 MIN 5.75

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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## 02290710 BLACK CREEK CANAL AT S-21, NEAR GOULDS, FL

LOCATION.--Lat 25°32'34", long 80°19'52", in NE¼ sec.21, T.56 S., R.40 E., Dade County, Hydrologic Unit 03090202, in control house of salinity-control structure S-21, 0.5 mi upstream from mouth, and 3.5 mi east of Goulds.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1957 to October 1969 (gage heights), November 1969 to September 1977, October 1978 to current year. Records of gage heights prior to October 1962 are available in files of the Geological Survey.

GAGE.--Digital upstream, downstream recorders and gate-opening recorders. Datum of gages is National Geodetic Vertical Datum of 1929 (Dade County bench mark). Prior to Aug. 9, 1960, water-stage recorder at site 270 ft upstream in north lateral borrow canal, and Apr. 9, 1960 to July 8, 1968, at site 810 ft upstream in north lateral borrow canal all at same datum.

REMARKS.--Records fair, except those for estimated daily discharges, which are poor. Flow is affected by tide and is occasionally reversed. Flow is regulated by the operation of salinity-control structure S-21 and by some upstream pumpage for irrigation. Discharge computed from relation between head, discharges and gate-openings at structure S-21.

COOPERATION.--Supplementary gate-opening record and gage-height record provided by South Florida Water Management District.

AVERAGE DISCHARGE.--15 years (water years 1971-77, 1979-86), 150 ft<sup>3</sup>/s, 109,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,340 ft<sup>3</sup>/s Aug. 18, 1981; maximum gage height, 6.41 ft Sept. 10, 1960; no flow for many days each year; maximum daily reverse flow, 384 ft<sup>3</sup>/s Jan. 23, 1983; minimum gage height, -0.57 ft Apr. 8, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 648 ft<sup>3</sup>/s Nov. 23; maximum gage height, 2.66 ft Oct. 15; no flow for many days; maximum daily reverse flow, 24 ft<sup>3</sup>/s Mar. 27; minimum gage height, 0.01 ft Dec. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT     | NOV     | DEC     | JAN     | FEB    | MAR     | APR    | MAY    | JUN     | JUL     | AUG    | SEP  |
|-------|---------|---------|---------|---------|--------|---------|--------|--------|---------|---------|--------|------|
| 1     | 140     | .60     | 208     | 83      | .00    | 47      | e 78   | e .00  | 11      | 178     | 37     | e123 |
| 2     | 96      | .00     | 213     | 83      | .00    | .00     | e 46   | e .00  | 9.8     | 41      | 41     | e 82 |
| 3     | 112     | .00     | 204     | 82      | .00    | .00     | e 9.1  | e .00  | 28      | 119     | 58     | e 99 |
| 4     | 118     | 37      | 234     | 77      | .00    | .00     | e .00  | e .00  | 13      | 119     | 209    | e 51 |
| 5     | 127     | .00     | 318     | 82      | .00    | .00     | e 14   | e .00  | 15      | 98      | 7.9    | e 74 |
| 6     | 124     | .00     | 485     | 36      | .00    | .00     | e 88   | e .00  | 195     | 157     | 3.1    | e146 |
| 7     | 119     | .00     | 527     | 1.6     | .00    | .00     | e .00  | e .00  | .00     | 93      | 76     | e140 |
| 8     | 343     | .00     | 525     | 78      | .00    | .00     | e 9.6  | e .00  | 102     | 69      | 1.8    | e151 |
| 9     | e512    | .40     | 367     | 93      | .00    | .00     | e 8.3  | e .00  | 94      | 182     | 24     | e166 |
| 10    | e508    | 1.5     | 192     | 176     | .00    | 320     | e 43   | e .00  | 84      | 68      | 40     | e206 |
| 11    | e399    | .80     | 195     | 68      | .00    | 375     | e 76   | e .00  | 155     | 79      | 107    | e 50 |
| 12    | e291    | .20     | 107     | 145     | 43     | e210    | e .00  | e .10  | 2.6     | 216     | 135    | e160 |
| 13    | e280    | .00     | .00     | 241     | .00    | e169    | e 32   | e 49   | 136     | 61      | 63     | e112 |
| 14    | e290    | .00     | .00     | 191     | .00    | e179    | e 12   | e .00  | 117     | 74      | 79     | e 17 |
| 15    | e275    | .00     | .00     | 73      | .00    | e177    | e 12   | e .00  | 135     | 115     | 66     | e 68 |
| 16    | e241    | .00     | .00     | 1.8     | .00    | e170    | e 14   | e .00  | 169     | 77      | 180    | e 44 |
| 17    | e120    | .00     | 3.2     | 56      | .00    | e168    | e 11   | e .00  | 333     | 71      | 325    | e 84 |
| 18    | e .00   | 110     | 10      | 101     | 40     | e150    | e .00  | e .00  | 295     | 35      | 352    | e 90 |
| 19    | e 61    | -2.7    | 16      | 90      | 50     | e 15    | e126   | e .00  | 208     | 61      | 257    | e 64 |
| 20    | e 61    | 326     | .00     | 185     | 2.4    | e 25    | e 41   | e .00  | 357     | 93      | 212    | e 36 |
| 21    | e 75    | 482     | .00     | 185     | 70     | e194    | e .00  | e .00  | 298     | 151     | 227    | e159 |
| 22    | e .00   | 583     | .00     | 174     | .00    | e188    | e .00  | e 87   | 224     | .00     | 207    | e101 |
| 23    | e .00   | 648     | 2.9     | 166     | .00    | e135    | e .00  | e155   | 178     | 82      | 163    | e293 |
| 24    | e 61    | 584     | 61      | 155     | 64     | e .00   | e .00  | 22     | 233     | 93      | 124    | e 44 |
| 25    | e .00   | 450     | 1.8     | 138     | .00    | e .00   | e .00  | 87     | 199     | 137     | e170   | e 78 |
| 26    | e .00   | 209     | 87      | .00     | .00    | e 39    | e .00  | 17     | 154     | 133     | e184   | e 95 |
| 27    | e .00   | 178     | 94      | .00     | .00    | e-24    | e .00  | 98     | 170     | 67      | e127   | e 97 |
| 28    | e 65    | 179     | 87      | .00     | .00    | e 55    | e .00  | 16     | 189     | 93      | e158   | e130 |
| 29    | e .00   | 197     | 90      | .00     | ---    | e 55    | e .00  | 122    | 145     | 60      | e150   | e133 |
| 30    | e .00   | 206     | 86      | .00     | ---    | e 50    | e .00  | 136    | 137     | 75      | e151   | e157 |
| 31    | e 45    | ---     | 83      | .00     | ---    | e 73    | ---    | 12     | ---     | 53      | e124   | ---  |
| TOTAL | 4463.00 | 4189.80 | 4196.90 | 2761.40 | 269.40 | 2780.00 | 620.00 | 801.10 | 4386.40 | 2950.00 | 4058.8 | 3250 |
| MEAN  | 144     | 140     | 135     | 89.1    | 9.62   | 89.7    | 20.7   | 25.8   | 146     | 95.2    | 131    | 108  |
| MAX   | 512     | 648     | 527     | 241     | 70     | 375     | 126    | 155    | 357     | 216     | 352    | 293  |
| MIN   | .00     | -2.7    | .00     | .00     | .00    | -24     | .00    | .00    | .00     | .00     | 1.8    | 17   |
| AC-FT | 8850    | 8310    | 8320    | 5480    | 534    | 5510    | 1230   | 1590   | 8700    | 5850    | 8050   | 6450 |

CAL YR 1985 TOTAL 30898.80 MEAN 84.7 MAX 1220 MIN -2.7 AC-FT 61290  
WTR YR 1986 TOTAL 34726.80 MEAN 95.1 MAX 648 MIN -24 AC-FT 68880

e Estimated

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1           | 2.18 | 2.33 | 2.28 | 2.05 | 2.37 | 2.28 | 1.64 | 2.36 | 2.23 | 2.13 | 2.26 | 2.27 |
| 2           | 2.25 | 2.39 | 2.29 | 2.04 | 2.37 | 2.32 | 1.75 | 2.33 | 2.17 | 2.13 | 2.31 | 2.30 |
| 3           | 2.23 | 2.41 | 2.29 | 2.02 | 2.37 | 2.34 | 1.87 | 2.31 | 2.09 | 2.25 | 2.32 | 2.20 |
| 4           | 2.20 | 2.20 | 2.27 | 2.00 | 2.37 | 2.34 | 2.30 | 2.33 | 2.28 | 1.93 | 2.36 | 2.27 |
| 5           | 2.17 | 2.27 | 2.05 | 2.00 | 2.38 | 2.36 | 2.24 | 2.36 | 2.35 | 1.84 | 2.34 | 2.21 |
| 6           | 2.16 | 2.34 | 2.09 | 2.03 | 2.38 | 2.36 | 1.89 | 2.35 | 2.35 | 2.28 | 1.92 | 2.23 |
| 7           | 2.39 | 2.35 | 2.32 | 2.29 | 2.39 | 2.36 | 2.24 | 2.34 | 2.36 | 2.30 | 2.23 | 2.17 |
| 8           | 2.18 | 2.36 | 2.30 | 2.28 | 2.40 | 2.34 | 2.24 | 2.32 | 2.39 | 2.29 | 2.23 | 2.17 |
| 9           | 2.11 | 2.35 | 2.17 | 2.20 | 2.40 | 2.32 | 2.26 | 2.32 | 2.08 | 2.33 | 2.31 | 2.13 |
| 10          | 2.11 | 2.35 | 2.23 | 2.18 | 2.40 | 2.14 | 2.29 | 2.30 | 2.15 | 2.07 | 2.35 | 2.17 |
| 11          | 2.13 | 2.36 | 2.25 | 2.22 | 2.41 | 1.91 | 2.06 | 2.29 | 2.08 | 2.27 | 2.29 | 2.20 |
| 12          | 2.21 | 2.39 | 2.18 | 2.18 | 2.27 | 1.80 | 2.34 | 2.27 | 1.97 | 2.29 | 2.15 | 2.17 |
| 13          | 2.24 | 2.39 | 2.28 | 1.91 | 2.34 | 1.95 | 2.09 | 2.14 | 2.18 | 2.07 | 2.29 | 2.00 |
| 14          | 2.20 | 2.39 | 2.30 | 1.51 | 2.36 | 1.96 | 2.27 | 2.03 | 2.18 | 2.20 | 2.29 | 2.02 |
| 15          | 2.18 | 2.38 | 2.30 | 1.61 | 2.37 | 1.88 | 2.30 | 2.12 | 2.28 | 2.25 | 2.32 | 1.98 |
| 16          | 2.19 | 2.37 | 2.32 | 2.19 | 2.37 | 1.91 | 2.24 | 2.18 | 1.65 | 2.32 | 2.24 | 1.98 |
| 17          | 2.16 | 2.36 | 2.36 | 2.30 | 2.37 | 1.85 | 2.30 | 2.21 | 2.19 | 2.32 | 2.13 | 1.98 |
| 18          | 2.34 | 1.99 | 2.33 | 2.26 | 2.33 | 1.74 | 2.34 | 2.22 | 2.17 | 2.30 | 2.00 | 1.99 |
| 19          | 2.25 | 1.99 | 2.33 | 2.28 | 2.30 | 2.02 | 1.83 | 2.21 | 2.15 | 2.30 | 2.05 | 2.00 |
| 20          | 2.25 | 2.08 | 2.37 | 1.97 | 2.40 | 2.32 | 1.95 | 2.20 | 2.20 | 2.13 | 2.08 | 1.97 |
| 21          | 2.20 | 2.13 | 2.39 | 1.78 | 2.23 | 2.09 | 2.24 | 2.19 | 2.15 | 2.09 | 2.06 | 1.97 |
| 22          | 1.94 | 2.23 | 2.40 | 1.69 | 2.34 | 1.73 | 2.34 | 2.18 | 2.14 | 2.31 | 2.19 | 1.96 |
| 23          | 1.93 | 2.23 | 2.40 | 1.65 | 2.40 | 1.70 | 2.37 | 2.19 | 2.13 | 2.23 | 2.18 | 1.96 |
| 24          | 2.02 | 2.15 | 2.38 | 1.62 | 2.21 | 2.10 | 2.39 | 2.21 | 2.22 | 2.21 | 2.11 | 1.40 |
| 25          | 2.20 | 2.16 | 2.35 | 1.62 | 2.31 | 2.33 | 2.41 | 2.26 | 2.21 | 2.17 | 2.21 | 1.54 |
| 26          | 2.34 | 2.23 | 2.25 | 1.96 | 2.36 | 1.86 | 2.41 | 1.96 | 2.17 | 2.27 | 2.13 | 1.70 |
| 27          | 2.41 | 2.25 | 2.10 | 2.17 | 2.38 | .97  | 2.42 | 2.32 | 2.17 | 2.32 | 2.26 | 1.75 |
| 28          | 2.25 | 2.25 | 2.08 | 2.26 | 2.40 | 1.30 | 2.41 | 2.26 | 2.24 | 2.36 | 2.28 | 1.47 |
| 29          | 2.32 | 2.27 | 2.11 | 2.30 | ---  | 1.62 | 2.40 | 2.30 | 2.12 | 2.31 | 2.27 | 1.50 |
| 30          | 2.41 | 2.28 | 2.10 | 2.33 | ---  | 1.50 | 2.38 | 2.28 | 2.29 | 2.32 | 2.23 | 1.54 |
| 31          | 2.31 | ---  | 2.07 | 2.35 | ---  | 1.74 | ---  | 2.31 | ---  | 2.32 | 2.25 | ---  |
| MEAN        | 2.21 | 2.27 | 2.26 | 2.04 | 2.36 | 1.98 | 2.21 | 2.25 | 2.18 | 2.22 | 2.21 | 1.97 |
| MAX         | 2.41 | 2.41 | 2.40 | 2.35 | 2.41 | 2.36 | 2.42 | 2.36 | 2.39 | 2.36 | 2.36 | 2.30 |
| MIN         | 1.93 | 1.99 | 2.05 | 1.51 | 2.21 | .97  | 1.64 | 1.96 | 1.65 | 1.84 | 1.92 | 1.40 |
| CAL YR 1985 | MEAN | 2.13 | MAX  | 2.41 | MIN  | 1.68 |      |      |      |      |      |      |
| WTR YR 1986 | MEAN | 2.18 | MAX  | 2.42 | MIN  | .97  |      |      |      |      |      |      |

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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02290725 MOWRY CANAL NEAR HOMESTEAD, FL

LOCATION.--Lat 25°28'13", long 80°20'47", in NE¼ sec.17, T.57 S., R.40 E., Dade County, Hydrologic Unit 03090202, in control house of salinity-control structure S-20F, 0.5 mi upstream from mouth, and 8 mi east of Homestead.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1954 to March 1970 (gage heights), April 1970 to current year. Records of gage heights prior to October 1962 are available in files of the Geological Survey.

GAGE.--Digital upstream and downstream water-stage recorders, digital gate-opening recorders. Datum of gage heights prior to October 1962 are available in files of the Geological Survey.

REMARKS.--Records poor. Flow is affected by tide and is occasionally reversed. Flow is regulated by operation of salinity-control structure S-20F and by some upstream pumpage for irrigation. Discharge computed from relation between head, discharges, and gate openings at structure S-20F.

COOPERATION.--Supplementary gage-height and gate-opening records provided by South Florida Water Management District.

AVERAGE DISCHARGE.--14 years (1971-82, 85, 86), 205 ft<sup>3</sup>/s, 148,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,660 ft<sup>3</sup>/s Sept. 27, 1981; maximum gage height, 9.25 ft Sept. 8, 1965; no flow for many days each year; minimum gage height, -1.03 ft May 10, 12, June 26, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 831 ft<sup>3</sup>/s June 8; maximum gage height, 2.52 ft Mar. 26; no flow for many days; minimum gage height, -.09 ft Mar. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN     | FEB     | MAR     | APR     | MAY    | JUN     | JUL     | AUG        | SEP        |
|-------|-------|-------|-------|---------|---------|---------|---------|--------|---------|---------|------------|------------|
| 1     | 254   | 314   | 196   | 223     | 134     | 33      | e332    | e      | .00     | e       | .00        | e115       |
| 2     | 259   | 293   | 197   | 219     | 158     | .00     | e275    | e      | .00     | e       | .00        | e 64       |
| 3     | 217   | 275   | 187   | 222     | 128     | .00     | e 51    | e      | .00     | e       | .00        | e 63       |
| 4     | 245   | 384   | 328   | 215     | 134     | .00     | e 70    | e      | .00     | e       | .00        | e184       |
| 5     | 238   | 353   | 492   | 215     | 115     | .00     | e 54    | e      | .00     | e       | .00        | e389       |
| 6     | 296   | 255   | 436   | 120     | 114     | .00     | e 70    | e      | .00     | e       | .00        | e299       |
| 7     | 550   | 278   | 297   | 205     | 101     | .00     | e 39    | e      | .00     | e408    | e213       | 1.3 e365   |
| 8     | 234   | 194   | 286   | 182     | 71      | .00     | e 57    | e      | .00     | e831    | e132       | .00 e422   |
| 9     | 241   | 182   | 273   | 238     | 54      | .00     | e 75    | e      | .00     | e603    | e179       | .00 e400   |
| 10    | 218   | 160   | 196   | 457     | 81      | 240     | e 37    | e      | .00     | e369    | e168       | e 49 e294  |
| 11    | 270   | 163   | 221   | 435     | 245     | 412     | e .00   | e      | .00     | e260    | e190       | e .00 e288 |
| 12    | 145   | 184   | 263   | 390     | 400     | e271    | e 41    | e      | .00     | e173    | e105       | e .00 191  |
| 13    | 219   | 167   | 277   | 407     | 232     | e343    | e353    | e      | .00     | e327    | e117       | e 52 136   |
| 14    | 188   | 169   | 283   | 360     | 210     | e336    | e320    | e      | .00     | e322    | e 27 e118  | 67         |
| 15    | 361   | 167   | 269   | 357     | 150     | e201    | e185    | e      | .00     | e312    | e132       | e 81 84    |
| 16    | 398   | 180   | 240   | 321     | 95      | e540    | e179    | e      | .00     | e331    | e .00 e225 | 36         |
| 17    | 321   | 171   | 291   | 257     | 114     | e235    | e130    | e      | .00     | e306    | e .00 e533 | 198        |
| 18    | 358   | 74    | 249   | 282     | 359     | e 80    | e 35    | e      | .00     | e226    | e .00 e743 | 133        |
| 19    | 425   | 43    | 253   | 310     | 84      | e 83    | e 99    | e      | .00     | e219    | e .00 e419 | 159        |
| 20    | 428   | 288   | 203   | 283     | 86      | e 72    | e 44    | e      | .00     | e505    | e .00 285  | 85         |
| 21    | 341   | 277   | 167   | 226     | 71      | e397    | e 38    | e      | .00     | e549    | e 33 271   | 501        |
| 22    | 265   | 287   | 241   | 285     | 54      | e294    | e 35    | e      | .00     | e654    | e 32 244   | 375        |
| 23    | 249   | 280   | 192   | 202     | 79      | e171    | e .00   | e      | .00     | e516    | e .00 194  | 493        |
| 24    | 284   | 239   | 209   | 195     | 37      | e 78    | e 98    | e      | .00     | e522    | e 38 150   | 383        |
| 25    | 278   | 213   | 344   | 180     | 71      | e 46    | e183    | e      | .00     | e453    | e298 183   | 321        |
| 26    | 252   | 202   | 206   | 258     | .00     | e638    | e 96    | e      | .00     | e313    | e390 130   | 200        |
| 27    | 231   | 218   | 189   | 67      | 31      | e738    | e165    | e      | .00     | e379    | e133 237   | 259        |
| 28    | 339   | 193   | 258   | .00     | .00     | e569    | e195    | e      | .00     | e482    | e107 95    | 100        |
| 29    | 339   | 234   | 334   | .00     | ---     | e433    | e 98    | e      | .00     | e548    | e 71 91    | 87         |
| 30    | 337   | 231   | 286   | 237     | ---     | e405    | e .00   | e      | .00     | e107    | e356 248   | 77 95      |
| 31    | 335   | ---   | 218   | 182     | ---     | e347    | ---     | 9.8    | ---     | 167     | e144       | ---        |
| TOTAL | 9115  | 6668  | 8081  | 7530.00 | 3408.00 | 6962.00 | 3354.00 | 207.80 | 9964.00 | 4368.00 | 4322.30    | 6786       |
| MEAN  | 294   | 222   | 261   | 243     | 122     | 225     | 112     | 6.70   | 332     | 141     | 139        | 226        |
| MAX   | 550   | 384   | 492   | 457     | 400     | 738     | 353     | 107    | 831     | 390     | 743        | 501        |
| MIN   | 145   | 43    | 167   | .00     | .00     | .00     | .00     | .00    | .00     | .00     | .00        | 36         |
| AC-FT | 18080 | 13230 | 16030 | 14940   | 6760    | 13810   | 6650    | 412    | 19760   | 8660    | 8570       | 13460      |

CAL YR 1985 TOTAL 68355.70 MEAN 187 MAX 1800 MIN .00 AC-FT 135600  
WTR YR 1986 TOTAL 70766.10 MEAN 194 MAX 831 MIN .00 AC-FT 140400

e Estimated



02290725 MOWRY CANAL NEAR HOMESTEAD, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT  | NOV  | DEC      | JAN      | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------------|------|------|----------|----------|------|------|------|------|------|------|------|------|
| 1           | 2.19 | 1.60 | 1.29     | 1.36     | 1.39 | 1.66 | 1.36 | 1.45 | 1.86 | 2.08 | 2.12 | 2.20 |
| 2           | 2.15 | 1.60 | 1.30     | 1.37     | 1.40 | 1.66 | 1.35 | 1.45 | 1.87 | 2.07 | 2.12 | 2.22 |
| 3           | 2.16 | 1.59 | 1.33     | 1.36     | 1.43 | 1.64 | 1.56 | 1.45 | 1.86 | 2.05 | 2.11 | 2.21 |
| 4           | 2.17 | 1.49 | 1.31     | 1.40     | 1.37 | 1.63 | 1.67 | 1.49 | 1.84 | 2.07 | 2.11 | 2.18 |
| 5           | 2.12 | 1.32 | 1.37     | 1.37     | 1.39 | 1.63 | 1.66 | 1.57 | 1.82 | 2.09 | 2.15 | 2.16 |
| 6           | 2.12 | 1.35 | 1.37     | 1.40     | 1.38 | 1.63 | 1.65 | 1.55 | 1.79 | 2.09 | 2.23 | 2.18 |
| 7           | 2.04 | 1.31 | 1.44     | 1.47     | 1.39 | 1.61 | 1.70 | 1.55 | 1.89 | 2.09 | 2.22 | 2.16 |
| 8           | 2.19 | 1.37 | 1.40     | 1.42     | 1.41 | 1.59 | 1.68 | 1.57 | 1.98 | 2.13 | 2.21 | 2.14 |
| 9           | 2.16 | 1.39 | 1.37     | 1.50     | 1.40 | 1.57 | 1.65 | 1.63 | 2.00 | 2.11 | 2.20 | 2.12 |
| 10          | 2.15 | 1.41 | 1.40     | 1.43     | 1.40 | 1.52 | 1.67 | 1.63 | 2.04 | 2.12 | 2.18 | 2.18 |
| 11          | 2.15 | 1.37 | 1.40     | 1.43     | 1.37 | 1.32 | 1.71 | 1.62 | 2.08 | 2.13 | 2.21 | 2.12 |
| 12          | 2.24 | 1.35 | 1.36     | 1.48     | 1.36 | 1.34 | 1.67 | 1.60 | 2.11 | 2.18 | 2.23 | 2.16 |
| 13          | 2.17 | 1.36 | 1.35     | 1.47     | 1.35 | 1.35 | 1.62 | 1.60 | 2.02 | 2.16 | 2.21 | 2.18 |
| 14          | 2.16 | 1.35 | 1.38     | 1.43     | 1.30 | 1.21 | 1.61 | 1.58 | 1.98 | 2.22 | 2.18 | 2.20 |
| 15          | 1.92 | 1.35 | 1.38     | 1.41     | 1.37 | 1.35 | 1.62 | 1.57 | 1.97 | 2.10 | 2.21 | 2.19 |
| 16          | 1.74 | 1.35 | 1.39     | 1.30     | 1.41 | 1.32 | 1.62 | 1.58 | 2.01 | 2.22 | 2.15 | 2.23 |
| 17          | 1.75 | 1.35 | 1.39     | 1.37     | 1.39 | 1.47 | 1.64 | 1.57 | 2.06 | 2.22 | 2.08 | 2.16 |
| 18          | 1.76 | 1.46 | 1.38     | 1.34     | 1.34 | 1.66 | 1.68 | 1.56 | 2.08 | 2.21 | 2.00 | 2.19 |
| 19          | 1.75 | 1.74 | 1.37     | 1.35     | 1.58 | 1.66 | 1.63 | 1.54 | 2.12 | 2.21 | 2.06 | 2.18 |
| 20          | 1.78 | 1.49 | 1.37     | 1.32     | 1.67 | 1.66 | 1.67 | 1.56 | 2.12 | 2.22 | 2.12 | 2.21 |
| 21          | 1.80 | 1.33 | 1.37     | 1.34     | 1.66 | 1.42 | 1.68 | 1.61 | 2.06 | 2.23 | 2.13 | 2.10 |
| 22          | 1.82 | 1.33 | 1.38     | 1.32     | 1.69 | 1.33 | 1.67 | 1.71 | 2.06 | 2.23 | 2.13 | 2.10 |
| 23          | 1.81 | 1.31 | 1.39     | 1.34     | 1.65 | 1.41 | 1.68 | 2.01 | 2.11 | 2.24 | 2.13 | 2.07 |
| 24          | 1.75 | 1.40 | 1.40     | 1.37     | 1.69 | 1.54 | 1.61 | 2.05 | 2.05 | 2.22 | 2.21 | 2.10 |
| 25          | 1.72 | 1.37 | 1.35     | 1.40     | 1.64 | 1.69 | 1.49 | 2.03 | 2.04 | 2.11 | 2.19 | 2.09 |
| 26          | 1.73 | 1.36 | 1.34     | 1.33     | 1.68 | 1.68 | 1.47 | 2.01 | 2.12 | 1.97 | 2.22 | 2.15 |
| 27          | 1.82 | 1.34 | 1.36     | 1.49     | 1.66 | 1.11 | 1.46 | 1.99 | 2.06 | 2.06 | 2.08 | 2.09 |
| 28          | 1.76 | 1.36 | 1.33     | 1.66     | 1.67 | 1.32 | 1.35 | 1.97 | 2.02 | 2.18 | 2.23 | 2.19 |
| 29          | 1.74 | 1.33 | 1.34     | 1.71     | ---  | 1.44 | 1.37 | 1.91 | 1.96 | 2.21 | 2.23 | 2.20 |
| 30          | 1.68 | 1.31 | 1.37     | 1.49     | ---  | 1.45 | 1.40 | 1.81 | 1.98 | 2.04 | 2.21 | 2.21 |
| 31          | 1.64 | ---  | 1.38     | 1.38     | ---  | 1.43 | ---  | 1.85 | ---  | 1.96 | 2.20 | ---  |
| MEAN        | 1.94 | 1.40 | 1.37     | 1.41     | 1.48 | 1.49 | 1.59 | 1.68 | 2.00 | 2.14 | 2.16 | 2.16 |
| MAX         | 2.24 | 1.74 | 1.44     | 1.71     | 1.69 | 1.69 | 1.71 | 2.05 | 2.12 | 2.24 | 2.23 | 2.23 |
| MIN         | 1.64 | 1.31 | 1.29     | 1.30     | 1.30 | 1.11 | 1.35 | 1.45 | 1.79 | 1.96 | 2.00 | 2.07 |
|             |      |      |          |          |      |      |      |      |      |      |      |      |
| CAL YR 1985 | MEAN | 1.73 | MAX 2.30 | MIN 1.10 |      |      |      |      |      |      |      |      |
| WTR YR 1986 | MEAN | 1.74 | MAX 2.24 | MIN 1.11 |      |      |      |      |      |      |      |      |

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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02290769 CANAL 111 ABOVE S-18-C, NEAR FLORIDA CITY, FL

LOCATION.--Lat 25°19'49", long 80°31'31", in NW¼ sec.3, T.59 S., R.38 E., Dade County, Hydrologic Unit 03090202, at control structure 18-C, and 8.5 mi south of Florida City.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1968 to current year.

REVISED RECORD.--WDR FL-78-2A: 1974-77.

GAGE.--Digital water-stage recorders and dual graphic water-stage and gate opening recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark).

REMARKS.--No estimated daily discharges. Records poor. Flow regulated by S-18-C. Discharge computed from relation between head, and gate openings at S-18-C or between downstream stage and gate opening of S-197 when gates at S-18-C are clear of the water.

COOPERATION.--Gate-opening recorder record and record of slot operations provided by South Florida Water Management District.

AVERAGE DISCHARGE.--18 years, 134 ft<sup>3</sup>/s, 97,080 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,270 ft<sup>3</sup>/s Aug. 21, 1981; maximum gage height, 3.62 ft July 24, 1985; no flow for many days each year; maximum daily reverse flow, 139 ft<sup>3</sup>/s Aug. 25, 1985; minimum gage height, -1.53 ft May 14, 1971 (estimated).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,250 ft<sup>3</sup>/s June 24; maximum gage height, 2.72 ft Aug. 18, 19, Sept. 8; no flow for many days; maximum daily reverse flow, 13 ft<sup>3</sup>/s Nov. 17; minimum gage height, 1.50 ft May 19.

CORRECTIONS.--The average annual discharge for 1985 water year was 120 ft<sup>3</sup>/s; the previously published figure was not the average discharge. The maximum daily reverse discharge for 1985 water year was 139 ft<sup>3</sup>/s Aug. 25, 1985, this was omitted in 1985 report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT   | NOV      | DEC     | JAN     | FEB    | MAR     | APR     | MAY  | JUN      | JUL   | AUG   | SEP   |
|-------|-------|----------|---------|---------|--------|---------|---------|------|----------|-------|-------|-------|
| 1     | 786   | 574      | .00     | .00     | .00    | 34      | 829     | .00  | .00      | 1100  | 649   | 703   |
| 2     | 755   | 561      | .00     | .00     | .00    | .00     | 817     | .00  | .00      | 1110  | 647   | 347   |
| 3     | 735   | 525      | .00     | .00     | .00    | .00     | 818     | .00  | .00      | 959   | 637   | 99    |
| 4     | 734   | 534      | 25      | .00     | .00    | .00     | 685     | .00  | .00      | 944   | 674   | 412   |
| 5     | 745   | 510      | 42      | .00     | .00    | .00     | 467     | .00  | .00      | 930   | 820   | 830   |
| 6     | 748   | 484      | 479     | .00     | .00    | .00     | .00     | .00  | .00      | 926   | 821   | 843   |
| 7     | 810   | 460      | 928     | .00     | .00    | .00     | .00     | .00  | .00      | 916   | 818   | 871   |
| 8     | 820   | 429      | 931     | .00     | .00    | .00     | .00     | .00  | 163      | 906   | 784   | 1110  |
| 9     | 791   | 412      | 385     | 110     | .00    | .00     | .00     | .00  | 292      | 879   | 377   | 1230  |
| 10    | 755   | 391      | .00     | 751     | .00    | .00     | .00     | .00  | 92       | 902   | 192   | 1150  |
| 11    | 641   | 374      | .00     | 844     | .00    | .00     | .00     | .00  | .00      | 892   | 435   | 1070  |
| 12    | 519   | 299      | .00     | 870     | .00    | .00     | .00     | .00  | .00      | 898   | 686   | 891   |
| 13    | 612   | 512      | .00     | 590     | .00    | .00     | 236     | .00  | 71       | 883   | 698   | 869   |
| 14    | 627   | 959      | .00     | 650     | .00    | .00     | 142     | .00  | 588      | 760   | 707   | 879   |
| 15    | 619   | 1100     | .00     | 626     | .00    | .00     | .00     | .00  | 139      | 810   | 710   | 886   |
| 16    | 558   | -4.6     | .00     | 287     | .00    | .00     | .00     | .00  | 347      | 763   | 772   | 739   |
| 17    | 477   | -13      | .00     | .00     | .00    | .00     | .00     | .00  | 707      | 793   | 1000  | 733   |
| 18    | 487   | 150      | .00     | .00     | .00    | .00     | .00     | .00  | 523      | 866   | 1110  | 773   |
| 19    | 498   | 335      | .00     | .00     | .00    | .00     | .00     | .00  | 31       | 482   | 1200  | 621   |
| 20    | 760   | 664      | .00     | .00     | .00    | .00     | .00     | .00  | 832      | 522   | 1160  | 405   |
| 21    | 780   | 583      | .00     | .00     | .00    | .00     | .00     | .00  | 850      | 740   | 1080  | 348   |
| 22    | 787   | 471      | .00     | .00     | .00    | .00     | .00     | .00  | 846      | 398   | 1040  | 519   |
| 23    | 759   | 450      | .00     | .00     | .00    | .00     | .00     | .00  | 1030     | 405   | 975   | 634   |
| 24    | 760   | 427      | .00     | .00     | 30     | .00     | .00     | .00  | 1250     | 634   | 911   | 720   |
| 25    | 751   | 355      | .00     | .00     | 78     | 63      | .00     | .00  | 1130     | 527   | 865   | 710   |
| 26    | 748   | 146      | .00     | .00     | 81     | 448     | .00     | .00  | 761      | 478   | 834   | 523   |
| 27    | 791   | 97       | .00     | .00     | 81     | 666     | .00     | .00  | 826      | 488   | 752   | 484   |
| 28    | 804   | 24       | .00     | .00     | 76     | 759     | .00     | .00  | 967      | 669   | 680   | 428   |
| 29    | 785   | .00      | .00     | .00     | ---    | 799     | .00     | .00  | 992      | 764   | 640   | 600   |
| 30    | 744   | .00      | .00     | .00     | ---    | 820     | .00     | .00  | 986      | 681   | 647   | 1120  |
| 31    | 637   | ---      | .00     | .00     | ---    | 834     | ---     | .00  | ---      | 663   | 741   | ---   |
| TOTAL | 21823 | 11808.40 | 2790.00 | 4728.00 | 346.00 | 4423.00 | 3994.00 | .00  | 13423.00 | 23688 | 24062 | 21547 |
| MEAN  | 704   | 394      | 90.0    | 153     | 12.4   | 143     | 133     | .000 | 447      | 764   | 776   | 718   |
| MAX   | 820   | 1100     | 931     | 870     | 81     | 834     | 829     | .00  | 1250     | 1110  | 1200  | 1230  |
| MIN   | 477   | -13      | .00     | .00     | .00    | .00     | .00     | .00  | .00      | 398   | 192   | 99    |
| AC-FT | 43290 | 23420    | 5530    | 9380    | 686    | 8770    | 7920    | .00  | 26620    | 46990 | 47730 | 42740 |

CAL YR 1985 TOTAL 95571.60 MEAN 262 MAX 1380 MIN -139 AC-FT 189600  
WTR YR 1986 TOTAL 132632.40 MEAN 363 MAX 1250 MIN -13 AC-FT 263100

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290769 CANAL 111 ABOVE S-18-C, NEAR FLORIDA CITY, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 2.65 | 2.52 | 2.37 | 2.29 | 2.20 | 1.86 | 2.32 | 1.72 | 2.01 | 2.57 | 2.48 | 2.28 |
| 2    | 2.63 | 2.52 | 2.37 | 2.27 | 2.18 | 1.85 | 2.32 | 1.70 | 1.96 | 2.58 | 2.48 | 2.23 |
| 3    | 2.62 | 2.50 | 2.37 | 2.25 | 2.16 | 1.81 | 2.32 | 1.68 | 1.91 | 2.47 | 2.47 | 2.19 |
| 4    | 2.62 | 2.50 | 2.35 | 2.23 | 2.13 | 1.80 | 2.23 | 1.66 | 1.88 | 2.46 | 2.49 | 2.34 |
| 5    | 2.63 | 2.49 | 2.38 | 2.23 | 2.10 | 1.81 | 2.11 | 1.67 | 1.81 | 2.45 | 2.58 | 2.59 |
| 6    | 2.63 | 2.48 | 2.42 | 2.21 | 2.08 | 1.79 | 2.17 | 1.64 | 1.74 | 2.45 | 2.57 | 2.58 |
| 7    | 2.65 | 2.46 | 2.42 | 2.22 | 2.06 | 1.76 | 2.19 | 1.63 | 1.99 | 2.44 | 2.57 | 2.60 |
| 8    | 2.65 | 2.45 | 2.42 | 2.28 | 2.04 | 1.74 | 2.17 | 1.68 | 2.29 | 2.44 | 2.55 | 2.66 |
| 9    | 2.64 | 2.44 | 2.41 | 2.53 | 2.02 | 1.72 | 2.16 | 1.77 | 2.30 | 2.43 | 2.31 | 2.59 |
| 10   | 2.62 | 2.42 | 2.41 | 2.39 | 2.00 | 1.86 | 2.14 | 1.76 | 2.22 | 2.44 | 2.22 | 2.54 |
| 11   | 2.55 | 2.42 | 2.38 | 2.48 | 2.02 | 2.05 | 2.10 | 1.72 | 2.24 | 2.43 | 2.36 | 2.49 |
| 12   | 2.47 | 2.37 | 2.36 | 2.43 | 2.16 | 2.06 | 2.06 | 1.69 | 2.23 | 2.44 | 2.49 | 2.51 |
| 13   | 2.53 | 2.32 | 2.34 | 2.40 | 2.14 | 2.09 | 2.24 | 1.66 | 2.26 | 2.42 | 2.50 | 2.59 |
| 14   | 2.54 | 2.38 | 2.35 | 2.29 | 2.09 | 2.07 | 2.24 | 1.64 | 2.22 | 2.34 | 2.50 | 2.60 |
| 15   | 2.54 | 2.43 | 2.34 | 2.27 | 2.06 | 2.07 | 2.28 | 1.61 | 2.24 | 2.37 | 2.50 | 2.60 |
| 16   | 2.52 | 2.22 | 2.33 | 2.42 | 2.03 | 2.20 | 2.26 | 1.59 | 2.25 | 2.34 | 2.54 | 2.51 |
| 17   | 2.49 | 2.20 | 2.35 | 2.47 | 2.00 | 2.21 | 2.23 | 1.57 | 2.27 | 2.32 | 2.67 | 2.51 |
| 18   | 2.49 | 2.30 | 2.34 | 2.43 | 2.09 | 2.35 | 2.20 | 1.56 | 2.29 | 2.35 | 2.70 | 2.53 |
| 19   | 2.50 | 2.38 | 2.33 | 2.43 | 2.17 | 2.35 | 2.17 | 1.53 | 2.38 | 2.20 | 2.68 | 2.44 |
| 20   | 2.67 | 2.57 | 2.31 | 2.42 | 2.15 | 2.22 | 2.12 | 1.54 | 2.41 | 2.22 | 2.55 | 2.32 |
| 21   | 2.68 | 2.52 | 2.29 | 2.40 | 2.12 | 2.25 | 2.09 | 1.60 | 2.53 | 2.26 | 2.49 | 2.30 |
| 22   | 2.69 | 2.46 | 2.26 | 2.39 | 2.10 | 2.26 | 2.07 | 1.78 | 2.56 | 2.20 | 2.48 | 2.39 |
| 23   | 2.67 | 2.45 | 2.24 | 2.38 | 2.07 | 2.23 | 2.03 | 2.39 | 2.60 | 2.21 | 2.43 | 2.45 |
| 24   | 2.67 | 2.43 | 2.25 | 2.36 | 2.03 | 2.20 | 1.98 | 2.49 | 2.56 | 2.38 | 2.40 | 2.50 |
| 25   | 2.66 | 2.39 | 2.36 | 2.34 | 1.97 | 2.15 | 1.94 | 2.54 | 2.48 | 2.40 | 2.37 | 2.49 |
| 26   | 2.66 | 2.28 | 2.34 | 2.32 | 1.91 | 2.23 | 1.90 | 2.54 | 2.38 | 2.38 | 2.35 | 2.39 |
| 27   | 2.67 | 2.25 | 2.31 | 2.31 | 1.85 | 2.26 | 1.86 | 2.54 | 2.52 | 2.38 | 2.32 | 2.37 |
| 28   | 2.68 | 2.27 | 2.32 | 2.28 | 1.81 | 2.30 | 1.82 | 2.51 | 2.60 | 2.45 | 2.28 | 2.34 |
| 29   | 2.67 | 2.36 | 2.35 | 2.24 | ---  | 2.32 | 1.79 | 2.43 | 2.60 | 2.53 | 2.25 | 2.35 |
| 30   | 2.65 | 2.37 | 2.33 | 2.23 | ---  | 2.33 | 1.75 | 2.18 | 2.59 | 2.51 | 2.24 | 2.49 |
| 31   | 2.56 | ---  | 2.30 | 2.21 | ---  | 2.33 | ---  | 2.09 | ---  | 2.49 | 2.29 | ---  |
| MEAN | 2.61 | 2.41 | 2.35 | 2.34 | 2.06 | 2.08 | 2.11 | 1.87 | 2.28 | 2.40 | 2.46 | 2.46 |
| MAX  | 2.69 | 2.57 | 2.42 | 2.53 | 2.20 | 2.35 | 2.32 | 2.54 | 2.60 | 2.58 | 2.70 | 2.66 |
| MIN  | 2.47 | 2.20 | 2.24 | 2.21 | 1.81 | 1.72 | 1.75 | 1.53 | 1.74 | 2.20 | 2.22 | 2.19 |

|             |           |          |          |
|-------------|-----------|----------|----------|
| CAL YR 1985 | MEAN 2.14 | MAX 2.72 | MIN 1.04 |
| WTR YR 1986 | MEAN 2.29 | MAX 2.70 | MIN 1.53 |

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

217

252523080352500 LEVEE 31 W CANAL AT S-332, NEAR FLORIDA CITY, FL

LOCATION.--Lat 25°25'23", long 80°35'25", in SE¼ sec.35, T.57 S., R.37 E., Dade County, Hydrologic Unit 03090202, at control structure 332.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1983 to current year.

GAGE.--Digital water-stage recorders. Graphic dual stage recorder (South Florida Water Management). Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by structure 332. Discharge computed from relation between pump RPM and discharge.

COOPERATION.--Graphic upstream and downstream stage record, pump operation logs and culvert operation provided by South Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 166 ft<sup>3</sup>/s, Nov. 10, 11, 14, 17, 19, 20, 24, 26, 27, 1984; maximum gage height, 5.09 ft July 22, 1984; no flow for many days each year; minimum gage height, 1.65 ft May 9, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 127 ft<sup>3</sup>/s, Oct. 3, 4, 8, 9, 14-18, 22-25, 29-31, Nov. 1-3; maximum gage height, 4.84 ft Oct. 6; no flow for many days during the year; minimum gage height, 2.74 ft Feb. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT     | NOV     | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN     | JUL     | AUG     | SEP     |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 1     | 95      | 127     | 75     | 14     | 14     | 4.6    | 4.6    | 4.6    | 4.6     | 104     | 50      | .00     |
| 2     | 92      | 127     | 75     | 14     | 9.1    | 4.6    | 4.6    | 2.9    | 4.6     | 78      | 50      | 19      |
| 3     | 127     | 127     | 42     | 14     | 8.7    | 4.6    | 4.6    | .00    | 4.6     | 125     | 50      | 68      |
| 4     | 127     | 87      | 14     | 14     | 9.1    | 4.6    | 4.2    | .00    | 65      | 125     | 50      | 76      |
| 5     | 79      | 54      | 14     | 14     | 8.7    | 4.6    | 4.6    | 3.1    | 125     | 125     | 50      | 64      |
| 6     | .00     | 75      | 14     | 14     | 9.1    | 4.6    | 4.6    | 4.6    | 125     | 125     | 50      | 95      |
| 7     | 79      | 75      | 14     | 14     | 9.1    | 2.1    | 4.6    | 4.6    | 52      | 125     | 38      | 95      |
| 8     | 127     | 75      | 14     | 14     | 9.1    | .00    | 4.2    | 4.6    | 62      | 125     | 50      | 95      |
| 9     | 127     | 75      | 14     | 14     | 9.1    | .00    | 4.6    | 4.6    | 84      | 125     | 50      | 95      |
| 10    | 63      | 9.4     | 14     | 11     | 9.1    | 2.9    | 4.6    | 4.6    | 125     | 125     | 50      | 64      |
| 11    | 74      | .00     | 14     | 3.4    | 9.1    | 4.6    | 4.6    | 4.6    | 125     | 125     | 50      | 95      |
| 12    | 48      | 41      | 14     | .00    | 9.1    | 4.6    | 4.6    | 4.6    | 125     | 125     | 50      | 95      |
| 13    | 79      | 75      | 14     | 7.4    | 9.1    | 4.6    | 4.6    | 4.6    | 76      | 125     | 48      | 95      |
| 14    | 127     | 75      | 14     | 14     | 9.1    | 4.6    | 4.6    | 4.6    | .00     | 125     | 36      | 95      |
| 15    | 127     | 75      | 14     | 14     | 9.1    | 4.6    | 4.6    | 4.6    | 31      | 125     | 25      | 95      |
| 16    | 127     | 75      | 14     | 14     | 9.1    | 4.6    | 4.6    | 4.6    | 125     | 125     | .00     | 95      |
| 17    | 127     | 75      | 14     | 14     | 9.1    | 4.6    | 4.6    | 4.6    | 125     | 125     | .00     | 95      |
| 18    | 127     | 75      | 14     | 14     | 9.1    | 4.6    | 4.6    | 4.6    | 125     | 125     | 29      | 95      |
| 19    | 106     | 35      | 14     | 14     | 8.7    | 4.6    | 4.6    | 4.6    | 125     | 125     | 23      | 95      |
| 20    | .00     | 75      | 14     | 14     | 9.1    | 4.6    | .80    | 4.6    | 125     | 125     | 27      | 95      |
| 21    | 68      | 54      | 14     | 14     | 9.1    | 4.6    | 2.9    | 4.6    | 84      | 125     | 34      | 95      |
| 22    | 127     | 44      | .00    | 14     | 9.1    | 4.6    | 4.6    | 3.3    | 37      | 125     | 38      | 95      |
| 23    | 127     | 75      | 7.4    | 14     | 9.1    | 4.6    | 4.4    | 2.5    | 52      | 89      | 50      | 95      |
| 24    | 127     | 75      | 14     | 14     | 9.1    | 4.6    | 4.6    | 4.6    | 106     | 31      | 17      | 95      |
| 25    | 127     | 75      | 14     | 14     | 9.1    | 4.6    | 4.6    | 4.6    | 61      | 84      | 34      | 95      |
| 26    | 48      | 75      | 14     | 7.4    | 6.4    | 4.6    | 4.6    | 4.6    | 35      | 5.2     | 46      | 83      |
| 27    | .00     | 75      | 14     | 8.0    | .00    | 4.6    | 4.6    | 4.6    | 5.2     | .00     | 44      | 95      |
| 28    | 68      | 75      | 14     | 14     | 3.1    | 4.6    | 4.6    | 4.6    | .00     | 89      | 34      | 95      |
| 29    | 127     | 75      | 14     | 14     | ---    | 4.6    | 4.6    | 4.6    | .00     | 125     | 50      | 95      |
| 30    | 127     | 75      | 14     | 14     | ---    | 4.6    | 4.6    | 4.6    | 84      | 125     | 46      | 47      |
| 31    | 127     | ---     | 14     | 14     | ---    | 4.6    | ---    | 4.6    | ---     | 78      | .00     | ---     |
| TOTAL | 2931.00 | 2130.40 | 563.40 | 387.20 | 240.70 | 129.20 | 131.50 | 126.80 | 2098.00 | 3308.20 | 1169.00 | 2511.00 |
| MEAN  | 94.5    | 71.0    | 18.2   | 12.5   | 8.60   | 4.17   | 4.38   | 4.09   | 69.9    | 107     | 37.7    | 83.7    |
| MAX   | 127     | 127     | 75     | 14     | 14     | 4.6    | 4.6    | 4.6    | 125     | 125     | 50      | 95      |
| MIN   | .00     | .00     | .00    | .00    | .00    | .00    | .80    | .00    | .00     | .00     | .00     | .00     |
| AC-FT | 5810    | 4230    | 1120   | 768    | 477    | 256    | 261    | 252    | 4160    | 6560    | 2320    | 4980    |

CAL YR 1985 TOTAL 15476.30 MEAN 42.4 MAX 127 MIN .00 AC-FT 30700  
WTR YR 1986 TOTAL 15726.40 MEAN 43.1 MAX 127 MIN .00 AC-FT 31190

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT  | NOV  | DEC      | JAN      | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------------|------|------|----------|----------|------|------|------|------|------|------|------|------|
| 1           | 4.40 | 3.42 | 3.32     | 3.35     | 3.15 | 2.93 | 3.18 | 3.27 | 3.42 | 3.71 | 3.47 | 3.50 |
| 2           | 4.30 | 3.41 | 3.40     | 3.33     | 3.13 | 2.91 | 3.17 | 3.27 | 3.39 | 3.78 | 3.44 | 3.53 |
| 3           | 4.30 | 3.39 | 3.56     | 3.29     | 3.11 | 2.85 | 3.19 | 3.27 | 3.40 | 3.75 | 3.39 | 4.01 |
| 4           | 4.46 | 3.51 | 3.56     | 3.26     | 3.08 | 2.87 | 3.27 | 3.33 | 3.41 | 3.82 | 3.57 | 4.41 |
| 5           | 4.65 | 3.34 | 3.62     | 3.23     | 3.04 | 2.92 | 3.36 | 3.41 | 3.46 | 3.81 | 3.77 | 4.50 |
| 6           | 4.73 | 3.41 | 3.61     | 3.19     | 3.00 | 2.93 | 3.39 | 3.44 | 3.43 | 3.83 | 3.63 | 4.21 |
| 7           | 4.75 | 3.58 | 3.22     | 3.25     | 2.97 | 2.94 | 3.46 | 3.48 | 3.79 | 3.81 | 3.54 | 4.23 |
| 8           | 4.55 | 3.56 | 3.08     | 3.56     | 2.94 | 2.93 | 3.47 | 3.51 | 4.01 | 3.79 | 3.46 | 4.21 |
| 9           | 4.35 | 3.54 | 3.10     | 3.31     | 2.92 | 2.92 | 3.45 | 3.66 | 4.13 | 3.86 | 3.50 | 3.99 |
| 10          | 4.31 | 3.62 | 3.23     | 3.34     | 2.88 | 3.11 | 3.41 | 3.66 | 3.95 | 3.97 | 3.54 | 3.83 |
| 11          | 4.16 | 3.63 | 3.25     | 3.32     | 2.85 | 2.96 | 3.31 | 3.62 | 3.95 | 3.88 | 3.52 | 3.71 |
| 12          | 4.01 | 3.54 | 3.24     | 3.19     | 2.89 | 3.31 | 3.21 | 3.57 | 3.91 | 3.81 | 3.47 | 3.64 |
| 13          | 3.90 | 3.36 | 3.23     | 3.17     | 2.89 | 3.47 | 3.39 | 3.53 | 4.06 | 3.76 | 3.44 | 3.60 |
| 14          | 3.68 | 3.35 | 3.24     | 3.21     | 2.84 | 3.34 | 3.29 | 3.47 | 4.21 | 3.79 | 3.42 | 3.57 |
| 15          | 3.55 | 3.45 | 3.24     | 3.33     | 2.82 | 3.22 | 3.45 | 3.42 | 4.16 | 3.73 | 3.40 | 3.53 |
| 16          | 3.47 | 3.57 | 3.23     | 3.41     | 2.80 | 3.27 | 3.44 | 3.41 | 4.15 | 3.69 | 3.51 | 3.54 |
| 17          | 3.47 | 3.55 | 3.30     | 3.33     | 2.77 | 3.42 | 3.38 | 3.39 | 4.12 | 3.74 | 3.87 | 3.61 |
| 18          | 3.47 | 3.41 | 3.29     | 3.45     | 2.96 | 3.46 | 3.32 | 3.34 | 4.01 | 3.87 | 3.89 | 3.61 |
| 19          | 3.50 | 3.46 | 3.26     | 3.50     | 3.20 | 3.31 | 3.26 | 3.29 | 4.11 | 3.91 | 3.88 | 3.66 |
| 20          | 3.78 | 3.51 | 3.23     | 3.47     | 3.15 | 3.39 | 3.21 | 3.65 | 4.08 | 3.89 | 3.82 | 3.59 |
| 21          | 3.49 | 3.31 | 3.19     | 3.40     | 3.11 | 3.43 | 3.15 | 3.83 | 3.95 | 3.97 | 3.76 | 3.80 |
| 22          | 3.29 | 3.42 | 3.18     | 3.36     | 3.07 | 3.19 | 3.10 | 3.87 | 4.30 | 3.93 | 3.75 | 4.00 |
| 23          | 3.26 | 3.37 | 3.15     | 3.35     | 3.03 | 3.06 | 3.02 | 3.99 | 4.26 | 3.98 | 3.67 | 3.92 |
| 24          | 3.39 | 3.31 | 3.19     | 3.35     | 2.99 | 3.14 | 2.96 | 4.03 | 3.87 | 4.07 | 3.65 | 3.87 |
| 25          | 3.38 | 3.32 | 3.51     | 3.37     | 2.93 | 3.31 | 2.93 | 3.91 | 3.82 | 4.01 | 3.64 | 3.79 |
| 26          | 3.44 | 3.43 | 3.45     | 3.37     | 2.86 | 3.54 | 3.03 | 3.77 | 3.94 | 4.32 | 3.63 | 3.83 |
| 27          | 3.62 | 3.46 | 3.38     | 3.34     | 2.85 | 3.21 | 3.04 | 3.65 | 4.10 | 4.30 | 3.56 | 3.76 |
| 28          | 3.54 | 3.41 | 3.38     | 3.29     | 2.89 | 3.09 | 3.04 | 3.59 | 3.95 | 3.94 | 3.53 | 3.79 |
| 29          | 3.43 | 3.38 | 3.43     | 3.21     | ---  | 2.99 | 3.17 | 3.51 | 3.89 | 3.62 | 3.48 | 3.77 |
| 30          | 3.44 | 3.35 | 3.42     | 3.18     | ---  | 2.95 | 3.22 | 3.49 | 3.77 | 3.52 | 3.45 | 3.86 |
| 31          | 3.40 | ---  | 3.38     | 3.17     | ---  | 3.06 | ---  | 3.47 | ---  | 3.49 | 3.56 | ---  |
| MEAN        | 3.85 | 3.45 | 3.32     | 3.32     | 2.97 | 3.14 | 3.24 | 3.55 | 3.90 | 3.85 | 3.59 | 3.83 |
| MAX         | 4.75 | 3.63 | 3.62     | 3.56     | 3.20 | 3.54 | 3.47 | 4.03 | 4.30 | 4.32 | 3.89 | 4.50 |
| MIN         | 3.26 | 3.31 | 3.08     | 3.17     | 2.77 | 2.85 | 2.93 | 3.27 | 3.39 | 3.49 | 3.39 | 3.50 |
|             |      |      |          |          |      |      |      |      |      |      |      |      |
| CAL YR 1985 | MEAN | 3.42 | MAX 4.75 | MIN 1.38 |      |      |      |      |      |      |      |      |
| WTR YR 1986 | MEAN | 3.50 | MAX 4.75 | MIN 2.77 |      |      |      |      |      |      |      |      |



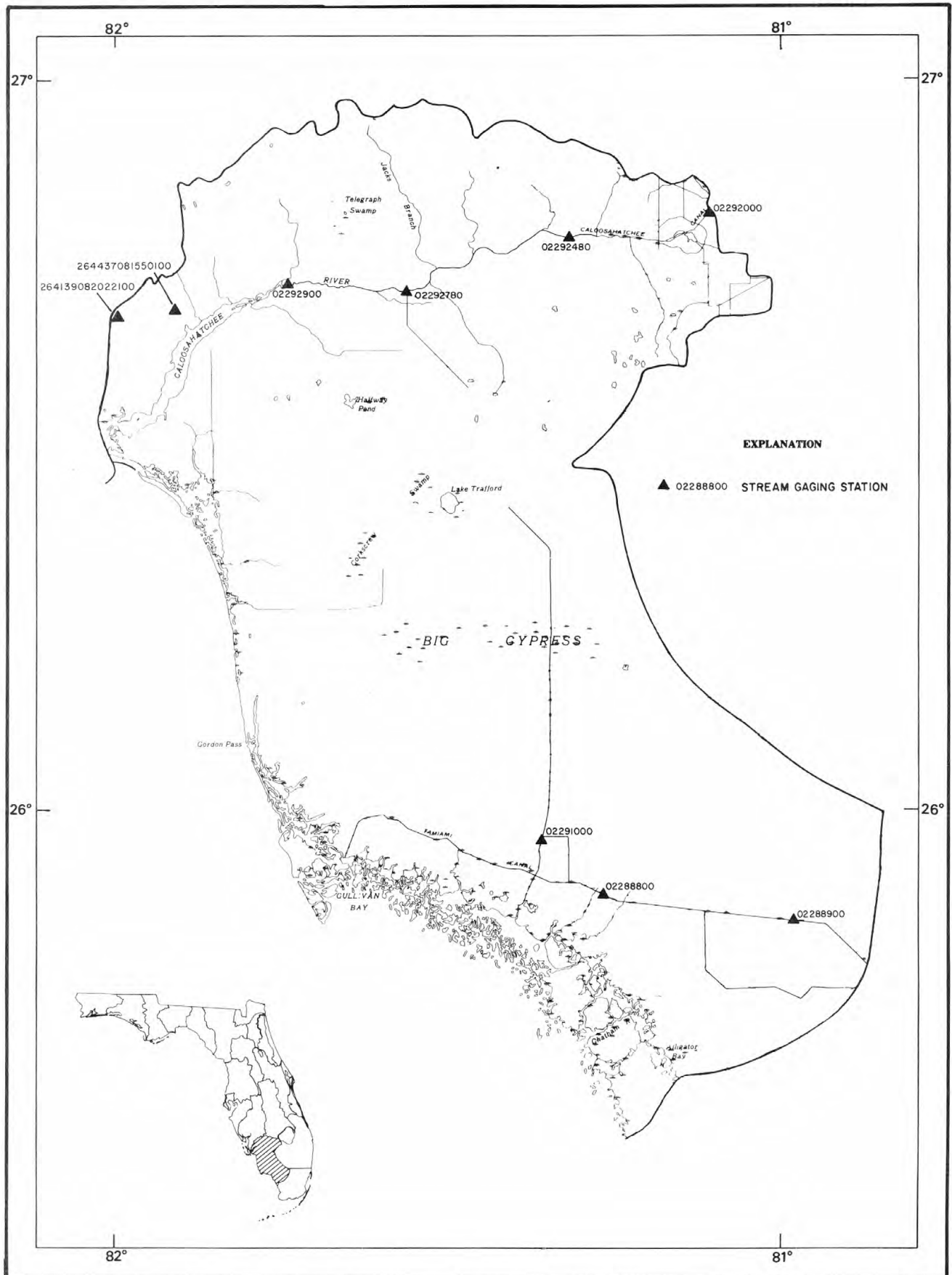


Figure 12. Location of gaging stations in the Big Cypress Swamp and southwestern coastal area; the Caloosahatchee River; and Charlotte Harbor and the coastal area

## BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02291000 BARRON RIVER CANAL NEAR EVERGLADES, FL

LOCATION.--Lat 25°57'28" , long 81°21'19", in NW¼ sec.7, T.52 S., R.30 E., Collier County, Hydrologic Unit 03090204, on right bank 40 ft upstream from control structure, 0.7 mi north of Copeland, 7 mi north of town of Everglades, 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. Records prior to January 1952 are available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (State Department of Transportation bench mark). Prior to Jan. 24, 1952, nonrecording gage.

REMARKS.--No estimated daily discharges. Records poor. Flow regulated by operation of control structure at, above, and below station, and is occasionally affected by tide. Overbank flow not included in discharge figures.

AVERAGE DISCHARGE.--34 years (water years 1952-86), 102 ft<sup>3</sup>/s, 73,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 292 ft<sup>3</sup>/s Sept. 25, 1962; maximum gage height, 6.57 ft Sept. 4, 5, 1983; no flow many days; minimum gage height, 0.21 ft May 18, 1962.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of October 1947 reached a stage of about 7 ft, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 209 ft<sup>3</sup>/s Aug. 27; gage height, 5.62 ft; maximum gage height, 6.00 ft June 30; no flow May 16 to June 8; minimum gage height, 2.00 ft May 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT  | NOV  | DEC   | JAN  | FEB  | MAR  | APR  | MAY    | JUN     | JUL   | AUG   | SEP   |
|-------|------|------|-------|------|------|------|------|--------|---------|-------|-------|-------|
| 1     | 171  | 156  | 81    | 27   | 45   | 31   | 77   | 15     | .00     | 207   | 173   | 204   |
| 2     | 169  | 153  | 78    | 28   | 43   | 29   | 70   | 14     | .00     | 205   | 173   | 204   |
| 3     | 168  | 150  | 60    | 29   | 41   | 27   | 62   | 13     | .00     | 203   | 171   | 203   |
| 4     | 168  | 164  | 33    | 28   | 39   | 25   | 54   | 13     | .00     | 201   | 171   | 203   |
| 5     | 170  | 158  | 33    | 28   | 37   | 24   | 47   | 12     | .00     | 199   | 171   | 204   |
| 6     | 170  | 154  | 29    | 27   | 36   | 23   | 41   | 11     | .00     | 197   | 171   | 204   |
| 7     | 168  | 150  | 26    | 27   | 34   | 22   | 35   | 11     | .00     | 195   | 174   | 204   |
| 8     | 166  | 146  | 24    | 39   | 32   | 21   | 31   | 9.7    | .00     | 195   | 181   | 205   |
| 9     | 164  | 143  | 22    | 44   | 31   | 20   | 27   | 9.1    | .02     | 196   | 182   | 205   |
| 10    | 162  | 140  | 20    | 57   | 29   | 20   | 23   | 8.8    | .63     | 195   | 183   | 205   |
| 11    | 161  | 137  | 18    | 68   | 27   | 20   | 19   | 8.5    | 2.7     | 192   | 185   | 205   |
| 12    | 163  | 133  | 11    | 69   | 27   | 19   | 15   | 8.0    | 4.4     | 188   | 185   | 206   |
| 13    | 167  | 130  | 7.4   | 69   | 26   | 17   | 36   | 7.6    | 7.3     | 185   | 185   | 207   |
| 14    | 166  | 126  | 16    | 68   | 24   | 19   | 60   | 7.4    | 18      | 182   | 184   | 207   |
| 15    | 164  | 123  | 18    | 68   | 23   | 30   | 54   | .16    | 32      | 179   | 184   | 207   |
| 16    | 163  | 119  | 17    | 69   | 21   | 67   | 47   | .00    | 67      | 176   | 184   | 206   |
| 17    | 161  | 115  | 19    | 71   | 20   | 81   | 41   | .00    | 109     | 173   | 185   | 205   |
| 18    | 159  | 111  | 19    | 72   | 36   | 81   | 35   | .00    | 117     | 172   | 197   | 203   |
| 19    | 160  | 112  | 18    | 73   | 42   | 80   | 31   | .00    | 123     | 174   | 205   | 201   |
| 20    | 161  | 115  | 18    | 70   | 39   | 77   | 28   | .00    | 129     | 175   | 205   | 200   |
| 21    | 159  | 108  | 18    | 67   | 36   | 97   | 26   | .00    | 134     | 173   | 204   | 200   |
| 22    | 158  | 111  | 18    | 64   | 34   | 98   | 25   | .00    | 137     | 172   | 203   | 199   |
| 23    | 156  | 106  | 18    | 62   | 32   | 89   | 25   | .00    | 155     | 173   | 201   | 197   |
| 24    | 154  | 100  | 19    | 61   | 32   | 82   | 23   | .00    | 173     | 174   | 203   | 197   |
| 25    | 151  | 97   | 21    | 59   | 30   | 77   | 22   | .00    | 175     | 176   | 208   | 196   |
| 26    | 149  | 92   | 21    | 59   | 28   | 88   | 21   | .00    | 177     | 178   | 209   | 194   |
| 27    | 155  | 89   | 21    | 58   | 27   | 114  | 20   | .00    | 185     | 176   | 209   | 192   |
| 28    | 156  | 86   | 24    | 54   | 27   | 105  | 19   | .00    | 192     | 175   | 209   | 190   |
| 29    | 154  | 83   | 27    | 51   | ---  | 97   | 18   | .00    | 198     | 173   | 207   | 189   |
| 30    | 152  | 83   | 27    | 49   | ---  | 89   | 16   | .00    | 208     | 172   | 205   | 188   |
| 31    | 151  | ---  | 26    | 47   | ---  | 83   | ---  | .00    | ---     | 171   | 204   | ---   |
| TOTAL | 4996 | 3690 | 807.4 | 1662 | 898  | 1752 | 1048 | 148.26 | 2344.05 | 5702  | 5911  | 6030  |
| MEAN  | 161  | 123  | 26.0  | 53.6 | 32.1 | 56.5 | 34.9 | 4.78   | 78.1    | 184   | 191   | 201   |
| MAX   | 171  | 164  | 81    | 73   | 45   | 114  | 77   | 15     | 208     | 207   | 209   | 207   |
| MIN   | 149  | 83   | 7.4   | 27   | 20   | 17   | 15   | .00    | .00     | 171   | 171   | 188   |
| AC-FT | 9910 | 7320 | 1600  | 3300 | 1780 | 3480 | 2080 | 294    | 4650    | 11310 | 11720 | 11960 |

CAL YR 1985 TOTAL 24439.97 MEAN 67.0 MAX 199 MIN .00 AC-FT 48480  
WTR YR 1986 TOTAL 34988.71 MEAN 95.9 MAX 209 MIN .00 AC-FT 69400

## BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

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02291000 BARRON RIVER CANAL NEAR EVERGLADES, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 5.27 | 4.95 | 4.27 | 3.29 | 3.75 | 3.20 | 4.33 | 2.28 | 2.07 | 5.98 | 5.29 | 5.51 |
| 2    | 5.24 | 4.88 | 4.21 | 3.28 | 3.71 | 3.16 | 4.18 | 2.25 | 2.10 | 5.93 | 5.28 | 5.49 |
| 3    | 5.23 | 4.82 | 4.41 | 3.26 | 3.66 | 3.09 | 4.01 | 2.22 | 2.17 | 5.88 | 5.26 | 5.47 |
| 4    | 5.23 | 5.07 | 4.57 | 3.24 | 3.61 | 3.05 | 3.83 | 2.20 | 2.25 | 5.84 | 5.25 | 5.47 |
| 5    | 5.26 | 4.96 | 4.57 | 3.22 | 3.57 | 3.02 | 3.67 | 2.18 | 2.27 | 5.80 | 5.26 | 5.50 |
| 6    | 5.26 | 4.86 | 4.47 | 3.20 | 3.53 | 2.98 | 3.52 | 2.16 | 2.27 | 5.76 | 5.26 | 5.51 |
| 7    | 5.23 | 4.77 | 4.38 | 3.21 | 3.49 | 2.95 | 3.39 | 2.13 | 2.27 | 5.73 | 5.28 | 5.52 |
| 8    | 5.18 | 4.67 | 4.32 | 3.61 | 3.45 | 2.92 | 3.26 | 2.10 | 2.34 | 5.72 | 5.37 | 5.56 |
| 9    | 5.13 | 4.60 | 4.27 | 3.74 | 3.40 | 2.88 | 3.15 | 2.08 | 2.45 | 5.75 | 5.40 | 5.57 |
| 10   | 5.09 | 4.54 | 4.21 | 4.04 | 3.36 | 2.90 | 3.04 | 2.07 | 2.60 | 5.73 | 5.42 | 5.59 |
| 11   | 5.06 | 4.48 | 4.14 | 4.30 | 3.31 | 2.88 | 2.91 | 2.06 | 2.76 | 5.66 | 5.46 | 5.60 |
| 12   | 5.12 | 4.40 | 3.93 | 4.31 | 3.31 | 2.84 | 2.80 | 2.04 | 2.82 | 5.58 | 5.46 | 5.63 |
| 13   | 5.20 | 4.34 | 3.78 | 4.30 | 3.27 | 2.82 | 3.20 | 2.02 | 2.91 | 5.52 | 5.45 | 5.65 |
| 14   | 5.18 | 4.27 | 3.84 | 4.28 | 3.22 | 2.88 | 3.44 | 2.01 | 3.25 | 5.45 | 5.44 | 5.67 |
| 15   | 5.14 | 4.21 | 3.78 | 4.28 | 3.18 | 3.17 | 3.29 | 2.05 | 3.59 | 5.38 | 5.43 | 5.68 |
| 16   | 5.10 | 4.14 | 3.71 | 4.31 | 3.14 | 4.07 | 3.14 | 2.07 | 4.37 | 5.32 | 5.45 | 5.67 |
| 17   | 5.07 | 4.06 | 3.71 | 4.35 | 3.09 | 4.38 | 3.00 | 2.13 | 5.23 | 5.26 | 5.45 | 5.66 |
| 18   | 5.03 | 3.98 | 3.66 | 4.38 | 3.39 | 4.38 | 2.85 | 2.24 | 5.34 | 5.24 | 5.57 | 5.63 |
| 19   | 5.03 | 4.13 | 3.61 | 4.40 | 3.49 | 4.35 | 2.73 | 2.27 | 5.41 | 5.28 | 5.63 | 5.60 |
| 20   | 5.06 | 4.85 | 3.56 | 4.33 | 3.40 | 4.30 | 2.65 | 2.27 | 5.48 | 5.30 | 5.63 | 5.59 |
| 21   | 5.03 | 4.82 | 3.52 | 4.26 | 3.34 | 4.71 | 2.59 | 2.27 | 5.54 | 5.26 | 5.60 | 5.60 |
| 22   | 4.99 | 4.88 | 3.46 | 4.20 | 3.29 | 4.74 | 2.57 | 2.25 | 5.56 | 5.24 | 5.57 | 5.59 |
| 23   | 4.95 | 4.78 | 3.42 | 4.16 | 3.24 | 4.56 | 2.56 | 2.24 | 5.30 | 5.27 | 5.54 | 5.56 |
| 24   | 4.90 | 4.66 | 3.42 | 4.12 | 3.23 | 4.42 | 2.53 | 2.22 | 5.20 | 5.28 | 5.54 | 5.56 |
| 25   | 4.85 | 4.59 | 3.44 | 4.08 | 3.19 | 4.32 | 2.49 | 2.19 | 5.25 | 5.35 | 5.59 | 5.57 |
| 26   | 4.80 | 4.51 | 3.38 | 4.08 | 3.14 | 4.54 | 2.46 | 2.17 | 5.30 | 5.38 | 5.60 | 5.53 |
| 27   | 4.92 | 4.43 | 3.35 | 4.06 | 3.10 | 5.07 | 2.43 | 2.14 | 5.49 | 5.34 | 5.61 | 5.49 |
| 28   | 4.95 | 4.37 | 3.38 | 3.97 | 3.11 | 4.90 | 2.39 | 2.13 | 5.63 | 5.31 | 5.60 | 5.47 |
| 29   | 4.90 | 4.32 | 3.43 | 3.90 | ---  | 4.73 | 2.36 | 2.11 | 5.77 | 5.29 | 5.57 | 5.46 |
| 30   | 4.86 | 4.31 | 3.38 | 3.85 | ---  | 4.58 | 2.32 | 2.10 | 5.98 | 5.26 | 5.53 | 5.44 |
| 31   | 4.85 | ---  | 3.32 | 3.80 | ---  | 4.46 | ---  | 2.08 | ---  | 5.25 | 5.50 | ---  |
| MEAN | 5.07 | 4.56 | 3.84 | 3.93 | 3.36 | 3.78 | 3.04 | 2.15 | 3.97 | 5.49 | 5.46 | 5.56 |
| MAX  | 5.27 | 5.07 | 4.57 | 4.40 | 3.75 | 5.07 | 4.33 | 2.28 | 5.98 | 5.98 | 5.63 | 5.68 |
| MIN  | 4.80 | 3.98 | 3.32 | 3.20 | 3.09 | 2.82 | 2.32 | 2.01 | 2.07 | 5.24 | 5.25 | 5.44 |

CAL YR 1985 MEAN 3.09 MAX 5.98 MIN .84  
WTR YR 1986 MEAN 4.19 MAX 5.98 MIN 2.01

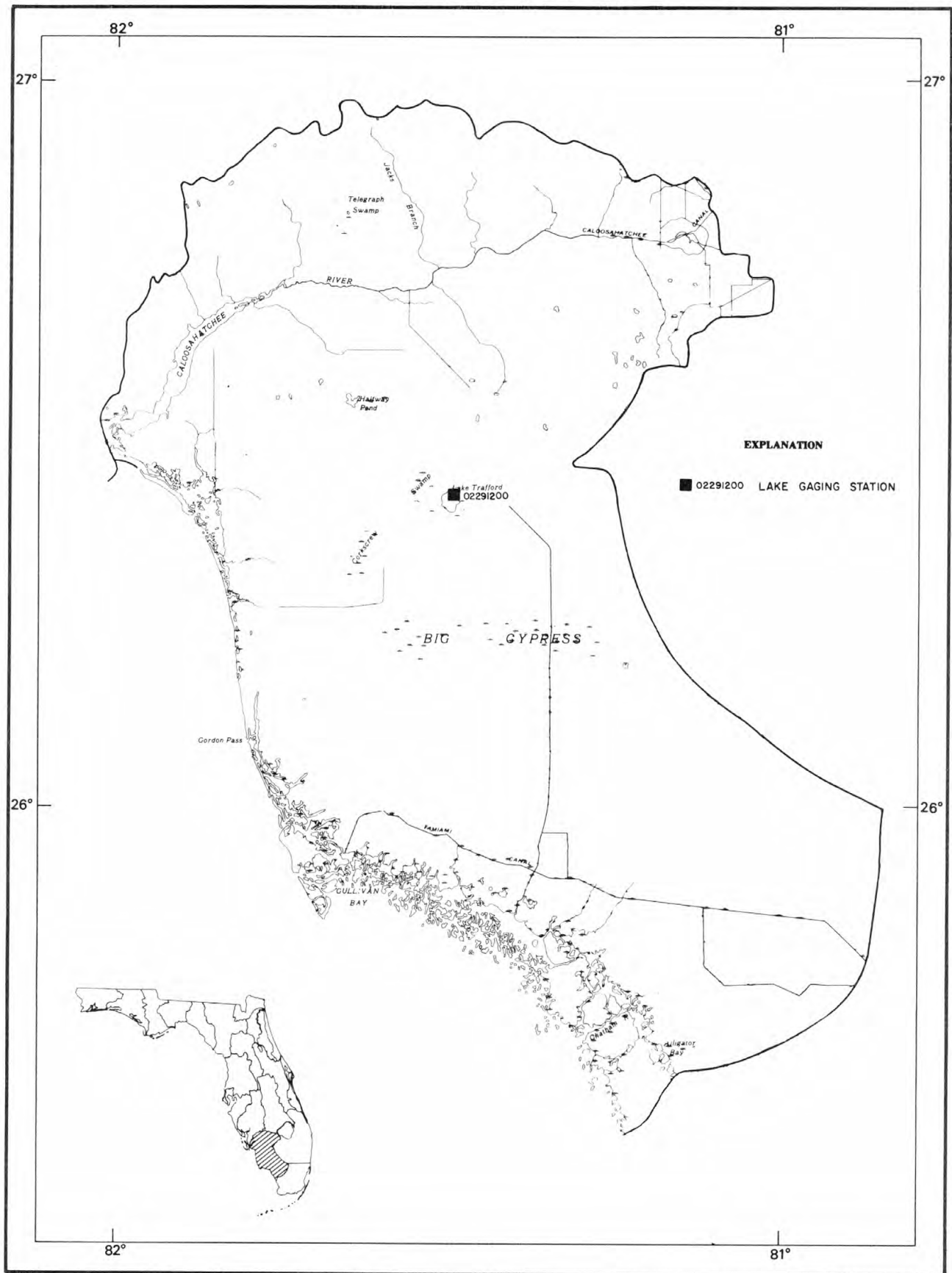


Figure 13. Location of the lake gaging station in the Big Cypress Swamp and southeastern coastal area; and the Caloosahatchee River

## EVERGLADES AND SOUTHEASTERN COASTAL AREA

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## 02291200 LAKE TRAFFORD NEAR IMMOKALEE, FL

LOCATION.--Lat 26°26'08", long 81°29'25", in NW¼ sec.35, T.46 S., R.28 E., Collier County, Hydrologic Unit 03090202, on north side of lake, on east bank of stub canal at Pepper's Camp, and 4.5 mi west of Immokalee.

SURFACE AREA.--1,479 acres.

DRAINAGE AREA.--30 mi<sup>2</sup>, approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 16.43 ft National Geodetic Vertical Datum of 1929. Prior to Oct. 6, 1960, at several sites in the immediate vicinity at same datum. May 15, 1962, to Sept. 30, 1962, auxiliary nonrecording gage in canal at county boat landing, 0.3 mi southeast. Oct. 1, 1962, to Nov. 25, 1968, nonrecording gage at same site and datum. Gage readings have been reduced to elevations NGVD.

REMARKS.--Lake is landlocked except above an elevation of about 21 ft, when there is overflow to the south into Corkscrew Swamp. Records estimated Apr. 2 to July 8, 1981. Extremes may have been estimated during missing record.

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

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 20.28 ft Oct. 6, 8; minimum, 18.51 ft May 31, June 7.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 20.07 | 20.08 | 19.88 | 19.61 | 19.51 | 19.64 | 19.71 | 19.08 | 18.53 | 19.02 | 19.58 | 20.11 |
| 2           | 20.09 | 20.06 | 19.84 | 19.60 | 19.50 | 19.64 | 19.69 | 19.05 | 18.59 | 19.04 | 19.58 | 20.21 |
| 3           | 20.21 | 20.05 | 19.79 | 19.60 | 19.51 | 19.63 | 19.68 | 19.03 | 18.58 | 19.05 | 19.59 | 20.21 |
| 4           | 20.25 | 20.04 | 19.78 | 19.60 | 19.52 | 19.63 | 19.66 | 19.00 | 18.55 | 19.06 | 19.61 | 20.20 |
| 5           | 20.27 | 20.02 | 19.78 | 19.58 | 19.52 | 19.62 | 19.63 | 18.99 | 18.53 | 19.06 | 19.62 | 20.19 |
| 6           | 20.28 | 20.00 | 19.77 | 19.56 | 19.51 | 19.60 | 19.62 | 18.97 | 18.52 | 19.07 | 19.61 | 20.18 |
| 7           | 20.27 | 19.97 | 19.75 | 19.56 | 19.50 | 19.60 | 19.60 | 18.95 | 18.51 | 19.10 | 19.66 | 20.17 |
| 8           | 20.28 | 19.96 | 19.74 | 19.56 | 19.49 | 19.57 | 19.58 | 18.94 | 18.54 | 19.18 | 19.75 | 20.17 |
| 9           | 20.27 | 19.96 | 19.73 | 19.59 | 19.48 | 19.57 | 19.56 | 18.92 | 18.65 | 19.20 | 19.76 | 20.18 |
| 10          | 20.27 | 19.95 | 19.73 | 19.65 | 19.48 | 19.67 | 19.52 | 18.87 | 18.64 | 19.23 | 19.79 | 20.18 |
| 11          | 20.26 | 19.94 | 19.72 | 19.65 | 19.47 | 19.78 | 19.51 | 18.84 | 18.62 | 19.25 | 19.80 | 20.17 |
| 12          | 20.26 | 19.93 | 19.72 | 19.65 | 19.44 | 19.79 | 19.49 | 18.83 | 18.60 | 19.26 | 19.83 | 20.17 |
| 13          | 20.24 | 19.92 | 19.71 | 19.64 | 19.41 | 19.81 | 19.50 | 18.81 | 18.60 | 19.27 | 19.84 | 20.15 |
| 14          | 20.23 | 19.91 | 19.72 | 19.63 | 19.40 | 19.83 | 19.47 | 18.79 | 18.60 | 19.28 | 19.91 | 20.13 |
| 15          | 20.22 | 19.90 | 19.71 | 19.63 | 19.39 | 19.82 | 19.46 | 18.79 | 18.61 | 19.28 | 19.98 | 20.11 |
| 16          | 20.20 | 19.89 | 19.70 | 19.62 | 19.38 | 19.83 | 19.44 | 18.78 | 18.60 | 19.28 | 19.97 | 20.09 |
| 17          | 20.18 | 19.87 | 19.70 | 19.62 | 19.37 | 19.83 | 19.41 | 18.76 | 18.60 | 19.27 | 19.97 | 20.07 |
| 18          | 20.16 | 19.84 | 19.70 | 19.62 | 19.60 | 19.83 | 19.37 | 18.74 | 18.59 | 19.26 | 19.98 | 20.06 |
| 19          | 20.17 | 19.84 | 19.68 | 19.63 | 19.66 | 19.84 | 19.35 | 18.73 | 18.62 | 19.27 | 20.00 | 20.03 |
| 20          | 20.19 | 19.90 | 19.67 | 19.62 | 19.66 | 19.85 | 19.33 | 18.73 | 18.72 | 19.32 | 20.04 | 20.02 |
| 21          | 20.18 | 19.91 | 19.67 | 19.61 | 19.66 | 19.82 | 19.32 | 18.72 | 18.75 | 19.32 | 20.12 | 20.03 |
| 22          | 20.17 | 19.93 | 19.65 | 19.60 | 19.66 | 19.80 | 19.29 | 18.70 | 18.76 | 19.31 | 20.13 | 20.01 |
| 23          | 20.15 | 19.93 | 19.65 | 19.60 | 19.66 | 19.79 | 19.25 | 18.70 | 18.80 | 19.29 | 20.13 | 20.02 |
| 24          | 20.14 | 19.93 | 19.65 | 19.59 | 19.66 | 19.78 | 19.22 | 18.72 | 18.88 | 19.29 | 20.13 | 20.09 |
| 25          | 20.12 | 19.92 | 19.64 | 19.58 | 19.64 | 19.77 | 19.21 | 18.69 | 18.88 | 19.31 | 20.13 | 20.12 |
| 26          | 20.10 | 19.91 | 19.63 | 19.58 | 19.63 | 19.77 | 19.19 | 18.67 | 18.90 | 19.32 | 20.13 | 20.10 |
| 27          | 20.10 | 19.90 | 19.62 | 19.55 | 19.63 | 19.78 | 19.17 | 18.63 | 18.90 | 19.38 | 20.15 | 20.08 |
| 28          | 20.11 | 19.90 | 19.62 | 19.53 | 19.64 | 19.77 | 19.15 | 18.59 | 18.92 | 19.43 | 20.16 | 20.06 |
| 29          | 20.10 | 19.89 | 19.62 | 19.52 | ---   | 19.75 | 19.13 | 18.56 | 18.95 | 19.49 | 20.14 | 20.04 |
| 30          | 20.08 | 19.89 | 19.61 | 19.52 | ---   | 19.74 | 19.10 | 18.53 | 19.00 | 19.50 | 20.10 | 20.03 |
| 31          | 20.08 | ---   | 19.61 | 19.51 | ---   | 19.73 | ---   | 18.51 | ---   | 19.54 | 20.10 | ---   |
| MEAN        | 20.18 | 19.94 | 19.70 | 19.59 | 19.53 | 19.74 | 19.42 | 18.79 | 18.68 | 19.26 | 19.91 | 20.11 |
| MAX         | 20.28 | 20.08 | 19.88 | 19.65 | 19.66 | 19.85 | 19.71 | 19.08 | 19.00 | 19.54 | 20.16 | 20.21 |
| MIN         | 20.07 | 19.84 | 19.61 | 19.51 | 19.37 | 19.57 | 19.10 | 18.51 | 18.51 | 19.02 | 19.58 | 20.01 |
| CAL YR 1985 | MEAN  | 19.32 | MAX   | 20.28 | MIN   | 18.18 |       |       |       |       |       |       |
| WTR YR 1986 | MEAN  | 19.57 | MAX   | 20.28 | MIN   | 18.51 |       |       |       |       |       |       |



## 02292000 CALOOSAHATCHEE CANAL AT MOORE HAVEN, FL

LOCATION.--Lat 26°50'22", long 81°05'15", in NW¼NW¼ sec.12, T.42 S., R.32 E., Glades County, Hydrologic Unit 03090205, on right bank in boat house at downstream side of hurricane gate structure and lock 1 at Lake Okeechobee outlet, 0.1 mi west of control structure 77, 0.45 mi upstream from U.S. Highway 27, and 15 mi upstream from lock 2.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May to September 1913 (discharge measurements). October 1938 to current year. Monthly discharge only for some periods, published in WSP 1304. Prior to October 1938, published as Threemile Canal near Ritta.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Jan. 17, 1952, at site 0.5 mi downstream, at datum 1.44 ft lower. Jan. 17, 1952 to Sept. 30, 1966, at site 0.5 mi downstream at present datum. October 1938 to September 1966, auxiliary water-stage recorder 0.2 mi upstream from Lake Hicpochee and 3.0 mi downstream. Since October 1966, auxiliary water-stage recorder on upstream side of hurricane gate structure and lock 1.

REMARKS.--No estimated daily discharges. Records poor. Flow regulated by operation of control structure 77 at Lake Okeechobee.

COOPERATION.--Gate-opening record provided by U.S. Army Corps of Engineers.

AVERAGE DISCHARGE.--48 years, 915 ft<sup>3</sup>/s, 662,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 8,290 ft<sup>3</sup>/s Apr. 10, 11, 1970; maximum gage height, 15.76 ft present datum Sept. 27, 1948; maximum daily reverse flow, 4,410 ft<sup>3</sup>/s May 28, 1982; lock closed and flow consists of leakage and lockage estimated as 5.0 ft<sup>3</sup>/s during several periods in each year; minimum gage height, 5.8 ft present datum, estimated Aug. 8, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,530 ft<sup>3</sup>/s Mar. 5; maximum gage height, 11.81 ft Aug. 1; lock closed and flow consists of leakage and lockage estimated as 5.0 ft<sup>3</sup>/s for many days; minimum gage height, 10.16 ft Aug. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT   | NOV    | DEC    | JAN    | FEB    | MAR    | APR     | MAY     | JUN    | JUL   | AUG   | SEP   |
|-------|-------|--------|--------|--------|--------|--------|---------|---------|--------|-------|-------|-------|
| 1     | 5.0   | 5.0    | 390    | 5.0    | 5.0    | 166    | 5.0     | 743     | 746    | 5.0   | 5.0   | 5.0   |
| 2     | 5.0   | 5.0    | 212    | 5.0    | 5.0    | 5.0    | 5.0     | 1000    | 297    | 5.0   | 5.0   | 5.0   |
| 3     | 5.0   | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0     | 319     | 118    | 5.0   | 5.0   | 5.0   |
| 4     | 5.0   | 5.0    | 205    | 5.0    | 5.0    | 5.0    | 269     | 262     | 5.0    | 5.0   | 5.0   | 5.0   |
| 5     | 5.0   | 5.0    | 230    | 5.0    | 5.0    | 2530   | 432     | 473     | 171    | 5.0   | 5.0   | 5.0   |
| 6     | 5.0   | 131    | 5.0    | 5.0    | 5.0    | 2060   | 427     | 705     | 506    | 5.0   | 5.0   | 5.0   |
| 7     | 5.0   | 341    | 5.0    | 5.0    | 5.0    | 5.0    | 406     | 675     | 582    | 5.0   | 5.0   | 5.0   |
| 8     | 5.0   | 125    | 5.0    | 5.0    | 269    | 5.0    | 383     | 648     | 390    | 5.0   | 5.0   | 5.0   |
| 9     | 5.0   | 5.0    | 5.0    | 5.0    | 405    | 5.0    | 367     | 653     | 5.0    | 5.0   | 5.0   | 5.0   |
| 10    | 5.0   | 5.0    | 5.0    | 5.0    | 398    | 5.0    | 393     | 222     | 5.0    | 5.0   | 5.0   | 5.0   |
| 11    | 5.0   | 164    | 5.0    | 5.0    | 383    | 5.0    | 396     | 5.0     | 5.0    | 5.0   | 5.0   | 5.0   |
| 12    | 5.0   | 643    | 5.0    | 5.0    | 380    | 5.0    | 404     | 5.0     | 5.0    | 5.0   | 5.0   | 5.0   |
| 13    | 5.0   | 657    | 5.0    | 5.0    | 123    | 5.0    | 396     | 324     | 5.0    | 5.0   | 5.0   | 5.0   |
| 14    | 5.0   | 342    | 206    | 5.0    | 5.0    | 5.0    | 325     | 720     | 5.0    | 5.0   | 5.0   | 5.0   |
| 15    | 5.0   | 341    | 400    | 5.0    | 5.0    | 5.0    | 5.0     | 706     | 5.0    | 5.0   | 5.0   | 5.0   |
| 16    | 5.0   | 340    | 394    | 5.0    | 5.0    | 5.0    | 5.0     | 220     | 5.0    | 5.0   | 5.0   | 5.0   |
| 17    | 5.0   | 338    | 390    | 5.0    | 5.0    | 5.0    | 423     | 281     | 5.0    | 5.0   | 5.0   | 5.0   |
| 18    | 5.0   | 348    | 248    | 5.0    | 5.0    | 5.0    | 809     | 696     | 5.0    | 5.0   | 5.0   | 5.0   |
| 19    | 5.0   | 115    | 5.0    | 5.0    | 5.0    | 5.0    | 944     | 643     | 5.0    | 5.0   | 5.0   | 5.0   |
| 20    | 5.0   | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 377     | 196     | 5.0    | 5.0   | 5.0   | 5.0   |
| 21    | 5.0   | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 363     | 5.0     | 5.0    | 5.0   | 5.0   | 5.0   |
| 22    | 5.0   | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 362     | 5.0     | 5.0    | 5.0   | 5.0   | 5.0   |
| 23    | 5.0   | 5.0    | 189    | 5.0    | 5.0    | 5.0    | 391     | 2170    | 5.0    | 5.0   | 5.0   | 5.0   |
| 24    | 5.0   | 5.0    | 315    | 5.0    | 5.0    | 5.0    | 610     | 1230    | 5.0    | 5.0   | 5.0   | 5.0   |
| 25    | 5.0   | 5.0    | 529    | 5.0    | 5.0    | 5.0    | 762     | 88      | 5.0    | 5.0   | 5.0   | 5.0   |
| 26    | 5.0   | 5.0    | 757    | 5.0    | 5.0    | 54     | 744     | 436     | 5.0    | 5.0   | 5.0   | 5.0   |
| 27    | 5.0   | 5.0    | 848    | 473    | 55     | 5.0    | 730     | 697     | 5.0    | 5.0   | 5.0   | 5.0   |
| 28    | 5.0   | 276    | 150    | 1190   | 409    | 5.0    | 711     | 704     | 5.0    | 5.0   | 5.0   | 5.0   |
| 29    | 5.0   | 407    | 5.0    | 517    | ---    | 5.0    | 702     | 929     | 5.0    | 5.0   | 5.0   | 5.0   |
| 30    | 5.0   | 407    | 5.0    | 5.0    | ---    | 5.0    | 703     | 990     | 5.0    | 5.0   | 5.0   | 5.0   |
| 31    | 5.0   | ---    | 5.0    | 5.0    | ---    | 5.0    | ---     | 941     | ---    | 5.0   | 5.0   | ---   |
| TOTAL | 155.0 | 5050.0 | 5543.0 | 2320.0 | 2522.0 | 4945.0 | 12854.0 | 17691.0 | 2925.0 | 155.0 | 155.0 | 150.0 |
| MEAN  | 5.00  | 168    | 179    | 74.8   | 90.1   | 160    | 428     | 571     | 97.5   | 5.00  | 5.00  | 5.00  |
| MAX   | 5.0   | 657    | 848    | 1190   | 409    | 2530   | 944     | 2170    | 746    | 5.0   | 5.0   | 5.0   |
| MIN   | 5.0   | 5.0    | 5.0    | 5.0    | 5.0    | 5.0    | 5.0     | 5.0     | 5.0    | 5.0   | 5.0   | 5.0   |
| AC-FT | 307   | 10020  | 10990  | 4600   | 5000   | 9810   | 25500   | 35090   | 5800   | 307   | 307   | 298   |

CAL YR 1985 TOTAL 63336.0 MEAN 174 MAX 3150 MIN 5.0 AC-FT 125600  
WTR YR 1986 TOTAL 54465.0 MEAN 149 MAX 2530 MIN 5.0 AC-FT 108000

## CALOOSAHATCHEE RIVER

225

02292000 CALOOSAHATCHEE CANAL AT MOORE HAVEN, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY         | OCT        | NOV   | DEC       | JAN       | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|------------|-------|-----------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 10.98      | 11.01 | 11.11     | 11.38     | 11.59 | 11.23 | 11.31 | 11.20 | 11.20 | 10.94 | 11.35 | 11.05 |
| 2           | 11.00      | 11.03 | 11.24     | 11.44     | 11.58 | 11.17 | 11.23 | 11.26 | 11.20 | 10.71 | 10.82 | 11.06 |
| 3           | 10.94      | 11.01 | 11.18     | 11.41     | 11.53 | 10.98 | 11.06 | 11.20 | 11.23 | 10.92 | 10.87 | 11.08 |
| 4           | 11.17      | 11.04 | 11.02     | 11.40     | 11.46 | 11.04 | 10.72 | 10.86 | 11.03 | 10.81 | 10.93 | 11.04 |
| 5           | 11.28      | 10.94 | 11.01     | 11.42     | 11.35 | 11.22 | 10.77 | 10.84 | 10.79 | 10.73 | 10.60 | 10.79 |
| 6           | 11.23      | 10.80 | 11.21     | 11.46     | 11.17 | 11.11 | 10.79 | 11.02 | 10.79 | 11.12 | 10.88 | 10.79 |
| 7           | 10.95      | 11.01 | 11.37     | 11.36     | 11.00 | 11.21 | 11.04 | 11.18 | 11.04 | 10.79 | 11.08 | 11.14 |
| 8           | 11.01      | 11.24 | 11.54     | 11.28     | 10.91 | 11.18 | 11.23 | 11.30 | 11.24 | 10.65 | 10.83 | 10.89 |
| 9           | 11.01      | 11.18 | 11.45     | 11.44     | 10.96 | 11.19 | 11.30 | 11.21 | 11.52 | 10.89 | 10.99 | 11.37 |
| 10          | 10.99      | 11.03 | 11.30     | 11.60     | 10.99 | 11.28 | 11.16 | 11.26 | 11.51 | 11.01 | 11.05 | 10.96 |
| 11          | 11.05      | 10.83 | 11.19     | 11.45     | 11.10 | 11.25 | 11.03 | 11.16 | 11.29 | 11.03 | 11.01 | 10.84 |
| 12          | 11.07      | 10.73 | 11.20     | 11.30     | 11.30 | 11.18 | 10.88 | 11.03 | 11.33 | 10.73 | 10.98 | 10.96 |
| 13          | 11.12      | 11.16 | 10.95     | 11.12     | 11.37 | 11.07 | 10.99 | 10.81 | 10.98 | 10.67 | 10.92 | 10.73 |
| 14          | 11.18      | 11.10 | 10.80     | 11.02     | 11.17 | 11.55 | 11.14 | 10.85 | 11.15 | 11.07 | 11.04 | 11.04 |
| 15          | 11.16      | 10.97 | 10.99     | 11.12     | 11.10 | 11.52 | 11.16 | 11.02 | 11.21 | 11.06 | 11.01 | 11.03 |
| 16          | 11.03      | 10.87 | 11.07     | 11.33     | 11.11 | 11.41 | 11.02 | 11.15 | 10.93 | 10.83 | 10.82 | 10.88 |
| 17          | 10.95      | 10.79 | 11.08     | 11.53     | 11.09 | 11.12 | 10.92 | 10.77 | 10.83 | 11.03 | 11.05 | 10.88 |
| 18          | 11.00      | 10.88 | 11.26     | 11.56     | 11.04 | 10.97 | 10.88 | 10.90 | 11.16 | 11.14 | 11.34 | 11.02 |
| 19          | 10.96      | 11.16 | 11.31     | 11.53     | 11.37 | 11.40 | 11.20 | 11.13 | 11.14 | 10.99 | 10.98 | 10.97 |
| 20          | 11.15      | 11.03 | 11.30     | 11.46     | 11.49 | 11.54 | 11.15 | 11.29 | 10.98 | 10.91 | 10.79 | 11.04 |
| 21          | 11.30      | 11.04 | 11.23     | 11.21     | 11.54 | 11.50 | 11.13 | 11.32 | 10.69 | 10.97 | 10.70 | 11.13 |
| 22          | 11.15      | 11.18 | 11.16     | 11.24     | 11.41 | 11.26 | 11.13 | 11.33 | 10.67 | 11.23 | 10.85 | 11.13 |
| 23          | 11.13      | 11.27 | 10.87     | 11.31     | 11.25 | 11.14 | 10.88 | 11.30 | 10.91 | 11.14 | 10.78 | 11.10 |
| 24          | 11.10      | 11.32 | 10.92     | 11.20     | 11.27 | 11.09 | 10.72 | 11.42 | 10.65 | 11.10 | 10.99 | 11.08 |
| 25          | 11.08      | 11.31 | 11.08     | 11.04     | 11.26 | 10.95 | 10.91 | 11.18 | 11.00 | 11.19 | 11.00 | 11.09 |
| 26          | 11.20      | 11.19 | 11.11     | 10.98     | 11.15 | 10.94 | 10.96 | 10.91 | 11.06 | 10.89 | 10.80 | 11.12 |
| 27          | 11.27      | 11.06 | 11.11     | 10.79     | 10.99 | 11.59 | 11.02 | 10.85 | 10.75 | 11.23 | 11.10 | 11.07 |
| 28          | 11.12      | 10.96 | 11.22     | 11.06     | 10.84 | 11.58 | 11.13 | 10.79 | 10.87 | 10.76 | 11.08 | 10.97 |
| 29          | 11.10      | 10.90 | 11.33     | 11.45     | ---   | 11.13 | 11.16 | 10.81 | 10.89 | 10.77 | 10.77 | 10.89 |
| 30          | 11.03      | 10.97 | 11.26     | 11.60     | ---   | 11.19 | 11.22 | 10.96 | 10.83 | 10.64 | 10.82 | 10.87 |
| 31          | 11.01      | ---   | 11.32     | 11.61     | ---   | 11.32 | ---   | 11.07 | ---   | 11.01 | 10.95 | ---   |
| MEAN        | 11.09      | 11.03 | 11.17     | 11.33     | 11.23 | 11.24 | 11.04 | 11.08 | 11.03 | 10.93 | 10.94 | 11.00 |
| MAX         | 11.30      | 11.32 | 11.54     | 11.61     | 11.59 | 11.59 | 11.31 | 11.42 | 11.52 | 11.23 | 11.35 | 11.37 |
| MIN         | 10.94      | 10.73 | 10.80     | 10.79     | 10.84 | 10.94 | 10.72 | 10.77 | 10.65 | 10.64 | 10.60 | 10.73 |
| CAL YR 1985 | MEAN 11.09 |       | MAX 11.60 | MIN 10.71 |       |       |       |       |       |       |       |       |
| WTR YR 1986 | MEAN 11.09 |       | MAX 11.61 | MIN 10.60 |       |       |       |       |       |       |       |       |

## CALOOSAHATCHEE RIVER

02292480 CALOOSAHATCHEE CANAL AT ORTONA LOCK NEAR LA BELLE, FL  
(National stream-quality accounting network station)

LOCATION.--Lat 26°47'22", long 81°18'11", in SW¼ sec.26, T.42 S., R.30 E., Glades County, Hydrologic Unit 03090205, near right bank, 500 ft upstream from Ortona Lock, 1.4 mi downstream from Long Hammock Creek, and 9.0 mi east of La Belle.

DRAINAGE AREA.--Indeterminate.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1948 to September 1950 (discharge measurements and gage heights), July 1971 to current year. Records of gage heights and discharge measurements can be found in the records of the Geological Survey.

REVISED RECORDS.--WDR FL-80-2A: 1979.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. (Levels by U.S. Army Corps of Engineers).

REMARKS.--Records good, except those for estimated daily discharges, which are fair. Flow regulated by operation of control structures 77 and 78.

COOPERATION.--Gate-opening record provided by U.S. Army Corps of Engineers.

AVERAGE DISCHARGE.--15 years, 824 ft<sup>3</sup>/s, 597,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 9,720 ft<sup>3</sup>/s Aug. 8, 1974; maximum gage height, 12.80 ft June 26, 1974; no flow for a few days in some years; minimum gage height, 8.60 ft Nov. 3, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,480 ft<sup>3</sup>/s Mar. 5; maximum gage height, 11.88 ft May 24; no flow for some days during the year; minimum gage height, 10.49 ft Jan. 27.

CORRECTION.--The average discharge for water year 1985 is 846 ft<sup>3</sup>/s; the previously published figure was not the average discharge.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT     | NOV     | DEC    | JAN    | FEB  | MAR   | APR  | MAY    | JUN     | JUL     | AUG   | SEP   |
|-------|---------|---------|--------|--------|------|-------|------|--------|---------|---------|-------|-------|
| 1     | 390     | .00     | 22     | 16     | 20   | 11    | 20   | 360    | 179     | 950     | 1380  | 513   |
| 2     | 390     | .00     | 20     | 7.5    | 21   | 11    | 22   | 412    | 8.3     | 1380    | 1110  | 397   |
| 3     | 390     | .00     | 14     | 20     | 12   | 21    | 180  | 115    | 13      | 1280    | 796   | e 395 |
| 4     | 587     | .00     | 137    | 14     | 17   | 12    | 227  | 20     | 13      | 1520    | 1220  | e 394 |
| 5     | 1500    | .00     | 133    | 19     | 18   | 3480  | 235  | 107    | 11      | 1060    | 868   | e 393 |
| 6     | 1500    | .00     | 166    | 56     | 13   | 2770  | 184  | 228    | 13      | 1050    | 792   | e 205 |
| 7     | 943     | .00     | 130    | 190    | 17   | 16    | 18   | 231    | 131     | 1350    | 1570  | e 494 |
| 8     | 390     | .00     | 299    | 188    | 147  | 18    | 10   | 303    | 201     | 639     | 1380  | e1140 |
| 9     | 390     | .00     | 399    | 229    | 206  | 22    | 161  | 340    | 612     | 398     | 803   | e1870 |
| 10    | 335     | .00     | 359    | 475    | 198  | 811   | 229  | 82     | 1100    | 405     | 795   | e2550 |
| 11    | 179     | 121     | 69     | 788    | 193  | 2220  | 232  | 19     | 707     | 554     | 790   | e1510 |
| 12    | 179     | 179     | 48     | 797    | 200  | 2220  | 125  | 19     | 1190    | 793     | 1150  | e1510 |
| 13    | 179     | 179     | 196    | 528    | 189  | 1240  | 17   | 251    | 1510    | 498     | 1040  | e 834 |
| 14    | 179     | 187     | 192    | 138    | 125  | 1520  | 17   | 410    | 1630    | 538     | 1220  | e 535 |
| 15    | 179     | 201     | 186    | 14     | 24   | 1520  | 20   | 181    | 2520    | 787     | 1510  | e 787 |
| 16    | 179     | 203     | 188    | 12     | 20   | 1510  | 18   | 19     | 2610    | 486     | 1390  | e 719 |
| 17    | 43      | 99      | 155    | 155    | 18   | 1420  | 179  | 26     | 2090    | 9.1     | 967   | e 236 |
| 18    | .00     | 18      | 13     | 404    | 15   | 237   | 321  | 20     | 1900    | 277     | 2490  | e 186 |
| 19    | .00     | 155     | 7.4    | 407    | 20   | 83    | 362  | 16     | 2880    | 367     | 2820  | e 171 |
| 20    | .00     | 284     | 6.6    | 405    | 19   | 230   | 176  | 8.4    | 3400    | 167     | 2570  | e 44  |
| 21    | 297     | 13      | 11     | 289    | 142  | 492   | 17   | 12     | 3080    | 11      | 3100  | e 192 |
| 22    | 291     | 13      | 121    | 16     | 203  | 483   | 75   | 22     | 2710    | 353     | 2840  | e 189 |
| 23    | 179     | 18      | 164    | 92     | 123  | 266   | 230  | 3090   | 2300    | 790     | 1970  | e 189 |
| 24    | 179     | 19      | 6.2    | 191    | 13   | 158   | 222  | 1380   | 2110    | 789     | 1520  | e 166 |
| 25    | 50      | 16      | 122    | 167    | 16   | 18    | 228  | 95     | 1600    | 1420    | 1510  | e 10  |
| 26    | .00     | 16      | 217    | 11     | 14   | 21    | 241  | 208    | 2630    | 1230    | 961   | e 10  |
| 27    | 248     | 16      | 327    | 203    | 33   | 437   | 234  | 190    | 2030    | 1560    | 837   | e 10  |
| 28    | 239     | 140     | 70     | 393    | 170  | 801   | 233  | 191    | 1520    | 1790    | 1430  | e 10  |
| 29    | 179     | 172     | 18     | 300    | ---  | 542   | 229  | 193    | 1520    | 1510    | 1380  | e 10  |
| 30    | 73      | 26      | 14     | 11     | ---  | 26    | 235  | 193    | 1420    | 1030    | 800   | e 10  |
| 31    | .00     | ---     | 14     | 14     | ---  | 26    | ---  | 203    | ---     | 224     | 803   | ---   |
| TOTAL | 9667.00 | 2075.00 | 3824.2 | 6549.5 | 2206 | 22642 | 4697 | 8944.4 | 43638.3 | 25215.1 | 43812 | 15679 |
| MEAN  | 312     | 69.2    | 123    | 211    | 78.8 | 730   | 157  | 289    | 1455    | 813     | 1413  | 523   |
| MAX   | 1500    | 284     | 399    | 797    | 206  | 3480  | 362  | 3090   | 3400    | 1790    | 3100  | 2550  |
| MIN   | .00     | .00     | 6.2    | 7.5    | 12   | 11    | 10   | 8.4    | 8.3     | 9.1     | 790   | 10    |
| AC-FT | 19170   | 4120    | 7590   | 12990  | 4380 | 44910 | 9320 | 17740  | 86560   | 50010   | 86900 | 31100 |

CAL YR 1985 TOTAL 114875.10 MEAN 315 MAX 3440 MIN .00 AC-FT 227900  
WTR YR 1986 TOTAL 188949.50 MEAN 518 MAX 3480 MIN .00 AC-FT 374800

e Estimated



02292480 CALOOSAHATCHEE CANAL AT ORTONA LOCK, NEAR LA BELLE, FL--Continued

## WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

[illegible][illegible]



WATER-QUALITY RECORDS

WATER QUALITY DATA. WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

[illegible][illegible]

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | TEMPER-<br>ATURE<br>AIR<br>(DEG C)<br>(00020) | BARO-<br>METRIC<br>PRES-<br>SURE<br>(MM<br>OF<br>HG)<br>(00025) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | WEATHER<br>(WMO<br>CODE<br>NUMBER)<br>(00041) | GAGE<br>HEIGHT<br>(FEET<br>ABOVE<br>DATUM)<br>(00065) | TUR-<br>BID-<br>ITY<br>(NTU)<br>(00076) | TRANS-<br>PAR-<br>ENCY<br>(SECCHI<br>DISK)<br>(IN)<br>(00077) |
|-------|------|---------------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------|
| APR   |      |                                             |                                                 |                                               |                                                                 |                                                                    |                                                                   |                                               |                                                       |                                         |                                                               |
| 15... | 1300 | --                                          | 25.5                                            | --                                            | 764                                                             | 1028                                                               | 80020                                                             | 1                                             | 11.26                                                 | 1.6                                     | 50.0                                                          |
| 15... | 1301 | 0.50                                        | 25.5                                            | --                                            | --                                                              | 1028                                                               | 1028                                                              | --                                            | --                                                    | --                                      | --                                                            |
| 15... | 1302 | 3.00                                        | 25.0                                            | --                                            | --                                                              | 1028                                                               | 1028                                                              | --                                            | --                                                    | --                                      | --                                                            |
| 15... | 1303 | 5.00                                        | 24.5                                            | --                                            | --                                                              | 1028                                                               | 1028                                                              | --                                            | --                                                    | --                                      | --                                                            |
| 15... | 1304 | 25.0                                        | 24.0                                            | --                                            | --                                                              | 1028                                                               | 1028                                                              | --                                            | --                                                    | --                                      | --                                                            |
| JUL   |      |                                             |                                                 |                                               |                                                                 |                                                                    |                                                                   |                                               |                                                       |                                         |                                                               |
| 16... | 1115 | --                                          | 33.0                                            | 28.0                                          | 769                                                             | 1028                                                               | 1028                                                              | 0                                             | 10.87                                                 | 2.0                                     | 32.0                                                          |
| 16... | 1116 | 0.50                                        | 32.0                                            | --                                            | --                                                              | 1028                                                               | 1028                                                              | --                                            | --                                                    | --                                      | --                                                            |
| 16... | 1117 | 3.00                                        | 31.0                                            | --                                            | --                                                              | 1028                                                               | 1028                                                              | --                                            | --                                                    | --                                      | --                                                            |
| 16... | 1118 | 5.00                                        | 30.5                                            | --                                            | --                                                              | 1028                                                               | 1028                                                              | --                                            | --                                                    | --                                      | --                                                            |
| 16... | 1119 | 26.0                                        | 28.0                                            | --                                            | --                                                              | 1028                                                               | 1028                                                              | --                                            | --                                                    | --                                      | --                                                            |

[illegible]

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

[illegible][illegible]

02292480 CALOOSAHATCHEE CANAL AT ORTONA LOCK, NEAR LA BELLE, FL--Continued

## WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

[illegible][illegible]

## CALOOSAHATCHEE RIVER

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02292780 TOWNSEND CANAL NEAR ALVA, FL

LOCATION.--Lat 26°42'33", long 81°33'30", in SW¼ sec.30, T.43 S., R.28 E., Hendry County, Hydrologic Unit 03090205, on north side of bridge on State Highway 80, 3.2 mi east of Alva, 9 mi west of La Belle, and 9.6 mi east of Olga.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1975 to current year.

GAGE.--Water-stage and electromagnetic velocity meter recorders. Prior to July 1983, deflection vane recorder at same site. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Flow regulated by pump station upstream and control and gate structure downstream. Flow frequently reversed to supply water for agricultural purposes (negative figures indicate flow to the south). Discharge computed from continuous velocity record obtained from electromagnetic velocity meter.

AVERAGE DISCHARGE.--6 years (water years 1977-82), 5.81 ft<sup>3</sup>/s, 4,210 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,670 ft<sup>3</sup>/s June 19, 1982; maximum gage height, 9.98 ft June 9, 1983; maximum daily reverse flow, 1,000 ft<sup>3</sup>/s Apr. 7, 1983; minimum gage height, 1.08 ft July 27, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 779 ft<sup>3</sup>/s June 24; maximum gage height, 7.83 ft June 2; maximum daily reverse flow, 391 ft<sup>3</sup>/s Dec. 26; minimum gage height, 1.63 ft Jan. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT  | NOV  | DEC   | JAN      | FEB     | MAR  | APR | MAY  | JUN     | JUL     | AUG | SEP  |
|-------|------|------|-------|----------|---------|------|-----|------|---------|---------|-----|------|
| 1     | -271 | ---  | -101  | 47       | 6.8     | -18  | --- | ---  | -161    | 73      | 153 | ---  |
| 2     | -216 | ---  | -137  | 68       | 36      | -27  | --- | ---  | 255     | 31      | 79  | ---  |
| 3     | -192 | ---  | -288  | -137     | 42      | 135  | --- | ---  | 1.0     | .00     | 23  | ---  |
| 4     | -26  | ---  | -295  | -95      | 1.0     | 59   | --- | ---  | -63     | .00     | 24  | ---  |
| 5     | -26  | 87   | e-210 | 56       | -12     | 46   | --- | ---  | -116    | 90      | 326 | .00  |
| 6     | -16  | 71   | ---   | .00      | -103    | 14   | --- | ---  | -105    | 581     | 75  | -2.2 |
| 7     | -93  | -77  | ---   | -165     | -182    | -2.0 | --- | ---  | -161    | 402     | 14  | -.40 |
| 8     | -71  | -42  | ---   | -32      | -231    | -33  | --- | ---  | -126    | 474     | 24  | 9.9  |
| 9     | -174 | -42  | ---   | 15       | -225    | -17  | --- | ---  | 139     | 260     | --- | .00  |
| 10    | -193 | -115 | ---   | 112      | -213    | 109  | --- | -157 | 120     | 61      | --- | 145  |
| 11    | -148 | -262 | ---   | 116      | -233    | 256  | --- | -256 | 135     | 16      | --- | -5.3 |
| 12    | -168 | -325 | ---   | 71       | -169    | 117  | --- | -159 | 164     | 132     | --- | -8.3 |
| 13    | -121 | -383 | ---   | 100      | -51     | 25   | --- | -294 | 137     | .00     | --- | -10  |
| 14    | -38  | -379 | ---   | 38       | -58     | 31   | --- | -267 | 13      | .00     | --- | 5.3  |
| 15    | -74  | -365 | ---   | 34       | -43     | 41   | --- | -106 | 9.3     | -7.7    | --- | 23   |
| 16    | -20  | -244 | ---   | 21       | -34     | ---  | --- | -48  | 263     | 19      | --- | -71  |
| 17    | -97  | -181 | ---   | -11      | -94     | ---  | --- | -38  | 98      | 12      | --- | -137 |
| 18    | -136 | -83  | e-71  | -8.0     | 10      | ---  | --- | -202 | 458     | -60     | --- | -151 |
| 19    | -44  | 77   | -168  | 39       | 3.0     | ---  | --- | -151 | 310     | -5.4    | --- | -129 |
| 20    | -47  | 154  | -52   | -17      | -38     | ---  | --- | -71  | 588     | 26      | --- | -102 |
| 21    | -97  | 70   | -188  | -144     | -29     | ---  | --- | -28  | 585     | -12     | --- | 84   |
| 22    | -125 | 24   | -227  | -220     | -2.4    | ---  | --- | -47  | 566     | -13     | --- | ---  |
| 23    | ---  | 22   | -111  | -113     | -27     | ---  | --- | -112 | 238     | -39     | --- | ---  |
| 24    | ---  | 12   | -175  | -52      | 5.2     | ---  | --- | -224 | 779     | -124    | --- | ---  |
| 25    | ---  | -25  | -308  | -56      | 89      | ---  | --- | -201 | 196     | -67     | --- | ---  |
| 26    | ---  | -284 | -391  | -214     | -56     | ---  | --- | -167 | 26      | -4.0    | --- | ---  |
| 27    | ---  | -298 | -268  | -367     | -68     | ---  | --- | -223 | 26      | 114     | --- | ---  |
| 28    | ---  | -224 | 117   | -329     | -62     | ---  | --- | -220 | .00     | 335     | --- | ---  |
| 29    | ---  | -93  | 121   | -256     | ---     | ---  | --- | -214 | 11      | 400     | --- | ---  |
| 30    | ---  | -236 | 58    | -98      | ---     | ---  | --- | -207 | 225     | 182     | --- | ---  |
| 31    | ---  | ---  | 19    | 9.0      | ---     | ---  | --- | -211 | ---     | 35      | --- | ---  |
| TOTAL | ---  | ---  | ---   | -1588.00 | -1737.4 | ---  | --- | ---  | 4610.30 | 2910.90 | --- | ---  |
| MEAN  | ---  | ---  | ---   | -51.2    | -62.1   | ---  | --- | ---  | 154     | 93.9    | --- | ---  |
| MAX   | ---  | ---  | ---   | 116      | 89      | ---  | --- | ---  | 779     | 581     | --- | ---  |
| MIN   | ---  | ---  | ---   | -367     | -233    | ---  | --- | ---  | -161    | -124    | --- | ---  |
| AC-FT | ---  | ---  | ---   | -3150    | -3450   | ---  | --- | ---  | 9140    | 5770    | --- | ---  |

e Estimated



## CALOOSAHATCHEE RIVER

02292780 TOWNSEND CANAL NEAR ALVA, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC   | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|-------|------|------|------|------|------|------|------|------|------|
| 1    | 2.76 | ---  | 3.34  | 3.44 | 3.44 | 3.30 | 3.08 | 2.61 | 2.76 | 4.98 | 4.40 | 4.55 |
| 2    | 2.38 | ---  | 3.30  | 3.52 | 3.50 | 3.18 | 2.65 | 2.76 | 5.22 | 5.13 | 4.05 | 4.74 |
| 3    | 2.71 | ---  | 2.91  | 3.37 | 3.49 | 4.15 | 2.64 | 3.10 | 4.05 | 4.90 | 3.64 | 3.89 |
| 4    | 2.96 | ---  | 2.74  | 3.32 | 3.42 | 4.13 | 2.76 | 3.29 | 3.28 | 5.02 | 3.62 | 3.47 |
| 5    | 2.91 | 3.59 | e3.26 | 3.54 | 3.31 | 3.67 | 3.00 | 2.74 | 3.07 | 4.89 | 4.73 | 4.43 |
| 6    | 2.91 | 3.45 | ---   | 3.42 | 3.20 | 3.54 | 3.18 | 2.43 | 2.98 | 5.80 | 3.96 | 4.25 |
| 7    | 2.80 | 3.41 | ---   | 3.19 | 2.98 | 3.43 | 3.10 | 2.52 | 2.76 | 5.46 | 3.71 | 3.65 |
| 8    | 2.88 | 3.34 | ---   | 3.40 | 2.74 | 3.35 | 2.81 | 2.60 | 3.14 | 5.53 | 3.57 | 5.06 |
| 9    | 2.66 | 3.31 | ---   | 3.35 | 2.76 | 3.39 | 2.75 | 3.24 | 4.79 | 5.44 | 3.55 | 4.68 |
| 10   | 2.73 | 3.15 | ---   | 3.88 | 2.76 | 4.02 | 2.77 | 3.31 | 4.54 | 5.25 | 3.49 | 4.88 |
| 11   | 2.80 | 2.81 | ---   | 3.84 | 2.66 | 5.49 | 2.96 | 2.97 | 4.50 | 5.12 | 3.56 | 4.13 |
| 12   | 2.67 | 2.70 | ---   | 3.54 | 2.82 | 5.42 | 3.21 | 3.03 | 4.67 | 5.60 | 4.21 | 3.86 |
| 13   | 2.85 | 2.68 | ---   | 3.72 | 3.18 | 3.85 | 3.16 | 2.45 | 4.52 | 5.00 | 4.78 | 3.71 |
| 14   | 2.93 | 2.75 | ---   | 3.39 | 3.41 | 3.80 | 3.16 | 2.66 | 4.00 | 4.81 | 5.14 | 3.37 |
| 15   | 2.77 | 2.81 | ---   | 3.49 | 3.51 | 3.95 | 2.96 | 3.47 | 4.09 | 4.02 | 5.08 | 3.35 |
| 16   | 2.86 | 3.15 | ---   | 3.51 | 3.54 | 3.91 | 3.03 | 3.54 | 5.18 | 3.45 | 5.79 | 3.28 |
| 17   | 2.74 | 3.41 | ---   | 3.38 | 3.45 | 3.65 | 2.42 | 3.58 | 4.60 | 3.40 | 4.79 | 3.11 |
| 18   | 2.65 | 3.51 | e3.33 | 3.40 | 3.81 | 3.51 | 2.68 | 3.16 | 5.84 | 3.18 | 4.24 | 3.02 |
| 19   | 2.83 | 3.80 | 3.20  | 3.48 | 3.50 | 3.40 | 3.21 | 3.21 | 5.84 | 3.28 | 4.86 | 3.08 |
| 20   | 2.78 | 4.05 | 3.31  | 3.46 | 3.40 | 3.58 | 3.45 | 3.31 | 6.32 | 3.57 | 5.35 | 3.09 |
| 21   | 2.80 | 3.68 | 3.10  | 3.09 | 3.48 | 3.49 | 3.10 | 3.46 | 6.25 | 3.26 | 6.81 | 4.07 |
| 22   | 2.72 | 3.38 | 2.96  | 2.71 | 3.56 | 3.21 | 2.90 | 3.50 | 6.27 | 3.38 | 6.11 | 4.81 |
| 23   | ---  | 3.39 | 3.22  | 2.86 | 3.40 | 3.29 | 2.86 | 3.33 | 5.33 | 3.12 | 5.46 | 3.56 |
| 24   | ---  | 3.50 | 3.13  | 3.17 | 3.44 | 3.26 | 2.89 | 2.88 | 6.75 | 3.07 | 5.28 | 4.13 |
| 25   | ---  | 3.57 | 2.67  | 3.35 | 3.94 | 3.12 | 2.85 | 2.84 | 5.74 | 3.40 | 5.23 | 3.33 |
| 26   | ---  | 3.12 | 2.12  | 2.90 | 3.26 | 2.90 | 2.81 | 3.01 | 5.77 | 3.51 | 5.01 | 3.49 |
| 27   | ---  | 2.86 | 2.50  | 2.01 | 3.05 | 3.20 | 2.75 | 2.84 | 5.67 | 3.84 | 4.83 | 3.39 |
| 28   | ---  | 2.91 | 3.80  | 2.30 | 3.09 | 3.48 | 3.16 | 2.74 | 5.37 | 5.15 | 5.17 | 3.40 |
| 29   | ---  | 3.31 | 3.92  | 2.77 | ---  | 3.34 | 2.87 | 2.76 | 5.63 | 5.36 | 5.10 | 3.08 |
| 30   | ---  | 3.11 | 3.48  | 3.33 | ---  | 3.23 | 2.63 | 2.76 | 6.13 | 4.68 | 4.77 | 2.99 |
| 31   | ---  | ---  | 3.36  | 3.59 | ---  | 3.30 | ---  | 2.67 | ---  | 3.65 | 4.63 | ---  |
| MEAN | ---  | ---  | ---   | 3.28 | 3.29 | 3.63 | 2.93 | 2.99 | 4.84 | 4.40 | 4.67 | 3.80 |
| MAX  | ---  | ---  | ---   | 3.88 | 3.94 | 5.49 | 3.45 | 3.58 | 6.75 | 5.80 | 6.81 | 5.06 |
| MIN  | ---  | ---  | ---   | 2.01 | 2.66 | 2.90 | 2.42 | 2.43 | 2.76 | 3.07 | 3.49 | 2.99 |

e Estimated

## CALOOSAHATCHEE RIVER

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

LOCATION.--Lat 26°43'25", long 81°41'55", in SW¼ 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.

## WATER-DISCHARGE RECORDS

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

REVISED RECORD.--WDR FL-79-2A; 1978.

GAGE.--Dual water-stage recorder, gate-opening recorder, and gate-opening indicators. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--No estimated daily discharges. Records good. Flow regulated by operation of salinity-control structure 79. Discharge computed from relations between discharge, head, and gate opening.

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

AVERAGE DISCHARGE.--20 years, 1,568 ft<sup>3</sup>/s, 1,136,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 21,400 ft<sup>3</sup>/s Mar. 27, 1970; maximum gage height, 5.42 ft June 18, 1982; no flow for some days in 1981, 1985; minimum gage height, 1.18 ft Sept. 22, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 10,600 ft<sup>3</sup>/s Aug. 21; maximum gage height, 3.83 ft June 20; no flow, Nov. 3, 4; minimum gage height, 2.60 ft Jan. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT   | NOV     | DEC    | JAN     | FEB    | MAR     | APR   | MAY    | JUN     | JUL    | AUG    | SEP    |
|-------|-------|---------|--------|---------|--------|---------|-------|--------|---------|--------|--------|--------|
| 1     | 1160  | 158     | 14     | 13      | 18     | 7.5     | 18    | 11     | 14      | 2730   | 3690   | 3140   |
| 2     | 1100  | 206     | 8.3    | 13      | 21     | 15      | 20    | 12     | 762     | 4050   | 2490   | 2970   |
| 3     | 1020  | .00     | 11     | 17      | 327    | 132     | 13    | 13     | 187     | 3280   | 2300   | 2810   |
| 4     | 1780  | .00     | 8.6    | 16      | 165    | 374     | 19    | 24     | 10      | 4430   | 3320   | 2500   |
| 5     | 3150  | 564     | 37     | 11      | 10     | 4030    | 24    | 11     | 4.0     | 3190   | 2620   | 2470   |
| 6     | 3030  | 197     | 380    | 422     | 9.9    | 3450    | 27    | 8.3    | 8.4     | 4260   | 2910   | 1710   |
| 7     | 1900  | 219     | 538    | 11      | 10     | 293     | 13    | 10     | 12      | 4170   | 3220   | 2040   |
| 8     | 1420  | 417     | 573    | 640     | 13     | 21      | 9.4   | 11     | 110     | 3410   | 2730   | 3770   |
| 9     | 1340  | 125     | 703    | 348     | 14     | 24      | 5.5   | 10     | 1590    | 2810   | 2390   | 4470   |
| 10    | 668   | .90     | 689    | 1110    | 9.0    | 2150    | 16    | 17     | 2040    | 2970   | 2420   | 7270   |
| 11    | 941   | 1.7     | 7.0    | 1860    | 7.7    | 4100    | 16    | 21     | 2040    | 2760   | 2170   | 5390   |
| 12    | 664   | 2.9     | 6.9    | 1610    | 11     | 4120    | 17    | 8.2    | 2410    | 3730   | 3590   | 4530   |
| 13    | 518   | 3.7     | 5.7    | 819     | 11     | 2810    | 17    | 7.7    | 2200    | 2550   | 3480   | 3530   |
| 14    | 974   | 4.1     | 6.2    | 338     | 15     | 2210    | 9.2   | 9.6    | 2610    | 2770   | 3970   | 3130   |
| 15    | 770   | 13      | 9.3    | 11      | 16     | 2320    | 14    | 10     | 4340    | 2550   | 3620   | 2130   |
| 16    | 774   | 22      | 6.2    | 265     | 28     | 2160    | 9.7   | 13     | 4320    | 1710   | 3880   | 2220   |
| 17    | 397   | 19      | 3.6    | 257     | 16     | 2350    | 13    | 23     | 3960    | 1240   | 3040   | 1280   |
| 18    | 288   | 17      | 10     | 556     | 11     | 785     | 16    | 18     | 3680    | 930    | 5060   | 726    |
| 19    | 344   | 1230    | 12     | 1010    | 279    | 349     | 25    | 7.9    | 5060    | 1120   | 5740   | 1100   |
| 20    | 384   | 593     | 5.8    | 583     | 13     | 459     | 19    | 2.9    | 5870    | 1170   | 6660   | 798    |
| 21    | 714   | 372     | 9.3    | 498     | 59     | 1260    | 8.2   | 6.0    | 5620    | 458    | 10600  | 1870   |
| 22    | 803   | 393     | 10     | 12      | 462    | 844     | 9.9   | 14     | 5160    | 872    | 8790   | 2270   |
| 23    | 616   | 16      | 8.3    | 10      | 372    | 282     | 14    | 3570   | 4170    | 1530   | 6400   | 915    |
| 24    | 653   | 23      | 6.3    | 8.4     | 97     | 361     | 17    | 1680   | 5230    | 1360   | 5340   | 1910   |
| 25    | 489   | 13      | 4.2    | 12      | 189    | 20      | 8.4   | 19     | 4060    | 2390   | 5340   | 1090   |
| 26    | 478   | 13      | 8.3    | 10      | 151    | 14      | 15    | 20     | 5940    | 2290   | 4380   | 1010   |
| 27    | 761   | 6.8     | 10     | 3.7     | 8.7    | 419     | 17    | 9.6    | 4520    | 2990   | 3960   | 701    |
| 28    | 620   | 8.7     | 99     | 6.1     | 5.2    | 1510    | 13    | 8.6    | 3650    | 3280   | 4590   | 560    |
| 29    | 638   | 13      | 419    | 9.4     | ---    | 1160    | 7.3   | 10     | 3700    | 3410   | 4320   | 172    |
| 30    | 168   | 18      | 408    | 11      | ---    | 18      | 13    | 10     | 4220    | 2620   | 3900   | 100    |
| 31    | 12    | ---     | 9.8    | 137     | ---    | 18      | ---   | 15     | ---     | 1340   | 3560   | ---    |
| TOTAL | 28574 | 4669.80 | 4026.8 | 10627.6 | 2348.5 | 38065.5 | 443.6 | 5610.8 | 87497.4 | 78370  | 130480 | 68582  |
| MEAN  | 922   | 156     | 130    | 343     | 83.9   | 1228    | 14.8  | 181    | 2917    | 2528   | 4209   | 2286   |
| MAX   | 3150  | 1230    | 703    | 1860    | 462    | 4120    | 27    | 3570   | 5940    | 4430   | 10600  | 7270   |
| MIN   | 12    | .00     | 3.6    | 3.7     | 5.2    | 7.5     | 5.5   | 2.9    | 4.0     | 458    | 2170   | 100    |
| AC-FT | 56680 | 9260    | 7990   | 21080   | 4660   | 75500   | 880   | 11130  | 173600  | 155400 | 258800 | 136000 |

CAL YR 1985 TOTAL 361688.30 MEAN 991 MAX 9650 MIN .00 AC-FT 717400  
WTR YR 1986 TOTAL 459296.00 MEAN 1258 MAX 10600 MIN .00 AC-FT 911000

## CALOOSAHATCHEE RIVER

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

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1945 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | TEMPER-<br>ATURE<br>AIR<br>(DEG C)<br>(00020) | BARO-<br>METRIC<br>PRES-<br>SURE<br>(MM<br>OF<br>HG)<br>(00025) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | WEATHER<br>(WMO<br>CODE<br>NUMBER)<br>(00041) | GAGE<br>HEIGHT<br>(FEET<br>ABOVE<br>DATUM)<br>(00065) | TRANS-<br>PAR-<br>ENCY<br>(SECCHI<br>DISK)<br>(IN)<br>(00077) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) |
|-------|------|---------------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------|
| DEC   |      |                                             |                                                 |                                               |                                                                 |                                                                    |                                                                   |                                               |                                                       |                                                               |                                                         |
| 03... | 1550 | 0.50                                        | 25.0                                            | 24.0                                          | 764                                                             | 1028                                                               | 1028                                                              | 1                                             | --                                                    | 46.0                                                          | 100                                                     |
| 03... | 1551 | 3.00                                        | 25.0                                            | --                                            | --                                                              | 1028                                                               | 1028                                                              | --                                            | --                                                    | --                                                            | --                                                      |
| 03... | 1552 | 5.00                                        | 25.0                                            | --                                            | --                                                              | 1028                                                               | 1028                                                              | --                                            | --                                                    | --                                                            | --                                                      |
| 03... | 1553 | 18.0                                        | 25.0                                            | --                                            | --                                                              | 1028                                                               | 1028                                                              | --                                            | --                                                    | --                                                            | --                                                      |
| JAN   |      |                                             |                                                 |                                               |                                                                 |                                                                    |                                                                   |                                               |                                                       |                                                               |                                                         |
| 22... | 0930 | --                                          | --                                              | --                                            | --                                                              | 1028                                                               | 1028                                                              | --                                            | --                                                    | --                                                            | --                                                      |
| 22... | 0930 | 0.50                                        | 19.0                                            | 23.5                                          | 770                                                             | 1028                                                               | 1028                                                              | 0                                             | 3.10                                                  | 40.0                                                          | 85                                                      |
| 22... | 0931 | --                                          | --                                              | --                                            | --                                                              | 1028                                                               | 1028                                                              | --                                            | --                                                    | --                                                            | --                                                      |
| 22... | 0931 | 3.00                                        | 19.0                                            | --                                            | --                                                              | --                                                                 | --                                                                | --                                            | --                                                    | --                                                            | --                                                      |
| 22... | 0932 | 5.00                                        | 19.0                                            | --                                            | --                                                              | 1028                                                               | 1028                                                              | --                                            | --                                                    | --                                                            | --                                                      |
| 22... | 0933 | 17.0                                        | 18.5                                            | --                                            | --                                                              | 1028                                                               | 1028                                                              | --                                            | --                                                    | --                                                            | --                                                      |

| DATE  | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS)<br>(00403) | ALKA-<br>LITY<br>WH WAT<br>TOTAL<br>MG/L AS<br>CACO3<br>(00410) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS.<br>(MG/L<br>AS N)<br>(00623) |
|-------|--------------------------------------------------------------|------------------------------------------------|-------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------|
| DEC   |                                                              |                                                |                                           |                                                  |                                                                 |                                                                          |                                                                 |                                                                          |                                                                 |                                                                              |
| 03... | 740                                                          | 6.3                                            | 7.90                                      | 8.00                                             | --                                                              | 0.040                                                                    | 0.040                                                           | 0.010                                                                    | 0.010                                                           | 0.95                                                                         |
| 03... | 766                                                          | 6.3                                            | --                                        | --                                               | --                                                              | --                                                                       | --                                                              | --                                                                       | --                                                              | --                                                                           |
| 03... | 766                                                          | 6.2                                            | --                                        | --                                               | --                                                              | --                                                                       | --                                                              | --                                                                       | --                                                              | --                                                                           |
| 03... | 1570                                                         | 5.8                                            | --                                        | --                                               | --                                                              | --                                                                       | --                                                              | --                                                                       | --                                                              | --                                                                           |
| JAN   |                                                              |                                                |                                           |                                                  |                                                                 |                                                                          |                                                                 |                                                                          |                                                                 |                                                                              |
| 22... | --                                                           | --                                             | --                                        | --                                               | --                                                              | --                                                                       | --                                                              | --                                                                       | --                                                              | --                                                                           |
| 22... | 689                                                          | 7.8                                            | 7.70                                      | 8.10                                             | 180                                                             | 0.020                                                                    | 0.020                                                           | 0.020                                                                    | 0.020                                                           | 1.2                                                                          |
| 22... | --                                                           | --                                             | --                                        | --                                               | --                                                              | --                                                                       | --                                                              | --                                                                       | --                                                              | --                                                                           |
| 22... | --                                                           | 7.7                                            | --                                        | --                                               | --                                                              | --                                                                       | --                                                              | --                                                                       | --                                                              | --                                                                           |
| 22... | --                                                           | 7.8                                            | --                                        | --                                               | --                                                              | --                                                                       | --                                                              | --                                                                       | --                                                              | --                                                                           |
| 22... | --                                                           | 7.4                                            | --                                        | --                                               | --                                                              | --                                                                       | --                                                              | --                                                                       | --                                                              | --                                                                           |

## CALOOSAHATCHEE RIVER

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

## WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE  | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00666) | PHOS-<br>PHORUS,<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3)<br>(00900) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT FLD<br>MG/L AS<br>CACO3<br>(00902) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA)<br>(00915) |
|-------|--------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------|
| DEC   |                                                                                |                                                                 |                                                                          |                                                        |                                                                 |                                                                           |                                                          |                                                   |                                                                              |                                                         |
| 03... | 0.96                                                                           | 0.760                                                           | 0.790                                                                    | 0.150                                                  | 0.140                                                           | 0.120                                                                     | 23                                                       | 250                                               | 76                                                                           | 77                                                      |
| 03... | --                                                                             | --                                                              | --                                                                       | --                                                     | --                                                              | --                                                                        | --                                                       | --                                                | --                                                                           | --                                                      |
| 03... | --                                                                             | --                                                              | --                                                                       | --                                                     | --                                                              | --                                                                        | --                                                       | --                                                | --                                                                           | --                                                      |
| 03... | --                                                                             | --                                                              | --                                                                       | --                                                     | --                                                              | --                                                                        | --                                                       | --                                                | --                                                                           | --                                                      |
| JAN   |                                                                                |                                                                 |                                                                          |                                                        |                                                                 |                                                                           |                                                          |                                                   |                                                                              |                                                         |
| 22... | --                                                                             | --                                                              | --                                                                       | --                                                     | --                                                              | --                                                                        | --                                                       | --                                                | --                                                                           | --                                                      |
| 22... | 1.2                                                                            | 0.480                                                           | 0.520                                                                    | 0.180                                                  | 0.170                                                           | 0.100                                                                     | 22                                                       | 240                                               | 60                                                                           | 76                                                      |
| 22... | --                                                                             | --                                                              | --                                                                       | --                                                     | --                                                              | --                                                                        | --                                                       | --                                                | --                                                                           | --                                                      |
| 22... | --                                                                             | --                                                              | --                                                                       | --                                                     | --                                                              | --                                                                        | --                                                       | --                                                | --                                                                           | --                                                      |
| 22... | --                                                                             | --                                                              | --                                                                       | --                                                     | --                                                              | --                                                                        | --                                                       | --                                                | --                                                                           | --                                                      |
| 22... | --                                                                             | --                                                              | --                                                                       | --                                                     | --                                                              | --                                                                        | --                                                       | --                                                | --                                                                           | --                                                      |

| DATE  | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00925) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO<br>(00931) | PERCENT<br>SODIUM<br>(00932) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F)<br>(00950) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SIO2)<br>(00955) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE)<br>(01046) |
|-------|-----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------|
| DEC   |                                                                 |                                                         |                                                    |                              |                                                                |                                                                |                                                          |                                                               |                                                              |                                                       |
| 03... | 14                                                              | 61                                                      | 2                                                  | 34                           | 5.2                                                            | 100                                                            | 37                                                       | 0.20                                                          | 9.0                                                          | 70                                                    |
| 03... | --                                                              | --                                                      | --                                                 | --                           | --                                                             | --                                                             | --                                                       | --                                                            | --                                                           | --                                                    |
| 03... | --                                                              | --                                                      | --                                                 | --                           | --                                                             | --                                                             | --                                                       | --                                                            | --                                                           | --                                                    |
| 03... | --                                                              | --                                                      | --                                                 | --                           | 150                                                            | --                                                             | --                                                       | --                                                            | --                                                           | --                                                    |
| JAN   |                                                                 |                                                         |                                                    |                              |                                                                |                                                                |                                                          |                                                               |                                                              |                                                       |
| 22... | --                                                              | --                                                      | --                                                 | --                           | --                                                             | --                                                             | --                                                       | --                                                            | --                                                           | --                                                    |
| 22... | 12                                                              | 48                                                      | 1                                                  | 30                           | 4.7                                                            | 82                                                             | 62                                                       | 1.0                                                           | 9.2                                                          | 170                                                   |
| 22... | --                                                              | --                                                      | --                                                 | --                           | --                                                             | --                                                             | --                                                       | --                                                            | --                                                           | --                                                    |
| 22... | --                                                              | --                                                      | --                                                 | --                           | --                                                             | --                                                             | --                                                       | --                                                            | --                                                           | --                                                    |
| 22... | --                                                              | --                                                      | --                                                 | --                           | --                                                             | --                                                             | --                                                       | --                                                            | --                                                           | --                                                    |
| 22... | --                                                              | --                                                      | --                                                 | --                           | 93                                                             | --                                                             | --                                                       | --                                                            | --                                                           | --                                                    |

| DATE  | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR)<br>(01080) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML)<br>(31625) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML)<br>(31673) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L)<br>(70301) | PHOS-<br>PHORUS,<br>ORTHO,<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) | ELEV.<br>OF LAND<br>SURFACE<br>DATUM<br>(FT.<br>ABOVE<br>NGVD)<br>(72000) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM)<br>(90095) | ALKA-<br>LINITY<br>LAB<br>(MG/L<br>AS<br>CACO3)<br>(90410) | HARD-<br>NESS<br>NONCAR-<br>BONATE<br>(MG/L<br>AS<br>CACO3)<br>(95902) |
|-------|-----------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------|
| DEC   |                                                                 |                                                                           |                                                                               |                                                                               |                                                                                |                                                                  |                                                                           |                                                                     |                                                            |                                                                        |
| 03... | 740                                                             | 15                                                                        | 72                                                                            | 461                                                                           | 410                                                                            | 0.130                                                            | 0                                                                         | 751                                                                 | 175                                                        | 76                                                                     |
| 03... | --                                                              | --                                                                        | --                                                                            | --                                                                            | --                                                                             | --                                                               | 0                                                                         | --                                                                  | --                                                         | --                                                                     |
| 03... | --                                                              | --                                                                        | --                                                                            | --                                                                            | --                                                                             | --                                                               | 0                                                                         | --                                                                  | --                                                         | --                                                                     |
| 03... | --                                                              | --                                                                        | --                                                                            | --                                                                            | --                                                                             | --                                                               | 0                                                                         | --                                                                  | --                                                         | --                                                                     |
| JAN   |                                                                 |                                                                           |                                                                               |                                                                               |                                                                                |                                                                  |                                                                           |                                                                     |                                                            |                                                                        |
| 22... | --                                                              | --                                                                        | --                                                                            | --                                                                            | --                                                                             | --                                                               | 0                                                                         | --                                                                  | --                                                         | --                                                                     |
| 22... | 900                                                             | 5                                                                         | 23                                                                            | 482                                                                           | 400                                                                            | 0.100                                                            | 0                                                                         | 682                                                                 | 180                                                        | 60                                                                     |
| 22... | --                                                              | 5                                                                         | 23                                                                            | --                                                                            | --                                                                             | --                                                               | 0                                                                         | --                                                                  | --                                                         | --                                                                     |
| 22... | --                                                              | --                                                                        | --                                                                            | --                                                                            | --                                                                             | --                                                               | 0                                                                         | --                                                                  | --                                                         | --                                                                     |
| 22... | --                                                              | --                                                                        | --                                                                            | --                                                                            | --                                                                             | --                                                               | 0                                                                         | --                                                                  | --                                                         | --                                                                     |
| 22... | --                                                              | --                                                                        | --                                                                            | --                                                                            | --                                                                             | --                                                               | 0                                                                         | --                                                                  | --                                                         | --                                                                     |

## CALOOSAHATCHEE RIVER

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

## WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE  | TIME | SAM-<br>PLING<br>DEPTH<br>(FEET)<br>(00003) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | TEMPER-<br>ATURE<br>AIR<br>(DEG C)<br>(00020) | BARO-<br>METRIC<br>PRES-<br>SURE<br>(MM<br>OF<br>HG)<br>(00025) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | WEATHER<br>(WMO<br>CODE<br>NUMBER)<br>(00041) | GAGE<br>HEIGHT<br>(FEET<br>ABOVE<br>DATUM)<br>(00065) | TRANS-<br>PAR-<br>ENCY<br>(SECCHI<br>DISK)<br>(IN)<br>(00077) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) |
|-------|------|---------------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------|
| APR   |      |                                             |                                                 |                                               |                                                                 |                                                                    |                                                                   |                                               |                                                       |                                                               |                                                         |
| 15... | 1010 | --                                          | --                                              | --                                            | --                                                              | 1028                                                               | 1028                                                              | --                                            | --                                                    | --                                                            | --                                                      |
| 15... | 1010 | 0.50                                        | 25.0                                            | --                                            | 764                                                             | 1028                                                               | 1028                                                              | 1                                             | 3.05                                                  | 40.0                                                          | 50                                                      |
| 15... | 1011 | 3.00                                        | 25.0                                            | --                                            | --                                                              | 1028                                                               | 1028                                                              | --                                            | --                                                    | --                                                            | --                                                      |
| 15... | 1012 | 5.00                                        | 24.5                                            | --                                            | --                                                              | 1028                                                               | 1028                                                              | --                                            | --                                                    | --                                                            | --                                                      |
| 15... | 1013 | 17.0                                        | 24.5                                            | --                                            | --                                                              | 1028                                                               | 1028                                                              | --                                            | --                                                    | --                                                            | --                                                      |
| JUL   |      |                                             |                                                 |                                               |                                                                 |                                                                    |                                                                   |                                               |                                                       |                                                               |                                                         |
| 16... | 1325 | --                                          | --                                              | --                                            | --                                                              | 1028                                                               | 1028                                                              | --                                            | --                                                    | --                                                            | --                                                      |
| 16... | 1325 | 0.50                                        | 34.5                                            | 33.0                                          | 769                                                             | 1028                                                               | 1028                                                              | 1                                             | 3.18                                                  | 28.0                                                          | 160                                                     |
| 16... | 1326 | 3.00                                        | 32.5                                            | --                                            | --                                                              | 1028                                                               | 1028                                                              | --                                            | --                                                    | --                                                            | --                                                      |
| 16... | 1327 | 5.00                                        | 30.5                                            | --                                            | --                                                              | 1028                                                               | 1028                                                              | --                                            | --                                                    | --                                                            | --                                                      |
| 16... | 1328 | 17.0                                        | 29.0                                            | --                                            | --                                                              | 1028                                                               | 1028                                                              | --                                            | --                                                    | --                                                            | --                                                      |

| DATE  | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | PH<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS)<br>(00403) | ALKA-<br>LITY<br>WH WAT<br>TOTAL<br>FIELD<br>MG/L AS<br>CACO3<br>(00410) | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00608) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | NITRO-<br>GEN,<br>NITRITE<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00613) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>DIS.<br>(MG/L<br>AS N)<br>(00623) |
|-------|--------------------------------------------------------------|------------------------------------------------|-------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------|
| APR   |                                                              |                                                |                                           |                                                  |                                                                          |                                                                          |                                                                 |                                                                          |                                                                 |                                                                              |
| 15... | --                                                           | --                                             | --                                        | --                                               | --                                                                       | --                                                                       | --                                                              | --                                                                       | --                                                              | --                                                                           |
| 15... | 922                                                          | 8.6                                            | --                                        | 7.90                                             | 175                                                                      | 0.020                                                                    | 0.020                                                           | 0.010                                                                    | 0.010                                                           | 1.1                                                                          |
| 15... | 929                                                          | 8.4                                            | --                                        | --                                               | --                                                                       | --                                                                       | --                                                              | --                                                                       | --                                                              | --                                                                           |
| 15... | 929                                                          | 8.3                                            | --                                        | --                                               | --                                                                       | --                                                                       | --                                                              | --                                                                       | --                                                              | --                                                                           |
| 15... | 2020                                                         | 7.5                                            | --                                        | --                                               | --                                                                       | --                                                                       | --                                                              | --                                                                       | --                                                              | --                                                                           |
| JUL   |                                                              |                                                |                                           |                                                  |                                                                          |                                                                          |                                                                 |                                                                          |                                                                 |                                                                              |
| 16... | --                                                           | --                                             | --                                        | --                                               | --                                                                       | --                                                                       | --                                                              | --                                                                       | --                                                              | --                                                                           |
| 16... | 480                                                          | 5.5                                            | 6.80                                      | 7.40                                             | 163                                                                      | 0.050                                                                    | 0.050                                                           | <0.010                                                                   | <0.010                                                          | 1.8                                                                          |
| 16... | --                                                           | 5.2                                            | --                                        | --                                               | --                                                                       | --                                                                       | --                                                              | --                                                                       | --                                                              | --                                                                           |
| 16... | --                                                           | 4.4                                            | --                                        | --                                               | --                                                                       | --                                                                       | --                                                              | --                                                                       | --                                                              | --                                                                           |
| 16... | 480                                                          | 2.7                                            | --                                        | --                                               | --                                                                       | --                                                                       | --                                                              | --                                                                       | --                                                              | --                                                                           |



## CALOOSAHATCHEE RIVER

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

## WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE  | NITRO-<br>GEN, AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L<br>AS N)<br>(00631) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00666) | PHOS-<br>PHORUS,<br>ORTHO,<br>DIS-<br>SOLVED<br>(MG/L<br>AS P)<br>(00671) | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680) | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3)<br>(00900) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT FLD<br>MG/L AS<br>CACO3<br>(00902) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA)<br>(00915) |
|-------|--------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------|
| APR   |                                                                                |                                                                 |                                                                          |                                                        |                                                                 |                                                                           |                                                          |                                                   |                                                                              |                                                         |
| 15... | --                                                                             | --                                                              | --                                                                       | --                                                     | --                                                              | --                                                                        | --                                                       | --                                                | --                                                                           | --                                                      |
| 15... | 1.2                                                                            | 0.400                                                           | 0.430                                                                    | 0.150                                                  | 0.120                                                           | 0.110                                                                     | 25                                                       | 260                                               | 87                                                                           | 75                                                      |
| 15... | --                                                                             | --                                                              | --                                                                       | --                                                     | --                                                              | --                                                                        | --                                                       | --                                                | --                                                                           | --                                                      |
| 15... | --                                                                             | --                                                              | --                                                                       | --                                                     | --                                                              | --                                                                        | --                                                       | --                                                | --                                                                           | --                                                      |
| 15... | --                                                                             | --                                                              | --                                                                       | --                                                     | --                                                              | --                                                                        | --                                                       | --                                                | --                                                                           | --                                                      |
| JUL   |                                                                                |                                                                 |                                                                          |                                                        |                                                                 |                                                                           |                                                          |                                                   |                                                                              |                                                         |
| 16... | --                                                                             | --                                                              | --                                                                       | --                                                     | --                                                              | --                                                                        | --                                                       | --                                                | --                                                                           | --                                                      |
| 16... | 1.6                                                                            | 0.300                                                           | 0.300                                                                    | 0.180                                                  | 0.180                                                           | 0.180                                                                     | --                                                       | 170                                               | 9                                                                            | 55                                                      |
| 16... | --                                                                             | --                                                              | --                                                                       | --                                                     | --                                                              | --                                                                        | --                                                       | --                                                | --                                                                           | --                                                      |
| 16... | --                                                                             | --                                                              | --                                                                       | --                                                     | --                                                              | --                                                                        | --                                                       | --                                                | --                                                                           | --                                                      |
| 16... | --                                                                             | --                                                              | --                                                                       | --                                                     | --                                                              | --                                                                        | --                                                       | --                                                | --                                                                           | --                                                      |

| DATE  | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG)<br>(00925) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO<br>(00931) | PERCENT<br>SODIUM<br>(00932) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F)<br>(00950) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SIO2)<br>(00955) | IRON,<br>DIS-<br>SOLVED<br>(UG/L<br>AS FE)<br>(01046) |
|-------|-----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------|
| APR   |                                                                 |                                                         |                                                    |                              |                                                                |                                                                |                                                          |                                                               |                                                              |                                                       |
| 15... | --                                                              | --                                                      | --                                                 | --                           | --                                                             | --                                                             | --                                                       | --                                                            | --                                                           | --                                                    |
| 15... | 18                                                              | 80                                                      | 2                                                  | 39                           | 8.5                                                            | 140                                                            | 57                                                       | 0.50                                                          | 4.3                                                          | 60                                                    |
| 15... | --                                                              | --                                                      | --                                                 | --                           | --                                                             | --                                                             | --                                                       | --                                                            | --                                                           | --                                                    |
| 15... | --                                                              | --                                                      | --                                                 | --                           | --                                                             | 860                                                            | --                                                       | --                                                            | --                                                           | --                                                    |
| JUL   |                                                                 |                                                         |                                                    |                              |                                                                |                                                                |                                                          |                                                               |                                                              |                                                       |
| 16... | --                                                              | --                                                      | --                                                 | --                           | --                                                             | --                                                             | --                                                       | --                                                            | --                                                           | --                                                    |
| 16... | 8.3                                                             | 26                                                      | 0.9                                                | 24                           | 4.5                                                            | 46                                                             | 31                                                       | 0.40                                                          | 7.9                                                          | 430                                                   |
| 16... | --                                                              | --                                                      | --                                                 | --                           | --                                                             | --                                                             | --                                                       | --                                                            | --                                                           | --                                                    |
| 16... | --                                                              | --                                                      | --                                                 | --                           | --                                                             | --                                                             | --                                                       | --                                                            | --                                                           | --                                                    |
| 16... | --                                                              | --                                                      | --                                                 | --                           | 46                                                             | --                                                             | --                                                       | --                                                            | --                                                           | --                                                    |

| DATE  | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR)<br>(01080) | COLI-<br>FORM,<br>FECAL,<br>0.7<br>UM-MF<br>(COLS./<br>100 ML)<br>(31625) | STREP-<br>TOCOCCI<br>FECAL,<br>KF AGAR<br>(COLS.<br>PER<br>100 ML)<br>(31673) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) | SOLIDS,<br>SUM OF<br>CONSTITUENTS,<br>DIS-<br>SOLVED<br>(MG/L)<br>(70301) | PHOS-<br>PHORUS,<br>ORTHO,<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) | ELEV.<br>OF LAND<br>SURFACE<br>DATUM<br>(FT.<br>ABOVE<br>NGVD)<br>(72000) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM)<br>(90095) | ALKA-<br>LINITY<br>LAB<br>(MG/L<br>AS<br>CACO3)<br>(90410) | HARD-<br>NESS<br>NONCAR-<br>BONATE<br>AS<br>CACO3)<br>(95902) |
|-------|-----------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------|
| APR   |                                                                 |                                                                           |                                                                               |                                                                               |                                                                           |                                                                  |                                                                           |                                                                     |                                                            |                                                               |
| 15... | --                                                              | 13                                                                        | 32                                                                            | --                                                                            | --                                                                        | 0                                                                | --                                                                        | --                                                                  | --                                                         | --                                                            |
| 15... | 910                                                             | 13                                                                        | 32                                                                            | 519                                                                           | 490                                                                       | 0.120                                                            | 872                                                                       | 175                                                                 | --                                                         | 87                                                            |
| 15... | --                                                              | --                                                                        | --                                                                            | --                                                                            | --                                                                        | 0                                                                | --                                                                        | --                                                                  | --                                                         | --                                                            |
| 15... | --                                                              | --                                                                        | --                                                                            | --                                                                            | --                                                                        | 0                                                                | --                                                                        | --                                                                  | --                                                         | --                                                            |
| 15... | --                                                              | --                                                                        | --                                                                            | --                                                                            | --                                                                        | 0                                                                | --                                                                        | --                                                                  | --                                                         | --                                                            |
| JUL   |                                                                 |                                                                           |                                                                               |                                                                               |                                                                           |                                                                  |                                                                           |                                                                     |                                                            |                                                               |
| 16... | --                                                              | 100                                                                       | 200                                                                           | --                                                                            | --                                                                        | 0                                                                | --                                                                        | --                                                                  | --                                                         | --                                                            |
| 16... | 510                                                             | --                                                                        | --                                                                            | 324                                                                           | 280                                                                       | 0.180                                                            | 453                                                                       | 128                                                                 | --                                                         | 9                                                             |
| 16... | --                                                              | --                                                                        | --                                                                            | --                                                                            | --                                                                        | 0                                                                | --                                                                        | --                                                                  | --                                                         | --                                                            |
| 16... | --                                                              | --                                                                        | --                                                                            | --                                                                            | --                                                                        | 0                                                                | --                                                                        | --                                                                  | --                                                         | --                                                            |
| 16... | --                                                              | --                                                                        | --                                                                            | --                                                                            | --                                                                        | 0                                                                | --                                                                        | --                                                                  | --                                                         | --                                                            |

## CHARLOTTE HARBOR AND COASTAL AREA

264437081550100 GATOR SLOUGH AT U.S. 41 NEAR FT. MYERS, FL

LOCATION.--Lat 26°44'37", long 81°55'01", in SW¼ sec.9, T.43 S., R.24 E., Lee County, Hydrologic Unit 03100103, at upstream side of bridge on U.S. Highway 41, 6.3 mi north of Ft. Myers and about 11 mi upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--1973 to 1984 (annual maximum gage heights only), June 1984 to current year. Prior to 1984, published as Gator Slough near Ft. Myers, FL.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 65 ft<sup>3</sup>/s July 21, 1984, gage height, 18.13 ft; no flow for many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 49 ft<sup>3</sup>/s Aug. 20, gage height, 17.63 ft; maximum gage height, 17.65 ft June 18; no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT   | NOV  | DEC   | JAN  | FEB  | MAR   | APR  | MAY  | JUN    | JUL   | AUG   | SEP   |
|-------|-------|------|-------|------|------|-------|------|------|--------|-------|-------|-------|
| 1     | 4.8   | 4.2  | e1.0  | .22  | e.00 | .00   | .40  | e.00 | .00    | 33    | 3.3   | 7.0   |
| 2     | 5.1   | e2.5 | e .80 | .22  | e.00 | .00   | e.30 | e.00 | e.00   | 28    | 2.9   | 7.0   |
| 3     | 5.3   | e2.0 | e .80 | .20  | e.00 | .00   | .26  | e.00 | .00    | 23    | 2.4   | 7.0   |
| 4     | 5.2   | e2.0 | e .80 | .18  | .00  | .00   | .22  | e.00 | .00    | 26    | 2.7   | 6.8   |
| 5     | 5.2   | e2.0 | e .90 | .22  | .00  | .00   | .17  | .00  | .00    | 24    | 8.7   | 7.2   |
| 6     | 7.5   | e2.0 | .97   | e.25 | .00  | .00   | .13  | .00  | .00    | 19    | 19    | 7.8   |
| 7     | 7.9   | e2.0 | .79   | e.25 | .00  | .00   | .11  | .00  | .00    | 15    | 11    | 8.4   |
| 8     | 7.0   | e1.5 | .70   | e.20 | .00  | .00   | .10  | .00  | .00    | 11    | 8.9   | 8.6   |
| 9     | 6.2   | e1.5 | .61   | e.20 | .00  | .00   | .07  | .00  | .24    | 9.1   | 6.2   | 11    |
| 10    | 5.6   | e1.5 | .57   | e.25 | .00  | .12   | .06  | .00  | .79    | 8.6   | 4.2   | 31    |
| 11    | 5.2   | e1.5 | .50   | e.25 | .00  | 1.1   | .04  | .00  | .88    | 8.9   | 7.1   | 26    |
| 12    | 4.9   | e1.5 | .50   | e.20 | .00  | 1.3   | .03  | .00  | 4.7    | 7.7   | 14    | 18    |
| 13    | 4.7   | e1.5 | .50   | e.15 | .00  | 1.0   | .08  | .00  | 3.7    | 6.9   | 16    | 12    |
| 14    | 5.4   | e1.5 | .66   | e.15 | .00  | 2.1   | .04  | .00  | 3.1    | 5.7   | 12    | 8.8   |
| 15    | 5.1   | e1.5 | .62   | e.15 | .00  | 4.5   | .02  | .00  | 10     | 4.6   | 8.7   | 7.0   |
| 16    | 4.6   | e1.5 | .55   | e.10 | .00  | 4.0   | .00  | .00  | 28     | 3.8   | 6.7   | 5.8   |
| 17    | 4.2   | e1.5 | .55   | e.10 | .00  | 3.2   | .00  | .00  | 40     | 3.0   | 5.8   | 4.9   |
| 18    | 3.8   | e1.0 | .52   | e.10 | .00  | 2.7   | .00  | .00  | 44     | 2.3   | 5.4   | 4.2   |
| 19    | 3.6   | e1.0 | .45   | e.10 | .00  | 2.3   | .00  | .00  | 39     | 1.9   | 5.4   | 3.7   |
| 20    | 3.4   | e2.0 | .40   | e.10 | .00  | 1.9   | .00  | .00  | 31     | 3.0   | 22    | 3.4   |
| 21    | 3.3   | e1.5 | .39   | e.10 | .00  | 1.6   | .00  | .00  | 34     | 2.7   | 43    | 3.2   |
| 22    | 3.1   | e1.5 | .37   | e.10 | .00  | 1.4   | .00  | .00  | 30     | 2.1   | 33    | 2.9   |
| 23    | 3.0   | e1.5 | .34   | e.10 | .00  | 1.2   | .00  | .00  | 32     | 2.1   | 21    | 2.8   |
| 24    | 2.7   | e1.5 | .36   | e.10 | .00  | .98   | .00  | .00  | 44     | 4.1   | 15    | 5.3   |
| 25    | 2.4   | e1.5 | .34   | e.10 | .00  | .85   | .00  | .00  | 34     | 4.1   | 11    | 6.4   |
| 26    | 2.4   | e1.5 | .28   | e.10 | .00  | .77   | .00  | .00  | 24     | 4.2   | 9.6   | 4.9   |
| 27    | 2.5   | e1.5 | .27   | e.10 | .00  | .94   | .00  | .00  | 21     | 5.0   | 10    | 3.9   |
| 28    | 2.6   | e1.0 | .27   | e.10 | .00  | .78   | .00  | .00  | 31     | 5.2   | 8.4   | 3.3   |
| 29    | 2.4   | e1.0 | .26   | e.10 | ---  | .62   | e.00 | .00  | 28     | 4.7   | 7.7   | 2.7   |
| 30    | 2.3   | e1.0 | .24   | e.10 | ---  | .55   | e.00 | .00  | 27     | 4.2   | 7.1   | 2.3   |
| 31    | 2.6   | ---  | .21   | e.10 | ---  | .46   | ---  | .00  | ---    | 3.6   | 6.6   | ---   |
| TOTAL | 134.0 | 49.2 | 16.52 | 4.69 | .00  | 34.37 | 2.03 | .00  | 510.41 | 286.5 | 344.8 | 233.3 |
| MEAN  | 4.32  | 1.64 | .53   | .15  | .000 | 1.11  | .068 | .000 | 17.0   | 9.24  | 11.1  | 7.78  |
| MAX   | 7.9   | 4.2  | 1.0   | .25  | .00  | 4.5   | .40  | .00  | 44     | 33    | 43    | 31    |
| MIN   | 2.3   | 1.0  | .21   | .10  | .00  | .00   | .00  | .00  | .00    | 1.9   | 2.4   | 2.3   |
| AC-FT | 266   | 98   | 33    | 9.3  | .00  | 68    | 4.0  | .00  | 1010   | 568   | 684   | 463   |

CAL YR 1985 TOTAL 1520.21 MEAN 4.16 MAX 40 MIN .00 AC-FT 3020  
WTR YR 1986 TOTAL 1615.82 MEAN 4.43 MAX 44 MIN .00 AC-FT 3200

e Estimated

## CHARLOTTE HARBOR AND COASTAL AREA

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264437081550100 GATOR SLOUGH AT U.S. 41 NEAR FT. MYERS, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1    | 15.68 | 15.58 | ---   | 14.98 | ---   | 14.71 | 15.04 | ---   | 14.52 | 17.26 | 15.65 | 15.57 |
| 2    | 15.70 | ---   | ---   | 14.98 | ---   | 14.71 | ---   | ---   | ---   | 17.08 | 15.59 | 15.55 |
| 3    | 15.72 | ---   | ---   | 14.98 | ---   | 14.70 | 15.00 | ---   | 14.60 | 16.86 | 15.53 | 15.56 |
| 4    | 15.70 | ---   | ---   | 14.97 | 14.78 | 14.69 | 14.98 | ---   | 14.60 | 17.01 | 15.53 | 15.54 |
| 5    | 15.70 | ---   | 15.18 | 14.98 | 14.77 | 14.69 | 14.96 | 14.62 | 14.60 | 16.92 | 15.87 | 15.57 |
| 6    | 15.88 | ---   | 15.17 | ---   | 14.76 | 14.69 | 14.95 | 14.63 | 14.60 | 16.72 | 16.42 | 15.62 |
| 7    | 15.91 | ---   | 15.14 | ---   | 14.76 | 14.69 | 14.94 | 14.64 | 14.59 | 16.48 | 15.97 | 15.66 |
| 8    | 15.84 | ---   | 15.13 | ---   | 14.75 | 14.68 | 14.93 | 14.64 | 14.62 | 16.30 | 15.86 | 15.67 |
| 9    | 15.78 | ---   | 15.11 | ---   | 14.76 | 14.67 | 14.91 | 14.64 | 14.99 | 16.16 | 15.66 | 15.83 |
| 10   | 15.74 | ---   | 15.10 | ---   | 14.76 | 14.80 | 14.90 | 14.63 | 15.15 | 16.13 | 15.49 | 16.98 |
| 11   | 15.70 | ---   | 15.08 | ---   | 14.76 | 15.17 | 14.87 | 14.63 | 15.17 | 16.16 | 15.68 | 16.78 |
| 12   | 15.66 | ---   | 15.08 | ---   | 14.75 | 15.20 | 14.86 | 14.62 | 15.61 | 16.08 | 16.16 | 16.40 |
| 13   | 15.65 | ---   | 15.07 | ---   | 14.74 | 15.16 | 14.91 | 14.62 | 15.53 | 16.03 | 16.28 | 16.07 |
| 14   | 15.71 | ---   | 15.11 | ---   | 14.73 | 15.28 | 14.87 | 14.61 | 15.48 | 15.94 | 16.05 | 15.86 |
| 15   | 15.68 | ---   | 15.10 | ---   | 14.72 | 15.53 | 14.84 | 14.61 | 15.96 | 15.86 | 15.84 | 15.73 |
| 16   | 15.63 | ---   | 15.08 | ---   | 14.71 | 15.49 | 14.82 | 14.61 | 16.95 | 15.79 | 15.70 | 15.64 |
| 17   | 15.60 | ---   | 15.08 | ---   | 14.71 | 15.41 | 14.80 | 14.60 | 17.46 | 15.72 | 15.63 | 15.56 |
| 18   | 15.56 | ---   | 15.08 | ---   | 14.71 | 15.36 | 14.77 | 14.60 | 17.62 | 15.66 | 15.60 | 15.50 |
| 19   | 15.53 | ---   | 15.06 | ---   | 14.71 | 15.33 | 14.76 | 14.59 | 17.43 | 15.63 | 15.60 | 15.45 |
| 20   | 15.51 | ---   | 15.05 | ---   | 14.73 | 15.28 | 14.74 | 14.61 | 17.15 | 15.75 | 16.44 | 15.42 |
| 21   | 15.50 | ---   | 15.05 | ---   | 14.73 | 15.25 | 14.72 | 14.62 | 17.24 | 15.72 | 17.43 | 15.40 |
| 22   | 15.48 | ---   | 15.04 | ---   | 14.73 | 15.21 | 14.71 | 14.61 | 17.11 | 15.66 | 17.02 | 15.37 |
| 23   | 15.47 | ---   | 15.03 | ---   | 14.72 | 15.18 | 14.69 | 14.60 | 17.17 | 15.67 | 16.52 | 15.37 |
| 24   | 15.45 | ---   | 15.04 | ---   | 14.72 | 15.15 | 14.68 | 14.59 | 17.63 | 15.86 | 16.16 | 15.60 |
| 25   | 15.42 | ---   | 15.03 | ---   | 14.72 | 15.13 | 14.67 | 14.59 | 17.28 | 15.85 | 15.94 | 15.69 |
| 26   | 15.41 | ---   | 15.01 | ---   | 14.70 | 15.12 | 14.67 | 14.58 | 16.86 | 15.85 | 15.83 | 15.57 |
| 27   | 15.42 | ---   | 15.00 | ---   | 14.70 | 15.15 | 14.65 | 14.57 | 16.72 | 15.90 | 15.85 | 15.47 |
| 28   | 15.43 | ---   | 15.00 | ---   | 14.70 | 15.12 | 14.64 | 14.55 | 17.18 | 15.90 | 15.73 | 15.41 |
| 29   | 15.41 | ---   | 15.00 | ---   | ---   | 15.09 | ---   | 14.53 | 17.07 | 15.84 | 15.66 | 15.36 |
| 30   | 15.40 | ---   | 14.99 | ---   | ---   | 15.07 | ---   | 14.51 | 17.02 | 15.77 | 15.60 | 15.32 |
| 31   | 15.42 | ---   | 14.98 | ---   | ---   | 15.06 | ---   | 14.49 | ---   | 15.70 | 15.55 | ---   |
| MEAN | 15.60 | ---   | ---   | ---   | ---   | 15.06 | ---   | ---   | ---   | 16.11 | 15.93 | 15.68 |
| MAX  | 15.91 | ---   | ---   | ---   | ---   | 15.53 | ---   | ---   | ---   | 17.26 | 17.43 | 16.98 |
| MIN  | 15.40 | ---   | ---   | ---   | ---   | 14.67 | ---   | ---   | ---   | 15.63 | 15.49 | 15.32 |

## CHARLOTTE HARBOR AND COASTAL AREA

264139082022100 GATOR SLOUGH AT SR 765 NEAR FT. MYERS, FL

LOCATION.--Lat 26°41'39", long 82°02'01" in NW¼ sec.32, T.43 S., R.23 E., Lee County, Hydrologic Unit 03100103, 100 ft upstream from bridge on State Highway 765 (Burnt Store Road) in Cape Coral, 2.7 mi upstream from mouth and 12 mi northwest of Ft. Myers.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--1973-83 (annual maximum gage heights, only), May 1984 to current year. Prior to 1984, published as "near Pine Island."

GAGE.--Water-stage recorder and concrete control. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--No estimated daily discharges. Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 901 ft<sup>3</sup>/s Aug. 21, 1986, gage height, 4.51 ft; no flow for many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 901 ft<sup>3</sup>/s Aug. 21, gage height, 4.51 ft; no flow for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY   | OCT  | NOV  | DEC  | JAN   | FEB  | MAR   | APR    | MAY   | JUN    | JUL  | AUG  | SEP  |
|-------|------|------|------|-------|------|-------|--------|-------|--------|------|------|------|
| 1     | 51   | 182  | 16   | 14    | 5.5  | 4.8   | 8.2    | .00   | 7.9    | 92   | 18   | 77   |
| 2     | 81   | 39   | 16   | 14    | 5.0  | 5.0   | 8.2    | .00   | 23     | 81   | 21   | 68   |
| 3     | 139  | 35   | 16   | 14    | 5.0  | 5.0   | 8.2    | .00   | 21     | 68   | 21   | 59   |
| 4     | 121  | 34   | 16   | 14    | 3.8  | 3.9   | 8.2    | .00   | 18     | 73   | 18   | 51   |
| 5     | 97   | 33   | 16   | 15    | 2.8  | 2.4   | 7.0    | .44   | 18     | 114  | 20   | 48   |
| 6     | 120  | 31   | 15   | 16    | 2.9  | 2.4   | 6.5    | 2.2   | 18     | 102  | 53   | 48   |
| 7     | 119  | 29   | 13   | 15    | 2.4  | 2.4   | 5.9    | 5.4   | 18     | 85   | 99   | 51   |
| 8     | 102  | 29   | 12   | 14    | 2.5  | 2.4   | 5.0    | 3.0   | 17     | 66   | 134  | 50   |
| 9     | 84   | 27   | 12   | 14    | 2.4  | 3.4   | 5.0    | .80   | 24     | 54   | 123  | 65   |
| 10    | 77   | 27   | 12   | 16    | 2.4  | 12    | 5.0    | .69   | 36     | 46   | 125  | 355  |
| 11    | 69   | 25   | 14   | 16    | 2.3  | 22    | 5.0    | .00   | 37     | 44   | 69   | 407  |
| 12    | 62   | 24   | 13   | 16    | 3.4  | 17    | 5.0    | .00   | 37     | 39   | 70   | 296  |
| 13    | 58   | 24   | 12   | 13    | 3.7  | 14    | 7.1    | .00   | 44     | 32   | 77   | 194  |
| 14    | 57   | 23   | 15   | 9.9   | 3.1  | 23    | 5.6    | .00   | 54     | 32   | 77   | 130  |
| 15    | 57   | 22   | 15   | 9.7   | 2.4  | 27    | 3.7    | .00   | 63     | 28   | 63   | 100  |
| 16    | 53   | 22   | 14   | 8.2   | 3.2  | 26    | 3.7    | .00   | 148    | 26   | 50   | 76   |
| 17    | 45   | 21   | 14   | 8.2   | 2.5  | 24    | 2.7    | .00   | 158    | 24   | 44   | 59   |
| 18    | 45   | 19   | 14   | 8.2   | 4.3  | 23    | 1.4    | .00   | 347    | 23   | 45   | 60   |
| 19    | 44   | 18   | 14   | 8.2   | 5.0  | 21    | 1.0    | .00   | 478    | 20   | 49   | 71   |
| 20    | 42   | 29   | 15   | 8.2   | 5.0  | 19    | .50    | 4.2   | 324    | 20   | 292  | 61   |
| 21    | 42   | 25   | 16   | 8.2   | 5.0  | 17    | .50    | 3.8   | 212    | 20   | 842  | 53   |
| 22    | 41   | 24   | 16   | 8.2   | 5.0  | 15    | .50    | 2.4   | 173    | 18   | 636  | 45   |
| 23    | 39   | 24   | 16   | 8.2   | 4.3  | 14    | .39    | 1.4   | 169    | 17   | 479  | 43   |
| 24    | 37   | 24   | 15   | 6.7   | 3.2  | 14    | .00    | .00   | 149    | 15   | 315  | 46   |
| 25    | 37   | 24   | 14   | 6.5   | 1.6  | 15    | .00    | .00   | 170    | 14   | 231  | 48   |
| 26    | 36   | 24   | 13   | 7.0   | 2.4  | 16    | .00    | .16   | 133    | 14   | 166  | 50   |
| 27    | 34   | 20   | 12   | 5.4   | 2.4  | 14    | .00    | .50   | 101    | 14   | 146  | 45   |
| 28    | 34   | 18   | 12   | 6.0   | 2.4  | 13    | .00    | .50   | 101    | 17   | 137  | 39   |
| 29    | 34   | 18   | 12   | 6.5   | ---  | 12    | .00    | .50   | 117    | 18   | 118  | 37   |
| 30    | 33   | 17   | 14   | 6.5   | ---  | 10    | .00    | .28   | 113    | 18   | 97   | 35   |
| 31    | 93   | ---  | 14   | 6.5   | ---  | 8.2   | ---    | .00   | ---    | 18   | 81   | ---  |
| TOTAL | 1983 | 911  | 438  | 327.3 | 95.9 | 407.9 | 104.29 | 26.27 | 3328.9 | 1252 | 4716 | 2767 |
| MEAN  | 64.0 | 30.4 | 14.1 | 10.6  | 3.43 | 13.2  | 3.48   | .85   | 111    | 40.4 | 152  | 92.2 |
| MAX   | 139  | 182  | 16   | 16    | 5.5  | 27    | 8.2    | 5.4   | 478    | 114  | 842  | 407  |
| MIN   | 33   | 17   | 12   | 5.4   | 1.6  | 2.4   | .00    | .00   | 7.9    | 14   | 18   | 35   |
| AC-FT | 3930 | 1810 | 869  | 649   | 190  | 809   | 207    | 52    | 6600   | 2480 | 9350 | 5490 |

|             |       |          |      |      |     |     |     |     |       |       |
|-------------|-------|----------|------|------|-----|-----|-----|-----|-------|-------|
| CAL YR 1985 | TOTAL | 9882.27  | MEAN | 27.1 | MAX | 286 | MIN | .00 | AC-FT | 19600 |
| WTR YR 1986 | TOTAL | 16357.56 | MEAN | 44.8 | MAX | 842 | MIN | .00 | AC-FT | 32450 |

## SOUTHERN FLORIDA

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## CHARLOTTE HARBOR AND COASTAL AREA

264139082022100 GATOR SLOUGH AT SR 765 NR. FT. MYERS, FL

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1    | 2.74 | 3.08 | 2.63 | 2.59 | 2.58 | 2.56 | 2.60 | 2.54 | 2.58 | 3.02 | 2.76 | 2.98 |
| 2    | 2.84 | 2.73 | 2.63 | 2.59 | 2.58 | 2.56 | 2.60 | 2.54 | 2.66 | 2.99 | 2.77 | 2.95 |
| 3    | 2.99 | 2.71 | 2.63 | 2.59 | 2.58 | 2.56 | 2.60 | 2.54 | 2.64 | 2.95 | 2.78 | 2.93 |
| 4    | 2.95 | 2.71 | 2.63 | 2.59 | 2.57 | 2.55 | 2.60 | 2.54 | 2.63 | 2.96 | 2.76 | 2.90 |
| 5    | 2.88 | 2.71 | 2.63 | 2.59 | 2.56 | 2.54 | 2.59 | 2.55 | 2.63 | 3.08 | 2.77 | 2.89 |
| 6    | 2.94 | 2.70 | 2.62 | 2.60 | 2.56 | 2.54 | 2.59 | 2.57 | 2.63 | 3.05 | 2.90 | 2.89 |
| 7    | 2.94 | 2.69 | 2.61 | 2.60 | 2.56 | 2.54 | 2.59 | 2.59 | 2.63 | 3.00 | 3.04 | 2.90 |
| 8    | 2.90 | 2.69 | 2.61 | 2.60 | 2.56 | 2.54 | 2.58 | 2.57 | 2.63 | 2.94 | 3.13 | 2.90 |
| 9    | 2.85 | 2.68 | 2.61 | 2.60 | 2.56 | 2.55 | 2.58 | 2.55 | 2.66 | 2.90 | 3.10 | 2.94 |
| 10   | 2.83 | 2.68 | 2.61 | 2.61 | 2.56 | 2.60 | 2.58 | 2.55 | 2.70 | 2.87 | 3.11 | 3.62 |
| 11   | 2.80 | 2.67 | 2.61 | 2.61 | 2.56 | 2.65 | 2.58 | 2.53 | 2.71 | 2.87 | 2.95 | 3.72 |
| 12   | 2.78 | 2.67 | 2.60 | 2.61 | 2.56 | 2.63 | 2.58 | 2.53 | 2.71 | 2.85 | 2.95 | 3.50 |
| 13   | 2.76 | 2.67 | 2.60 | 2.60 | 2.56 | 2.62 | 2.59 | 2.53 | 2.73 | 2.82 | 2.97 | 3.29 |
| 14   | 2.76 | 2.67 | 2.62 | 2.58 | 2.56 | 2.66 | 2.58 | 2.53 | 2.77 | 2.82 | 2.98 | 3.13 |
| 15   | 2.76 | 2.66 | 2.61 | 2.58 | 2.55 | 2.68 | 2.57 | 2.53 | 2.80 | 2.81 | 2.94 | 3.05 |
| 16   | 2.75 | 2.66 | 2.61 | 2.58 | 2.56 | 2.68 | 2.57 | 2.54 | 3.07 | 2.80 | 2.90 | 2.98 |
| 17   | 2.72 | 2.66 | 2.61 | 2.58 | 2.55 | 2.67 | 2.56 | 2.54 | 3.09 | 2.79 | 2.88 | 2.88 |
| 18   | 2.72 | 2.64 | 2.61 | 2.58 | 2.56 | 2.67 | 2.55 | 2.54 | 3.49 | 2.79 | 2.88 | 2.80 |
| 19   | 2.72 | 2.64 | 2.61 | 2.58 | 2.57 | 2.66 | 2.55 | 2.54 | 3.75 | 2.77 | 2.89 | 2.84 |
| 20   | 2.71 | 2.69 | 2.61 | 2.58 | 2.57 | 2.65 | 2.55 | 2.58 | 3.49 | 2.77 | 3.40 | 2.80 |
| 21   | 2.71 | 2.67 | 2.61 | 2.58 | 2.57 | 2.64 | 2.55 | 2.58 | 3.29 | 2.77 | 4.42 | 2.78 |
| 22   | 2.71 | 2.67 | 2.61 | 2.58 | 2.57 | 2.62 | 2.55 | 2.57 | 3.22 | 2.76 | 4.11 | 2.75 |
| 23   | 2.70 | 2.67 | 2.61 | 2.58 | 2.56 | 2.62 | 2.55 | 2.56 | 3.22 | 2.76 | 3.85 | 2.74 |
| 24   | 2.69 | 2.67 | 2.61 | 2.58 | 2.56 | 2.62 | 2.54 | 2.54 | 3.17 | 2.75 | 3.54 | 2.75 |
| 25   | 2.69 | 2.67 | 2.60 | 2.58 | 2.54 | 2.63 | 2.54 | 2.54 | 3.22 | 2.74 | 3.37 | 2.76 |
| 26   | 2.69 | 2.67 | 2.59 | 2.58 | 2.54 | 2.63 | 2.54 | 2.54 | 3.13 | 2.74 | 3.22 | 2.77 |
| 27   | 2.68 | 2.65 | 2.59 | 2.57 | 2.54 | 2.63 | 2.54 | 2.55 | 3.04 | 2.74 | 3.17 | 2.75 |
| 28   | 2.68 | 2.64 | 2.59 | 2.58 | 2.54 | 2.63 | 2.54 | 2.55 | 3.05 | 2.76 | 3.15 | 2.73 |
| 29   | 2.68 | 2.64 | 2.59 | 2.58 | ---  | 2.62 | 2.54 | 2.55 | 3.09 | 2.76 | 3.10 | 2.72 |
| 30   | 2.67 | 2.64 | 2.59 | 2.58 | ---  | 2.61 | 2.54 | 2.55 | 3.08 | 2.76 | 3.04 | 2.71 |
| 31   | 2.86 | ---  | 2.59 | 2.58 | ---  | 2.60 | ---  | 2.54 | ---  | 2.76 | 3.00 | ---  |
| MEAN | 2.78 | 2.69 | 2.61 | 2.59 | 2.56 | 2.61 | 2.57 | 2.55 | 2.95 | 2.84 | 3.12 | 2.95 |
| MAX  | 2.99 | 3.08 | 2.63 | 2.61 | 2.58 | 2.68 | 2.60 | 2.59 | 3.75 | 3.08 | 4.42 | 3.72 |
| MIN  | 2.67 | 2.64 | 2.59 | 2.57 | 2.54 | 2.54 | 2.54 | 2.53 | 2.58 | 2.74 | 2.76 | 2.71 |

CAL YR 1985 MEAN 2.63 MAX 3.33 MIN 2.43  
WTR YR 1986 MEAN 2.74 MAX 4.42 MIN 2.53



## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging station. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or flood-flow analysis, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at crest-stage partial-record stations are presented in a table of annual maximum stage and discharge. Discharge measurements made at miscellaneous sites for both low flows and high flows are given in a second table.

## Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The data of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given in the period of record represent water year for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record station during the water year 1986

| Station number       | Station name                                    | Location                                                                                                                                                                                                                                                                                                | Drainage area (sq mi) | Period of record | Annual Maximum                    |                    |                  |
|----------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------|-----------------------------------|--------------------|------------------|
|                      |                                                 |                                                                                                                                                                                                                                                                                                         |                       |                  | Date                              | Gage height (feet) | Dis-charge (cfs) |
| 02269720             | Morgan Hole Creek                               | Lat 27°37'52", long 81°17'47", in NW¼ sec.11, T.33 S., R.30 E., Highlands County, Hydrologic Unit 03090101, at bridge on perimeter road on Avon Park bombing range, 5.4 mi upstream from mouth and 12.5 mi east of Avon Park. Datum of gage is 53.15 ft above Natioanl Geodetic Vertical Datum of 1929. | 13.9                  | 1971-86          | 09-06-85 <sup>a</sup><br>06-27-86 | 5.84<br>6.82       | 541<br>924       |
| Caloosahatchee River |                                                 |                                                                                                                                                                                                                                                                                                         |                       |                  |                                   |                    |                  |
| 02292730             | Jacks Branch near La Belle, FL                  | Lat 26°49'40", long 81°33'03", in NE¼ sec.18, T.42 S., R.28 E., Glades County, Hydrologic Unit 03090205, at bridge on State Highway 720, 11.8 mi northwest of La Belle. Datum of gage is National Geodetic Vertical Datum of 1929.                                                                      |                       | 1983-86          | 03-18-86                          | 35.58              | 380              |
| 02293050             | Orange River at Buckingham, near Fort Myers, FL | Lat 26°40'12", long 81°43'56", in NE¼, sec.8, T.44 S., R.26 E., Lee County, Hydrologic Unit 03090205, at bridge on Bucking-ham, 2.5 mi upstream from mouth, and 9 mi east of Fort Myers. Datum of gage is National Geo-detic Vertical Datum of 1929. Prior to Oct. 1978 at datum 2.61 ft higher.        |                       | 1960-86          | 11-20-85                          | 4.67               | 760              |

<sup>a</sup>Not previously published

The following table contains the annual maximum stream elevation at selected gaging stations in several river basins during the water year 1986.

These stations are equipped with a crest-stage which records the peak stage occurring between inspections of the gage.

## Annual maximum flood-profile data during the water year 1986

| Station number                                  | Station name                                               | Location                                                                                                                                                                                                                                                                                                                              | Miles above mouth | Drainage area (sq mi) | Period of record (water years) | Annual Maximum Date | Elevation (feet) |
|-------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------|--------------------------------|---------------------|------------------|
| Big Cypress Swamp and Southwestern coastal area |                                                            |                                                                                                                                                                                                                                                                                                                                       |                   |                       |                                |                     |                  |
| 261952<br>081454700                             | Oak Creek<br>at Bonita<br>Springs, FL                      | Lat 26°19'52", long 81°45'47",<br>in NW¼ sec.1, T.48 S., R.25<br>E., Lee County, Hydrologic<br>Unit 03090204, at bridge on<br>Imperial Street, 1.2 mi south-<br>east of Bonita Springs, and<br>2.5 mi upstream from mouth.<br>Datum of gage is National<br>Geodetic Vertical Datum of<br>1929.                                        |                   |                       | 1973-86                        | 07-11-86            | 7.33             |
| 262032<br>081464500                             | Imperial River<br>at Bonita<br>Springs, FL                 | Lat 26°20'32", long 81°46'45",<br>in NE¼ sec.35, T.47 S., R.25<br>E., Lee County, Hydrologic<br>Unit 03090204, at bridge on<br>U.S. Highway 41 at Bonita<br>Springs, 5.20 mi upstream<br>from mouth. Datum of gage<br>is National Geodetic Verti-<br>cal Datum of 1929.                                                               |                   |                       | 1972-86                        | 11-20-85            | 3.62             |
| 262604<br>81481900                              | Estero River<br>near Estero,<br>FL                         | Lat 26°26'04", long 81°48'19",<br>in NE¼ sec.33, T.46 S., R.25<br>E., Lee County, Hydrologic<br>Unit 03090204, at bridge on<br>Sandy Lane, 1/2 mi north of<br>Corkscrew Road, 1 mi southeast<br>of Estero, and 4.3 mi from mouth.<br>Datum of gage is National Geo-<br>detic Vertical Datum of 1929.                                  |                   |                       | 1973-86                        | 11-20-85            | 3.80             |
| 262957<br>081511400                             | Tenmile Canal<br>near Estero,<br>FL                        | Lat 26°29'57", long 81°51'14", in<br>SW¼ sec.6, T.46 S., R.25 E.,<br>Lee County, Hydrologic Unit<br>03090204, at bridge on U.S.<br>Highway 41, 1.90 mi upstream<br>from mouth, and 5.4 mi north<br>of Estero. Datum of gage is<br>National Geodetic Vertical<br>Datum of 1929.                                                        |                   |                       | 1973-86                        | 11-20-85            | 5.16             |
| 263113<br>081525900                             | Hendry Creek<br>at St. Hwy<br>865 near<br>Ft. Myers,<br>FL | Lat 26°31'13", long 81°52'59",<br>in NW¼ sec.35, T.45 S., R.24<br>E., Lee County, Hydrologic<br>Unit 03090204, at bridge on<br>Gladiolus Drive, 5.19 mi up-<br>stream from mouth, and 8.8 mi<br>south of Ft. Myers. Datum of<br>gage is National Geodetic<br>Vertical Datum of 1929.                                                  |                   |                       | 1972-86                        | 09-16-86            | 2.64             |
| 263247<br>081500400                             | Sixmile<br>Cypress Creek<br>near Ft. Myers<br>Villas, FL   | Lat 26°32'47", long 81°50'04",<br>in SW¼ sec.20, T.45 S., R.24<br>E., Lee County, Hydrologic<br>Unit 03090204, at bridge on<br>Daniels Road, 1.2 mi west of<br>Ft. Myers Villas, above con-<br>fluence with Ten mile canal,<br>and 6.5 mi southeast of Ft.<br>Myers. Datum of gage is<br>National Geodetic Vertical<br>Datum of 1929. |                   |                       | 1973-86                        | 03-18-86            | 16.53            |

Annual maximum flood-profile data during the water year 1986

| Station number                                  | Station name                             | Location                                                                                                                                                                                                                                                            | Miles above mouth | Drainage area (sq mi) | Period of record (water years) | Annual Maximum Date | Maximum Elevation (feet) |
|-------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------|--------------------------------|---------------------|--------------------------|
| Big Cypress Swamp and Southwestern coastal area |                                          |                                                                                                                                                                                                                                                                     |                   |                       |                                |                     |                          |
| 263247<br>081512000                             | Tenmile Canal near Ft. Myers Villas, FL  | Lat 26°32'47", long 81°51'20", in NW¼ sec. 19, T.45 S., R.25 E., Lee County, Hydrologic Unit 03090204, at bridge on Daniels Road, 1.3 mi southwest of Ft. Myers Villas, and 5.20 mi upstream from mouth. Datum of gage is National Geodetic Vertical Datum of 1929. |                   |                       | 1973-86                        | 09-20-86            | 14.75                    |
| 263719<br>081512200                             | Tenmile Canal near Ft. Myers, FL         | Lat 26°37'19", long 81°51'20", in NE¼ sec.25, T.44 S., R.24 E., Lee County, Hydrologic Unit 03090204, at railroad bridge, 100 ft south of Ranson Street in Ft. Myers, and 10.4 mi upstream from mouth. Datum of gage is National Geodetic Vertical Datum of 1929.   |                   |                       | 1973-86                        | 1986                | <12.82                   |
| 263736<br>081464301                             | Sixmile Cypress Creek near Ft. Myers, FL | Lat 26°37'36", long 81°46'43", in NE¼ sec.26, T.44 S., R.25 E., Lee County, Hydrologic Unit 03090204, at bridge on State Highway 82, 5.6 mi east of Ft. Myers, and 10 mi upstream from mouth. Datum of gage is National Geodetic Vertical Datum of 1929.            |                   |                       | 1973-86                        | 03-18-86            | 20.63                    |
| Caloosahatchee River                            |                                          |                                                                                                                                                                                                                                                                     |                   |                       |                                |                     |                          |
| 263239<br>081534500                             | Wyonia Creek near Ft. Myers, FL          | Lat 26°32'39", long 81°53'45", in SW¼ sec.22, T.45 S., R.24 E., Lee County, Hydrologic Unit 03080101, at bridge on Cypress Lake Drive, 2.62 mi upstream from mouth, and 7.0 mi south of Ft. Myers. Datum of gage is National Geodetic Vertical Datum of 1929.       |                   |                       | 1973-86                        | 09-16-86            | 5.18                     |
| 263428<br>081533400                             | Whiskey Creek near Ft. Myers, FL         | Lat 26°34'28", long 81°53'34", in SW¼ sec.10, T.45 S., R.24 E., Lee County, Hydrologic Unit 03090205, at bridge on Whiskey Creek Drive, 0.29 mi upstream from mouth, and 5.1 mi south of Ft. Myers. Datum of gage is National Geodetic Vertical Datum of 1929.      |                   |                       | 1973-86                        | 03-18-86            | 3.73                     |
| 263543<br>081522500                             | Whiskey Creek at Ft. Myers, FL           | Lat 26°35'43", long 81°52'25", in NE¼ sec.2, T.45 S., R.24 E., Lee County, Hydrologic Unit 03090205, at bridge on Colonial Blvd., 2.93 mi upstream from mouth, and 3.6 mi south of Ft. Myers. Datum of gage is National Geodetic Vertical Datum of 1929.            |                   |                       | 1973-86                        | 07-11-86            | 10.45                    |
| 263904<br>081512500                             | Billy Creek at Ft. Myers, FL             | Lat 26°35'04", long 81°51'25", in NE¼, sec.13, T.44 S., R.24 E., Lee County, Hydrologic Unit 03090205, at bridge on State Highway 80, 0.09 mi upstream from mouth, and 1 mi east of Ft. Myers. Datum of gage is National Geodetic Vertical Datum of 1929.           |                   |                       | 1973-86                        | 11-20-85            | 4.18                     |

## ANNUAL MAXIMUM FLOOD-PROFILE DATA

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Annual maximum flood-profile data during the water year 1986

| Station number                  | Station name                              | Location                                                                                                                                                                                                                                                                                          | Miles above mouth | Drainage area (sq mi) | Period of record (water years) | Annual Maximum Date | Elevation (feet) |
|---------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------|--------------------------------|---------------------|------------------|
| Caloosahatchee River--Continued |                                           |                                                                                                                                                                                                                                                                                                   |                   |                       |                                |                     |                  |
| 263953<br>081484600             | Billy Creek at Tice, FL                   | Lat 26°39'53", long 81°48'46" in SE¼ sec.9, T.44 S., R.25 E., Lee County, Hydrologic Unit 03090205, at culvert on Ortiz Avenue, 3.45 mi upstream from mouth in Tice, FL. Datum of gage is National Geodetic Vertical Datum of 1929.                                                               |                   |                       | 1973-86                        | 07-11-86            | 9.33             |
| 264054<br>081524000             | Powell Creek at North Ft. Myers, FL       | Lat 26°40'54", long 81°52'40", in SE¼ sec.35, T.43 S., R.24 E., Lee County, Hydrologic Unit 03090205, at bridge on State Highway 78, 1.53 mi upstream from mouth, and 3.0 mi north of Ft. Myers. Datum of gage is National Geodetic Vertical Datum of 1929.                                       |                   |                       | 1974-86                        | 09-15-86            | 5.23             |
| 264054<br>081544000             | Yellow Fever Creek at North Ft. Myers, FL | Lat 26°40'54", long 81°54'40", in NE¼ sec.4, T.44 S., R.24 E., Lee County, Hydrologic Unit 03090205, at bridge on State Highway 78, 0.71 mi west of North Ft. Myers, 3.13 mi upstream from mouth, and 4.0 mi northwest of Ft. Myers. Datum of gage is National Geodetic Vertical Datum of 1929.   |                   |                       | 1972-86                        | 09-15-86            | 3.56             |
| 264115<br>081473200             | Orange River near Tice, FL                | Lat 26°41'15", long 81°47'32", in SW¼ sec.35, T.43 S., R.25 E., Lee County, Hydrologic Unit 03090205, at bridge on State Highway 80 at Tice, 0.85 mi upstream from mouth, and 5.6 mi east of Fort Myers. Datum of gage is National Geodetic Vertical Datum of 1929.                               |                   |                       | 1973-86                        | 11-20-85            | 4.34             |
| 264147<br>081551200             | Yellow Fever near North Ft. Myers, FL     | Lat 26°41'47", long 81°55'12", in NW¼ sec.33, T.43 S., R.24 E., Lee County, Hydrologic Unit 03090205, at bridge on Corbett Road, 1.20 mi northwest of North Ft. Myers, 4.45 mi upstream from mouth, and 5.5 mi northwest of Ft. Myers. Datum of gage is National Geodetic Vertical Datum of 1929. |                   |                       | 1973-86                        | 09-15-86            | 9.40             |
| 264214<br>081504201             | Daughtrey Creek at Ft. Myers, FL          | Lat 26°42'14", long 81°50'42", in SE¼ sec.30, T.43 S., R.25 E., Lee County, Hydrologic Unit 03090205, at bridge on State Highway 78, 1.69 mi upstream from mouth, and 4.3 mi north of Ft. Myers. Datum of gage is National Geodetic Vertical Datum of 1929.                                       |                   |                       | 1972-86                        | 09-15-86            | 3.86             |
| 264230<br>081355800             | Bedman Creek at Alva, FL                  | Lat 26°42'30", long 81°35'58", in SW¼ sec.25, T.43 S., R.26 E., Lee County, Hydrologic Unit 03090205, at bridge on State Highway 80 at Alva, and 0.44 mi upstream from mouth. Datum of gage is National Geodetic Vertical Datum of 1929.                                                          |                   |                       | 1972-86                        | 09-15-86            | 4.59             |

Annual maximum flood-profile data during the water year 1986

| Station number                  | Station name                                     | Location                                                                                                                                                                                                                                                                                                      | Miles above mouth | Drainage area (sq mi) | Period of record (water years) | Annual Maximum |                  |
|---------------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------|--------------------------------|----------------|------------------|
|                                 |                                                  |                                                                                                                                                                                                                                                                                                               |                   |                       |                                | Date           | Elevation (feet) |
| Caloosahatchee River--Continued |                                                  |                                                                                                                                                                                                                                                                                                               |                   |                       |                                |                |                  |
| 264253<br>081402200             | Hickey Creek near Olga, FL                       | Lat 26°42'53", long 81°40'22", in NW¼ sec.25, T.43S., R.27 E., Lee County, Hydrologic Unit 03090205, at bridge on State Highway 80, 0.31 mi upstream from mouth, and 2.5 mi east of Olga. Datum of gage is National Geodetic Vertical Datum of 1929.                                                          |                   |                       | 1973-86                        | 03-17-86       | 3.40             |
| 264253<br>081483200             | Popash Creek at Bayshore, FL                     | Lat 26°42'53", long 81°40'32", in SW¼ sec.22, T.43 S., R.25 E., Lee County, Hydrologic Unit 03090205, at bridge on State Highway 78, 0.9 mi east of Bayshore, 1.4 mi upstream from mouth, and 6.1 mi northeast of Ft. Myers. Datum of gage is National Geodetic Vertical Datum of 1929.                       |                   |                       | 1972-86                        | 09-15-86       | 3.88             |
| 264349<br>081420600             | Telegraph Creek near Olga, FL                    | Lat 26°43'49", long 81°42'06", in SE¼ sec.15, T.43 S., R.26 E., Lee County, Hydrologic Unit 03090205, at bridge on State Highway 78, 0.60 mi upstream from mouth, and 1.1 mi north-east of Olga. Datum of gage is National Geodetic Vertical Datum of 1929.                                                   |                   |                       | 1972-86                        | 08-20-86       | 2.81             |
| 264253<br>081494400             | Caloosahatchee River tributary at Bayshore, FL   | Lat 26°42'53", long 81°49'20", in SW¼ sec.21, T.43 S., R.25 E., Lee County, Hydrologic Unit 03090205, at bridge on State Highway 78 at Bayshore, 1.36 mi upstream from mouth, and 5.6 mi north of Ft. Myers. Datum of gage is National Geodetic Vertical Datum of 1929.                                       |                   |                       | 1973-86                        | 07-11-86       | 7.77             |
| 264518<br>081500500             | Caloosahatchee River tributary near Bayshore, FL | Lat 26°45'18", long 81°50'05", in SW¼ sec.5, T.43 S., R.25 E., Lee County, Hydrologic Unit 03090205, at culvert on Nalle Grande Road, 4.5 mi upstream from mouth, and 8.2 mi north-east of Ft. Myers. Datum of gage is National Geodetic Vertical Datum of 1929.                                              |                   |                       | 1973-86                        | 09-15-86       | 23.86            |
| 264518<br>081510500             | Daughtrey Creek near Bayshore Manor, FL          | Lat 26° 45'18", long 81°51'05", in NW¼ sec.6, T.43 S., R.25 E., Lee County, Hydrologic Unit 03090205, at bridge on Nalle Grande Road, 7.55 mi upstream from mouth, and 8.0 mi north-east of Ft. Myers. Datum of gage is National Geodetic Vertical Datum of 1929. Gage discontinued and destroyed July, 1986. |                   |                       | 1972-86                        | 07-11-86       | >21.99           |
| 264519<br>081483400             | Popash Creek near Bayshore, FL                   | Lat 26°45'19", long 81°48'34", in SE¼ sec.3, T.43 S., R.25 E., Lee County, Hydrologic Unit 03090205, at bridge on Nalle Grande Road, 3.6 mi north of Bayshore, 4.71 mi upstream from mouth, and 7.5 mi northeast of North Ft. Myers. Datum of gage is National Geodetic Vertical Datum of 1929.               |                   |                       | 1973-86                        | 07-11-86       | 23.15            |

&lt; Actual value is known to be less than the value shown.

&gt; Actual value is known to be equal to or greater than value shown.



## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Water-quality partial-record stations are particular sites where chemical-quality, biological and/or sediment data are collected systematically over a period of years for use in hydrologic analyses. These data are collected usually less than quarterly.

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

## 02266298 - REEDY CREEK ABOVE HWY-192 NEAR VINELAND, FL

| DATE         | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00605) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | PHOS-<br>PHORUS,<br>ORTHO,<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) |
|--------------|------|--------------------------------------------------------------|-------------------------------------------|-------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------|
| JUN<br>03... | 1230 | 347                                                          | 7.10                                      | 25.5                                            | 4.0                                            | 0.010                                                           | 0.290                                                           | 0.070                                                           | 0.93                                                            | 1.0                                                                           | 0.400                                                  | 0.360                                                            |

## 02266320 - REEDY CREEK AT I-4 NEAR LOUGHMAN, FL

| DATE         | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300) | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630) | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00605) | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P)<br>(00665) | PHOS-<br>PHORUS,<br>ORTHO,<br>TOTAL<br>(MG/L<br>AS P)<br>(70507) |
|--------------|------|--------------------------------------------------------------|-------------------------------------------|-------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------|
| JUN<br>03... | 1420 | 295                                                          | 7.20                                      | 26.0                                            | 4.8                                            | 0.010                                                           | 0.490                                                           | 0.030                                                           | 1.1                                                             | 1.1                                                                           | 0.400                                                  | 0.370                                                            |

## 262038080074600 - E-3 CANAL AT CAMINO REAL AT BOCA RATON FLA

| DATE         | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | TEMPER-<br>ATURE<br>AIR<br>(DEG C)<br>(00020) | BARO-<br>METRIC<br>PRES-<br>SURE<br>(MM<br>OF<br>HG)<br>(00025) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | TUR-<br>BID-<br>ITY<br>(NTU)<br>(00076) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS)<br>(00403) | ALKA-<br>LITY<br>WH WAT<br>TOTAL<br>FIELD<br>MG/L AS<br>CACO3<br>(00410) |
|--------------|------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------------|
| NOV<br>12... | 1230 | 27.5                                            | 31.5                                          | 760                                                             | 1028                                                               | 80010                                                             | 1.5                                     | 45                                                      | 550                                                          | 7.90                                      | 7.50                                             | 226                                                                      |
| JUL<br>16... | 1230 | 30.0                                            | 33.5                                          | 764                                                             | 1028                                                               | 80020                                                             | 0.40                                    | 40                                                      | 610                                                          | 7.40                                      | 7.90                                             | 226                                                                      |

| DATE         | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3)<br>(00900) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT FLD<br>MG/L AS<br>CACO3<br>(00902) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA)<br>(00915) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG)<br>(00925) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO<br>(00931) | PERCENT<br>SODIUM<br>(00932) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F)<br>(00950) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SIO2)<br>(00955) |
|--------------|---------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|
|              |                                                   |                                                                              |                                                         |                                                                 |                                                         |                                                    |                              |                                                                |                                                                |                                                          |                                                               |                                                              |
|              |                                                   |                                                                              |                                                         |                                                                 |                                                         |                                                    |                              |                                                                |                                                                |                                                          |                                                               |                                                              |
|              |                                                   |                                                                              |                                                         |                                                                 |                                                         |                                                    |                              |                                                                |                                                                |                                                          |                                                               |                                                              |
| NOV<br>12... | 250                                               | 29                                                                           | 94                                                      | 4.6                                                             | 26                                                      | 0.7                                                | 18                           | 4.8                                                            | 40                                                             | 34                                                       | 0.20                                                          | 5.1                                                          |
| JUL<br>16... | 260                                               | 33                                                                           | 95                                                      | 4.9                                                             | 25                                                      | 0.7                                                | 17                           | 4.5                                                            | 42                                                             | 38                                                       | 0.30                                                          | 7.5                                                          |

262038080074600 E-3 CANAL AT CAMINO REAL AT BOCA RATON, FLA

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE      | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS)<br>(01002)                                 | BARIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BA)<br>(01007)     | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD)<br>(01027)    | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR)<br>(01034) | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU)<br>(01042)             | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE)<br>(01045)               | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB)<br>(01051)               | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN)<br>(01055)      | SILVER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AG)<br>(01077)                     | STRON-<br>TIUM,<br>TOTAL<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR)<br>(01080)                | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN)<br>(01092)                | SELE-<br>NIUM,<br>TOTAL<br>(UG/L<br>AS SE)<br>(01147) |
|-----------|--------------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------|
| NOV 12... | 1                                                                              | 100                                                                    | 1                                                                     | <10                                                                       | 7                                                                              | 60                                                                             | 3                                                                              | 20                                                                              | <1                                                                                     | 900                                                                                     | 20                                                                              | <1                                                    |
| JUL 16... | <1                                                                             | <100                                                                   | <1                                                                    | <10                                                                       | 33                                                                             | 80                                                                             | 5                                                                              | 40                                                                              | 1                                                                                      | 1000                                                                                    | 40                                                                              | <1                                                    |
| DATE      | 2,4-DP,<br>IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(34609)                         | DI-<br>SYSTON<br>TOTAL<br>(UG/L)<br>(39011)                            | PHORATE<br>TOTAL<br>(UG/L)<br>(39023)                                 | PER-<br>THANE<br>TOTAL<br>(UG/L)<br>(39034)                               | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L)<br>(39250)       | PCN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39251)            | ALDRIN,<br>TOTAL<br>(UG/L)<br>(39330)                                          | ALDRIN,<br>TOTAL<br>(UG/L)<br>(39333)                                           | LINDANE<br>TOTAL<br>(UG/L)<br>(39340)                                                  | LINDANE<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39343)                  | CHLOR-<br>DANE,<br>TOTAL<br>(UG/L)<br>(39350)                                   |                                                       |
| NOV 12... | --                                                                             | --                                                                     | --                                                                    | --                                                                        | --                                                                             | --                                                                             | --                                                                             | --                                                                              | --                                                                                     | --                                                                                      | --                                                                              | --                                                    |
| JUL 16... | <0.1                                                                           | <0.01                                                                  | <0.01                                                                 | <0.1                                                                      | <0.10                                                                          | <1.0                                                                           | <0.010                                                                         | <0.1                                                                            | <0.010                                                                                 | <0.1                                                                                    | <0.1                                                                            |                                                       |
| DATE      | CHLOR-<br>DANE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39351) | DDD,<br>TOTAL<br>DDD,<br>TOTAL<br>(UG/L)<br>(39360)                    | DDD,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39363)   | DDE,<br>TOTAL<br>DDE,<br>TOTAL<br>(UG/L)<br>(39365)                       | DDE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39368)            | DDT,<br>TOTAL<br>DDT,<br>TOTAL<br>(UG/L)<br>(39370)                            | DDT,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39373)            | DI-<br>ELDRIN,<br>TOTAL<br>DI-<br>ELDRIN<br>TOTAL<br>(UG/L)<br>(39380)          | DI-<br>ELDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39383)          | ENDO-<br>SULFAN,<br>TOTAL<br>ENDO-<br>SULFAN,<br>TOTAL<br>(UG/L)<br>(39388)             | ENDO-<br>SULFAN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39389) |                                                       |
| NOV 12... | --                                                                             | --                                                                     | --                                                                    | --                                                                        | --                                                                             | --                                                                             | --                                                                             | --                                                                              | --                                                                                     | --                                                                                      | --                                                                              | --                                                    |
| JUL 16... | 25                                                                             | <0.010                                                                 | 2.6                                                                   | <0.010                                                                    | 8.4                                                                            | <0.010                                                                         | <0.1                                                                           | <0.010                                                                          | 0.3                                                                                    | <0.010                                                                                  | <0.1                                                                            |                                                       |
| DATE      | ENDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39390)          | ENDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39393) | ETHION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39398) | ETHION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39399)    | TOX-<br>APHENE,<br>TOTAL<br>(UG/L)<br>(39400)                                  | TOXA-<br>PHENE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39403) | HEPTA-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39410) | HEPTA-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39413) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOT. IN<br>BOTTOM<br>MATL.<br>TOTAL<br>(UG/L)<br>(39420) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOT. IN<br>BOTTOM<br>MATL.<br>TOTAL<br>(UG/KG)<br>(39423) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L)<br>(39480)                           |                                                       |
| NOV 12... | --                                                                             | --                                                                     | --                                                                    | --                                                                        | --                                                                             | --                                                                             | --                                                                             | --                                                                              | --                                                                                     | --                                                                                      | --                                                                              | --                                                    |
| JUL 16... | <0.010                                                                         | <0.1                                                                   | <0.01                                                                 | 0.2                                                                       | <1                                                                             | <10                                                                            | <0.010                                                                         | <0.1                                                                            | <0.010                                                                                 | <0.1                                                                                    | <0.01                                                                           |                                                       |
| DATE      | METH-<br>OXY-<br>CHLOR,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39481)    | PCB,<br>TOTAL<br>PCB,<br>TOTAL<br>(UG/L)<br>(39516)                    | PCB,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39519)   | MALA-<br>THION,<br>TOTAL<br>MALA-<br>THION,<br>TOTAL<br>(UG/L)<br>(39530) | MALA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39531) | PARA-<br>THION,<br>TOTAL<br>PARA-<br>THION,<br>TOTAL<br>(UG/L)<br>(39540)      | PARA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39541) | DI-<br>AZINON,<br>TOTAL<br>DI-<br>AZINON,<br>TOTAL<br>(UG/L)<br>(39570)         | DI-<br>AZINON,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39571)          | GUTHION<br>TOTAL<br>(UG/L)<br>(39580)                                                   | METHYL<br>PARA-<br>THION,<br>TOTAL<br>(UG/L)<br>(39600)                         |                                                       |
| NOV 12... | --                                                                             | --                                                                     | --                                                                    | --                                                                        | --                                                                             | --                                                                             | --                                                                             | --                                                                              | --                                                                                     | --                                                                                      | --                                                                              | --                                                    |
| JUL 16... | <0.1                                                                           | <0.1                                                                   | 12                                                                    | <0.01                                                                     | <0.1                                                                           | <0.01                                                                          | <0.1                                                                           | 0.01                                                                            | <0.1                                                                                   | <0.10                                                                                   | <0.01                                                                           |                                                       |

## 262038080074600 - E-3 CANAL AT CAMINO REAL AT BOCA RATON FLA

## WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | METHYL<br>PARA-<br>THION,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39601) | 2,4-D,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39731) | 2,4,5-T<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39740) | 2,4,5-T<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39741) | MIREX,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39755) | MIREX,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39758) | SILVEX,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39760) | SILVEX,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39761) | TOTAL<br>TRI-<br>THION<br>(UG/L)<br>(39786) | TRI-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39787) |
|--------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------|
| NOV<br>12... | --                                                                            | --                                                                    | --                                                                     | --                                                                     | --                                                                   | --                                                                    | --                                                                    | --                                                                     | --                                          | --                                                                            |
| JUL<br>16... | <0.1                                                                          | 0.10                                                                  | <0.1                                                                   | <0.01                                                                  | <0.1                                                                 | <0.01                                                                 | <0.1                                                                  | <0.01                                                                  | <0.1                                        | <0.1                                                                          |

| DATE         | METHYL<br>TRI-<br>THION,<br>TOTAL<br>(UG/L)<br>(39790) | METHYL<br>THION,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39791) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L)<br>(70301) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG)<br>(71900) | PER-<br>THANE<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(81886) | 2, 4-DP<br>TOTAL<br>(UG/L)<br>(82183) | SAM-<br>PLING<br>METHOD,<br>CODES<br>(82398) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(90095) | ALKA-<br>LITY<br>LAB<br>(MG/L<br>AS<br>CACO3)<br>(90410) | HARD-<br>NESS<br>NONCAR-<br>BONATE<br>(MG/L<br>AS<br>CACO3)<br>(95902) |
|--------------|--------------------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------|----------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------|
| NOV<br>12... | --                                                     | --                                                                   | 371                                                                           | 350                                                                            | 0.10                                                               | --                                                                  | --                                    | 60.0                                         | 577                                                          | 209                                                      | 29                                                                     |
| JUL<br>16... | <0.01                                                  | <0.1                                                                 | 386                                                                           | 350                                                                            | --                                                                 | <1.00                                                               | <0.01                                 | 40.0                                         | 614                                                          | 226                                                      | 33                                                                     |

## 262205080074700 - E-3 CA AT GLADES RD IN BOCA RATON FLA

| DATE         | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | TEMPER-<br>ATURE<br>AIR<br>(DEG C)<br>(00020) | BARO-<br>METRIC<br>PRES-<br>SURE<br>(MM<br>OF<br>HG)<br>(00025) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | TUR-<br>BID-<br>ITY<br>(NTU)<br>(00076) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS)<br>(00403) | ALKA-<br>LITY<br>WH WAT<br>TOTAL<br>FIELD<br>MG/L AS<br>CACO3<br>(00410) |
|--------------|------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------------|
| NOV<br>12... | 1400 | 26.5                                            | 31.0                                          | 760                                                             | 1028                                                               | 80010                                                             | 1.0                                     | 75                                                      | 383                                                          | 7.60                                      | 7.50                                             | 139                                                                      |
| JUL<br>16... | 1100 | 29.5                                            | 32.5                                          | 764                                                             | 1028                                                               | 80020                                                             | 0.40                                    | 50                                                      | 493                                                          | 7.12                                      | 7.40                                             | 165                                                                      |

| DATE         | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3)<br>(00900) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT FLD<br>MG/L AS<br>CACO3<br>(00902) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA)<br>(00915) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG)<br>(00925) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO<br>(00931) | PERCENT<br>SODIUM<br>(00932) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F)<br>(00950) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SIO2)<br>(00955) |
|--------------|---------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|
| NOV<br>12... | 150                                               | 16                                                                           | 54                                                      | 4.7                                                             | 22                                                      | 0.8                                                | 23                           | 6.1                                                            | 34                                                             | 23                                                       | 0.10                                                          | 3.5                                                          |
| JUL<br>16... | 190                                               | 28                                                                           | 69                                                      | 4.7                                                             | 24                                                      | 0.8                                                | 21                           | 5.2                                                            | 40                                                             | 29                                                       | 0.30                                                          | 4.7                                                          |

| DATE         | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS)<br>(01002) | BARIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BA)<br>(01007) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD)<br>(01027) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR)<br>(01034) | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU)<br>(01042) | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE)<br>(01045) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB)<br>(01051) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN)<br>(01055) | SILVER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AG)<br>(01077) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR)<br>(01080) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN)<br>(01092) | SELE-<br>NIUM,<br>TOTAL<br>(UG/L<br>AS SE)<br>(01147) |
|--------------|------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------|
| NOV<br>12... | 3                                              | 100                                                                | 1                                                                  | <10                                                                       | 5                                                                  | 50                                                               | 4                                                                | 10                                                                         | <1                                                                 | 470                                                             | 10                                                               | <1                                                    |
| JUL<br>16... | 3                                              | <100                                                               | 1                                                                  | <10                                                                       | 26                                                                 | 130                                                              | --                                                               | 40                                                                         | 2                                                                  | 790                                                             | 60                                                               | <1                                                    |

262205080074700 - E-3 CA AT GLADES RD IN BOCA RATON FLA

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | 2,4-DP,<br>IN<br>BOTTOM<br>MAT.<br>(UG/KG)<br>(34609)                          | DI-<br>SYSTON<br>TOTAL<br>(UG/L)<br>(39011)                            | PHORATE<br>OTAL<br>(UG/L)<br>(39023)                                  | PER-<br>THANE<br>TOTAL<br>(UG/L)<br>(39034)                            | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L)<br>(39250)       | PCN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39251)            | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39330)          | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39333)          | LINDANE<br>TOTAL<br>(UG/L)<br>(39340)                                         | LINDANE<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39343)         | CHLOR-<br>DANE,<br>TOTAL<br>(UG/L)<br>(39350)                                   |
|--------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| NOV<br>12... | --                                                                             | --                                                                     | --                                                                    | --                                                                     | --                                                                             | --                                                                             | --                                                                             | --                                                                              | --                                                                            | --                                                                             | --                                                                              |
| JUL<br>16... | <0.1                                                                           | <0.01                                                                  | <0.01                                                                 | <0.1                                                                   | <0.10                                                                          | <1.0                                                                           | <0.010                                                                         | <0.1                                                                            | <0.010                                                                        | <0.1                                                                           | <0.1                                                                            |
| DATE         | CHLOR-<br>DANE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39351) | DDD,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39360)     | DDD,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39363)   | DDE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39365)     | DDE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39368)            | DDT,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39370)             | DDT,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39373)            | DI-<br>ELDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39380)    | DI-<br>ELDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39383) | ENDO-<br>SULFAN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39388) | ENDO-<br>SULFAN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39389) |
| NOV<br>12... | --                                                                             | --                                                                     | --                                                                    | --                                                                     | --                                                                             | --                                                                             | --                                                                             | --                                                                              | --                                                                            | --                                                                             | --                                                                              |
| JUL<br>16... | 56                                                                             | <0.010                                                                 | 5.3                                                                   | <0.010                                                                 | 9.2                                                                            | <0.010                                                                         | <0.1                                                                           | <0.010                                                                          | 0.3                                                                           | <0.010                                                                         | <0.1                                                                            |
| DATE         | ENDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39390)          | ENDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39393) | ETHION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39398) | ETHION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39399) | TOX-<br>APHENE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39400)  | TOXA-<br>PHENE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39403) | HEPTA-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39410) | HEPTA-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39413) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/L)<br>(39420) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39423) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L)<br>(39480)                           |
| NOV<br>12... | --                                                                             | --                                                                     | --                                                                    | --                                                                     | --                                                                             | --                                                                             | --                                                                             | --                                                                              | --                                                                            | --                                                                             | --                                                                              |
| JUL<br>16... | <0.010                                                                         | <0.1                                                                   | <0.01                                                                 | <0.1                                                                   | <1                                                                             | <10                                                                            | <0.010                                                                         | <0.1                                                                            | <0.010                                                                        | <0.1                                                                           | <0.01                                                                           |
| DATE         | METH-<br>OXY-<br>CHLOR,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39481)    | PCB,<br>TOTAL<br>(UG/L)<br>(39516)                                     | PCB,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39519)   | MALA-<br>THION,<br>TOTAL<br>(UG/L)<br>(39530)                          | MALA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39531) | PARA-<br>THION,<br>TOTAL<br>(UG/L)<br>(39540)                                  | PARA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39541) | DI-<br>AZINON,<br>TOTAL<br>(UG/L)<br>(39570)                                    | DI-<br>AZINON,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39571) | GUTHION<br>TOTAL<br>(UG/L)<br>(39580)                                          | METHYL<br>PARA-<br>THION,<br>TOTAL<br>(UG/L)<br>(39600)                         |
| NOV<br>12... | --                                                                             | --                                                                     | --                                                                    | --                                                                     | --                                                                             | --                                                                             | --                                                                             | --                                                                              | --                                                                            | --                                                                             | --                                                                              |
| JUL<br>16... | <0.1                                                                           | <0.1                                                                   | 20                                                                    | <0.01                                                                  | <0.1                                                                           | <0.01                                                                          | <0.1                                                                           | 0.01                                                                            | 1.0                                                                           | <0.10                                                                          | <0.01                                                                           |
| DATE         | METHYL<br>PARA-<br>THION,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39601)  | 2,4-D,<br>TOTAL<br>(UG/L)<br>(39730)                                   | 2,4-D,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39731) | 2,4,5-T<br>TOTAL<br>(UG/L)<br>(39740)                                  | 2,4,5-T<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39741)         | MIREX,<br>TOTAL<br>(UG/L)<br>(39755)                                           | MIREX,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39758)          | SILVEX,<br>TOTAL<br>(UG/L)<br>(39760)                                           | SILVEX,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39761)        | TRI-<br>THION,<br>TOTAL<br>(UG/L)<br>(39786)                                   | TRI-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39787)   |
| NOV<br>12... | --                                                                             | --                                                                     | --                                                                    | --                                                                     | --                                                                             | --                                                                             | --                                                                             | --                                                                              | --                                                                            | --                                                                             | --                                                                              |
| JUL<br>16... | <0.1                                                                           | 0.04                                                                   | <0.1                                                                  | <0.01                                                                  | <0.1                                                                           | <0.01                                                                          | <0.1                                                                           | <0.01                                                                           | <0.1                                                                          | <0.01                                                                          | <0.1                                                                            |

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

253

262205080074700 - E-3 CA AT GLADES RD IN BOCA RATON FLA

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | METHYL<br>TRITHION,<br>TOTAL<br>(UG/L)<br>(39790) | METHYL<br>TRITHION,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39791) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L)<br>(70301) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG)<br>(71900) | PER-<br>THANE<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(81886) | 2, 4-DP<br>TOTAL<br>(UG/L)<br>(82183) | SAM-<br>PLING<br>METHOD,<br>CODES<br>(82398) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM)<br>(90095) | ALKA-<br>LITY<br>LAB<br>(MG/L<br>AS<br>CACO3)<br>(90410) | HARD-<br>NESS<br>NONCAR-<br>BONATE<br>(MG/L<br>AS<br>CACO3)<br>(95902) |
|--------------|---------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------|----------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------|
| NOV<br>12... | --                                                | --                                                                      | 262                                                                           | 230                                                                            | <0.10                                                              | --                                                                  | --                                    | 60.0                                         | 397                                                                 | 124                                                      | 16                                                                     |
| JUL<br>16... | <0.01                                             | <0.1                                                                    | 319                                                                           | 280                                                                            | --                                                                 | <1.00                                                               | <0.01                                 | 40.0                                         | 492                                                                 | 164                                                      | 28                                                                     |

262313080084800 - LATERAL CANAL AT POWERLINE RD IN BOCA RATON FLA

WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | TEMPER-<br>ATURE<br>AIR<br>(DEG C)<br>(00020) | BARO-<br>METRIC<br>PRES-<br>SURE<br>(MM<br>OF<br>HG)<br>(00025) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | TUR-<br>BID-<br>ITY<br>(NTU)<br>(00076) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS)<br>(00403) | ALKA-<br>LITY<br>WH WAT<br>TOTAL<br>FIELD<br>MG/L AS<br>CACO3<br>(00410) |
|--------------|------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------------|
| NOV<br>12... | 1430 | 26.5                                            | 29.5                                          | 760                                                             | 1028                                                               | 80010                                                             | 1.5                                     | 50                                                      | 250                                                          | 6.20                                      | 6.30                                             | 69                                                                       |
| JUL<br>16... | 1400 | 31.5                                            | 33.5                                          | 764                                                             | --                                                                 | 80020                                                             | 0.50                                    | 50                                                      | 203                                                          | 6.60                                      | 6.60                                             | 42                                                                       |

| DATE         | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3)<br>(00900) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT FLD<br>MG/L AS<br>CACO3<br>(00902) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA)<br>(00915) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG)<br>(00925) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO<br>(00931) | PERCENT<br>SODIUM<br>(00932) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F)<br>(00950) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SIO2)<br>(00955) |
|--------------|---------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|
| NOV<br>12... | 89                                                | 20                                                                           | 30                                                      | 3.4                                                             | 15                                                      | 0.7                                                | 26                           | 4.0                                                            | 27                                                             | 21                                                       | <0.10                                                         | 5.6                                                          |
| JUL<br>16... | 65                                                | 23                                                                           | 21                                                      | 2.9                                                             | 13                                                      | 0.7                                                | 30                           | 2.5                                                            | 24                                                             | 16                                                       | 0.10                                                          | 2.4                                                          |

| DATE         | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS)<br>(01002) | BARIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BA)<br>(01007) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD)<br>(01027) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR)<br>(01034) | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU)<br>(01042) | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE)<br>(01045) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB)<br>(01051) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN)<br>(01055) | SILVER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AG)<br>(01077) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR)<br>(01080) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN)<br>(01092) | SELE-<br>NIUM,<br>TOTAL<br>(UG/L<br>AS SE)<br>(01147) |
|--------------|------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------|
| NOV<br>12... | 2                                              | <100                                                               | 1                                                                  | <10                                                                       | 16                                                                 | 610                                                              | 2                                                                | 20                                                                         | <1                                                                 | 260                                                             | 10                                                               | <1                                                    |
| JUL<br>16... | <1                                             | <100                                                               | 1                                                                  | <10                                                                       | 18                                                                 | 260                                                              | 6                                                                | 40                                                                         | <1                                                                 | 240                                                             | 50                                                               | <1                                                    |



## 262313080084800 - LATERAL CANAL AT POWERLINE RD IN BOCA RATON FLA

## WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | 2,4-DP,<br>IN<br>BOTTOM<br>MAT.<br>(UG/KG)<br>(34609)                          | DI-<br>SYSTON<br>TOTAL<br>(UG/L)<br>(39011)                            | PHORATE<br>OTAL<br>(UG/L)<br>(39023)                                  | PER-<br>THANE<br>TOTAL<br>(UG/L)<br>(39034)                                   | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L)<br>(39250)       | PCN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39251)            | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39330)          | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39333)          | LINDANE<br>TOTAL<br>(UG/L)<br>(39340)                                                  | LINDANE<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39343)                  | CHLOR-<br>DANE,<br>TOTAL<br>(UG/L)<br>(39350)                                           |
|--------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| NOV<br>12... | --                                                                             | --                                                                     | --                                                                    | --                                                                            | --                                                                             | --                                                                             | --                                                                             | --                                                                              | --                                                                                     | --                                                                                      | --                                                                                      |
| JUL<br>16... | <0.1                                                                           | <0.01                                                                  | <0.01                                                                 | <0.1                                                                          | <0.10                                                                          | <1.0                                                                           | <0.010                                                                         | <0.1                                                                            | <0.010                                                                                 | <0.1                                                                                    | <0.1                                                                                    |
| DATE         | CHLOR-<br>DANE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39351) | DDD,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39360)     | DDD,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39363)   | DDE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39365)            | DDE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39368)            | DDT,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39370)             | DDT,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39373)            | DI-<br>ELDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39380)    | DI-<br>ELDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39383)          | ENDO-<br>SULFAN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39388)          | ENDO-<br>SULFAN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39389)         |
| NOV<br>12... | --                                                                             | --                                                                     | --                                                                    | --                                                                            | --                                                                             | --                                                                             | --                                                                             | --                                                                              | --                                                                                     | --                                                                                      | --                                                                                      |
| JUL<br>16... | 46                                                                             | <0.010                                                                 | 56                                                                    | <0.010                                                                        | 45                                                                             | <0.010                                                                         | 260                                                                            | <0.010                                                                          | 9.6                                                                                    | <0.010                                                                                  | <0.1                                                                                    |
| DATE         | ENDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39390)          | ENDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39393) | ETHION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39398) | ETHION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39399)        | TOX-<br>APHENE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39400)  | TOXA-<br>PHENE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39403) | HEPTA-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39410) | HEPTA-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39413) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOT. IN<br>BOTTOM<br>MATL.<br>TOTAL<br>(UG/L)<br>(39420) | HEPTA-<br>CHLOR<br>EPOXIDE<br>TOT. IN<br>BOTTOM<br>MATL.<br>TOTAL<br>(UG/KG)<br>(39423) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39480)   |
| NOV<br>12... | --                                                                             | --                                                                     | --                                                                    | --                                                                            | --                                                                             | --                                                                             | --                                                                             | --                                                                              | --                                                                                     | --                                                                                      | --                                                                                      |
| JUL<br>16... | <0.010                                                                         | <0.1                                                                   | <0.01                                                                 | <0.1                                                                          | <1                                                                             | <10                                                                            | <0.010                                                                         | <0.1                                                                            | <0.010                                                                                 | <0.1                                                                                    | <0.01                                                                                   |
| DATE         | METH-<br>OXY-<br>CHLOR,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39481)    | PCB,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39516)     | PCB,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39519)   | MALA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39530) | MALA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39531) | PARA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39540)  | PARA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39541) | DI-<br>AZINON,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39570)    | DI-<br>AZINON,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39571)          | GUTHION<br>TOTAL<br>(UG/L)<br>(39580)                                                   | METHYL<br>PARA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39600) |
| NOV<br>12... | --                                                                             | --                                                                     | --                                                                    | --                                                                            | --                                                                             | --                                                                             | --                                                                             | --                                                                              | --                                                                                     | --                                                                                      | --                                                                                      |
| JUL<br>16... | <0.1                                                                           | <0.1                                                                   | 270                                                                   | <0.01                                                                         | <0.1                                                                           | <0.01                                                                          | <0.1                                                                           | 0.01                                                                            | <0.1                                                                                   | <0.10                                                                                   | <0.01                                                                                   |
| DATE         | METHYL<br>PARA-<br>THION,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39601)  | 2,4-D,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39730)   | 2,4-D,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39731) | 2,4,5-T<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39740)         | 2,4,5-T<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39741)         | MIREX,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39755)           | MIREX,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39758)          | SILVEX,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39760)           | SILVEX,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39761)                 | TRI-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39786)            | TRI-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39787)           |
| NOV<br>12... | --                                                                             | --                                                                     | --                                                                    | --                                                                            | --                                                                             | --                                                                             | --                                                                             | --                                                                              | --                                                                                     | --                                                                                      | --                                                                                      |
| JUL<br>16... | <0.1                                                                           | 0.01                                                                   | <0.1                                                                  | <0.01                                                                         | <0.1                                                                           | <0.01                                                                          | <0.1                                                                           | <0.01                                                                           | <0.1                                                                                   | <0.01                                                                                   | <0.1                                                                                    |

## 262313080084800 LATERAL CANAL AT POWERLINE RD IN BOCA RATON FLA

## WATER QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | METHYL<br>TRITHION,<br>TOTAL<br>(UG/L)<br>(39790) | METHYL<br>TRITHION,<br>TOT. IN<br>BOTTOM<br>MATL.<br>(UG/KG)<br>(39791) | SOLIDS,<br>RESIDUE<br>AT 180<br>DEG. C<br>DIS-<br>SOLVED<br>(MG/L)<br>(70300) | SOLIDS,<br>SUM OF<br>CONSTI-<br>TUENTS,<br>DIS-<br>SOLVED<br>(MG/L)<br>(70301) | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG)<br>(71900) | PER-<br>THANE<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(81886) | 2, 4-DP<br>TOTAL<br>(UG/L)<br>(82183) | SAM-<br>PLING<br>METHOD,<br>CODES<br>(82398) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>LAB<br>(US/CM)<br>(90095) | ALKA-<br>LITY<br>LAB<br>(MG/L<br>AS<br>CACO3)<br>(90410) | HARD-<br>NESS<br>NONCAR-<br>BONATE<br>(MG/L<br>AS<br>CACO3)<br>(95902) |
|--------------|---------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------|----------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------|
| NOV<br>12... | --                                                | --                                                                      | 166                                                                           | 150                                                                            | <0.10                                                              | --                                                                  | --                                    | 60.0                                         | 256                                                                 | 56                                                       | 20                                                                     |
| JUL<br>16... | <0.01                                             | <0.1                                                                    | 138                                                                           | 110                                                                            | --                                                                 | <1.00                                                               | <0.01                                 | 40.0                                         | 204                                                                 | <0.1                                                     | 23                                                                     |

## 263337080055500 E-4 CA AT YAMATO RD IN BOCA RATON, FLA

| DATE         | TIME | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010) | TEMPER-<br>ATURE<br>AIR<br>(DEG C)<br>(00020) | BARO-<br>METRIC<br>PRES-<br>SURE<br>(MM<br>OF<br>HG)<br>(00025) | AGENCY<br>COL-<br>LECTING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00027) | AGENCY<br>ANA-<br>LYZING<br>SAMPLE<br>(CODE<br>NUMBER)<br>(00028) | TUR-<br>BID-<br>ITY<br>(NTU)<br>(00076) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>(STAND-<br>ARD<br>UNITS)<br>(00400) | PH<br>LAB<br>(STAND-<br>ARD<br>UNITS)<br>(00403) | ALKA-<br>LITY<br>WH WAT<br>TOTAL<br>FIELD<br>MG/L AS<br>CACO3<br>(00410) |
|--------------|------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------------|
| NOV<br>12... | 1515 | 25.5                                            | 30.0                                          | 760                                                             | 1028                                                               | 80010                                                             | 1.5                                     | 50                                                      | 365                                                          | 7.40                                      | 7.30                                             | 164                                                                      |
| JUL<br>16... | 1510 | 29.5                                            | 34.0                                          | 764                                                             | 1028                                                               | 80020                                                             | 0.70                                    | 80                                                      | 352                                                          | 7.30                                      | 7.30                                             | 138                                                                      |

| DATE         | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3)<br>(00900) | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT FLD<br>MG/L AS<br>CACO3<br>(00902) | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA)<br>(00915) | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG)<br>(00925) | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930) | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO<br>(00931) | PERCENT<br>SODIUM<br>(00932) | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935) | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940) | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945) | FLUO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS F)<br>(00950) | SILICA,<br>DIS-<br>SOLVED<br>(MG/L<br>AS<br>SIO2)<br>(00955) |
|--------------|---------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------|------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|
| NOV<br>12... | 170                                               | 5                                                                            | 64                                                      | 2.2                                                             | 14                                                      | 0.5                                                | 15                           | 1.5                                                            | 22                                                             | 9.6                                                      | <0.10                                                         | 6.6                                                          |
| JUL<br>16... | 160                                               | 19                                                                           | 59                                                      | 2.3                                                             | 13                                                      | 0.5                                                | 15                           | 2.0                                                            | 23                                                             | 14                                                       | 0.20                                                          | 6.6                                                          |

| DATE         | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS)<br>(01002) | BARIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BA)<br>(01007) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD)<br>(01027) | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR)<br>(01034) | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU)<br>(01042) | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE)<br>(01045) | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB)<br>(01051) | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN)<br>(01055) | SILVER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AG)<br>(01077) | STRON-<br>TIUM,<br>DIS-<br>SOLVED<br>(UG/L<br>AS SR)<br>(01080) | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN)<br>(01092) | SELE-<br>NIUM,<br>TOTAL<br>(UG/L<br>AS SE)<br>(01147) |
|--------------|------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------|
| NOV<br>12... | 1                                              | 100                                                                | 1                                                                  | <10                                                                       | 6                                                                  | 1000                                                             | 1                                                                | 20                                                                         | <1                                                                 | 420                                                             | 10                                                               | <1                                                    |
| JUL<br>16... | 2                                              | <100                                                               | 1                                                                  | <10                                                                       | 25                                                                 | 620                                                              | 8                                                                | 40                                                                         | <1                                                                 | 470                                                             | 30                                                               | <1                                                    |

| DATE         | 2,4-DP,<br>IN<br>BOTTOM<br>MAT.<br>(UG/KG)<br>(34609) | DI-<br>SYSTON<br>TOTAL<br>(UG/L)<br>(39011) | PHORATE<br>OTAL<br>(UG/L)<br>(39023) | PER-<br>THANE<br>TOTAL<br>(UG/L)<br>(39034) | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L)<br>(39250) | PCN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39251) | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39330) | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39333) | LINDANE<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39340) | LINDANE<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39343) | CHLOR-<br>DANE,<br>TOTAL<br>(UG/L)<br>(39350) | CHLOR-<br>DANE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39351) |
|--------------|-------------------------------------------------------|---------------------------------------------|--------------------------------------|---------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------|
| NOV<br>12... | --                                                    | --                                          | --                                   | --                                          | --                                                                       | --                                                                  | --                                                                     | --                                                                     | --                                                                     | --                                                                     | --                                            | --                                                                             |
| JUL<br>16... | <0.1                                                  | <0.01                                       | <0.01                                | <0.1                                        | <0.10                                                                    | <1.0                                                                | <0.010                                                                 | <0.1                                                                   | <0.010                                                                 | <0.1                                                                   | <0.1                                          | 1.0                                                                            |

WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

282135081345500 - LATERAL 405 BL L-410 NEAR VINELAND, FL

| DATE         | TIME                                                                      | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>(STAND-<br>ARD<br>UNITS)<br>(00400)                                  | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010)                     | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS)<br>(00080)                   | TUR-<br>BID-<br>ITY<br>(NTU)<br>(00076)                             | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300)                        | HARD-<br>NESS<br>(MG/L<br>AS<br>CACO3)<br>(00900)                      | HARD-<br>NESS<br>NONCARB<br>WH WAT<br>TOT FLD<br>MG/L AS<br>CACO3<br>(00902)  | CALCIUM<br>DIS-<br>SOLVED<br>(MG/L<br>AS CA)<br>(00915)                        | MAGNE-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS MG)<br>(00925)    | SODIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS NA)<br>(00930)             |
|--------------|---------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------|
| NOV<br>04... | 0826                                                                      | --                                                           | --                                                                         | --                                                                  | 560                                                                       | 1.4                                                                 | --                                                                    | 63                                                                     | 27                                                                            | 17                                                                             | 5.0                                                                | 21                                                                  |
| MAR<br>03... | 0755                                                                      | 189                                                          | 5.40                                                                       | 12.5                                                                | 400                                                                       | 1.0                                                                 | 6.5                                                                   | 61                                                                     | 24                                                                            | 16                                                                             | 5.0                                                                | 20                                                                  |
| MAY<br>05... | 0745                                                                      | 195                                                          | 6.10                                                                       | 23.0                                                                | 280                                                                       | 0.30                                                                | 6.6                                                                   | 62                                                                     | 21                                                                            | 16                                                                             | 5.3                                                                | 16                                                                  |
| AUG<br>11... | 0900                                                                      | 198                                                          | 6.20                                                                       | 26.0                                                                | 480                                                                       | 0.50                                                                | 2.2                                                                   | 60                                                                     | 35                                                                            | 16                                                                             | 4.8                                                                | 16                                                                  |
| DATE         | PERCENT<br>SODIUM<br>(00932)                                              | SODIUM<br>AD-<br>SORP-<br>TION<br>RATIO<br>(00931)           | POTAS-<br>SIUM,<br>DIS-<br>SOLVED<br>(MG/L<br>AS K)<br>(00935)             | SULFATE<br>DIS-<br>SOLVED<br>(MG/L<br>AS SO4)<br>(00945)            | CHLO-<br>RIDE,<br>DIS-<br>SOLVED<br>(MG/L<br>AS CL)<br>(00940)            | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L<br>AS N)<br>(00615)     | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L<br>AS N)<br>(00630)       | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L<br>AS N)<br>(00610)        | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00605)               | NITRO-<br>GEN,AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS N)<br>(00625)  | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L<br>AS P)<br>(00665)             | PHOS-<br>PHORUS,<br>ORTHO,<br>TOTAL<br>(MG/L<br>AS P)<br>(70507)    |
| NOV<br>04... | 40                                                                        | 1                                                            | 5.1                                                                        | 38                                                                  | 33                                                                        | 0.020                                                               | 0.400                                                                 | 0.180                                                                  | 1.7                                                                           | 1.9                                                                            | 0.380                                                              | 0.320                                                               |
| MAR<br>03... | 40                                                                        | 1                                                            | 4.8                                                                        | 23                                                                  | 28                                                                        | 0.020                                                               | 0.800                                                                 | 0.070                                                                  | 1.2                                                                           | 1.3                                                                            | 0.320                                                              | 0.320                                                               |
| MAY<br>05... | 34                                                                        | 0.9                                                          | 4.3                                                                        | 27                                                                  | 29                                                                        | 0.020                                                               | 0.220                                                                 | 0.020                                                                  | 1.2                                                                           | 1.2                                                                            | 0.150                                                              | 0.120                                                               |
| AUG<br>11... | 35                                                                        | 0.9                                                          | 3.0                                                                        | 45                                                                  | 26                                                                        | 0.020                                                               | 0.410                                                                 | 0.090                                                                  | 2.0                                                                           | 2.1                                                                            | 0.240                                                              | 0.210                                                               |
| DATE         | ALUM-<br>INUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS AL)<br>(01105) | ARSENIC<br>TOTAL<br>(UG/L<br>AS AS)<br>(01002)               | BERYL-<br>LIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS BE)<br>(01012) | CADMIUM<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CD)<br>(01027)  | CHRO-<br>MIUM,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CR)<br>(01034) | COPPER,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS CU)<br>(01042)  | IRON,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS FE)<br>(01045)      | LEAD,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS PB)<br>(01051)       | MANGA-<br>NESE,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS MN)<br>(01055)    | MERCURY<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS HG)<br>(71900)             | NICKEL,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS NI)<br>(01067) | SELE-<br>NIUM,<br>TOTAL<br>(UG/L<br>AS SE)<br>(01147)               |
| MAY<br>05... | 230                                                                       | <1                                                           | <10                                                                        | <1                                                                  | <10                                                                       | 6                                                                   | 330                                                                   | 2                                                                      | <10                                                                           | 0.80                                                                           | <1                                                                 | <1                                                                  |
| AUG<br>11... | 570                                                                       | 2                                                            | <10                                                                        | <1                                                                  | <10                                                                       | 4                                                                   | 420                                                                   | <5                                                                     | 20                                                                            | <0.10                                                                          | 3                                                                  | <1                                                                  |
| DATE         | ZINC,<br>TOTAL<br>RECOV-<br>ERABLE<br>(UG/L<br>AS ZN)<br>(01092)          | CARBON,<br>ORGANIC<br>TOTAL<br>(MG/L<br>AS C)<br>(00680)     | PCB,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39516)         | PCB,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39519) | NAPH-<br>THA-<br>LENES,<br>POLY-<br>CHLOR.<br>TOTAL<br>(UG/L)<br>(39250)  | PCN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39251) | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39330) | ALDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39333) | CHLOR-<br>DANE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39350) | CHLOR-<br>DANE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39351) | DDD,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39360) | DDD,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39363) |
| MAR<br>03... | --                                                                        | 45                                                           | --                                                                         | --                                                                  | --                                                                        | --                                                                  | --                                                                    | --                                                                     | --                                                                            | --                                                                             | --                                                                 | --                                                                  |
| MAY<br>05... | 40                                                                        | --                                                           | --                                                                         | --                                                                  | --                                                                        | --                                                                  | --                                                                    | --                                                                     | --                                                                            | --                                                                             | --                                                                 | --                                                                  |
| AUG<br>11... | 30                                                                        | 64                                                           | <0.1                                                                       | <1                                                                  | <0.10                                                                     | <1.0                                                                | <0.010                                                                | <0.1                                                                   | <0.1                                                                          | 63                                                                             | <0.010                                                             | <0.1                                                                |

282135081345500 - LATERAL 405 BL L-410 NEAR VINELAND, FL--Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1985 TO SEPTEMBER 1986

| DATE         | DDE,<br>TOTAL<br>(UG/L)<br>(39365)                    | DDE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39368)                    | DDT,<br>TOTAL<br>(UG/L)<br>(39370)             | DDT,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39373)             | DI-<br>AZINON,<br>TOTAL<br>(UG/L)<br>(39570)                                    | DI-<br>AZINON,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39571)    | DI-<br>ELDRIN<br>TOTAL<br>(UG/L)<br>(39380)                                     | DI-<br>ELDRIN<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39383) | ENDO-<br>SULFAN,<br>TOTAL<br>(UG/L)<br>(39388)                                 | ENDO-<br>SULFAN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39389) | ENDRIN,<br>TOTAL<br>(UG/L)<br>(39390)                                          | ENDRIN,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39393) |
|--------------|-------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------|
|              |                                                       |                                                                                        |                                                |                                                                                 |                                                                                 |                                                                                  |                                                                                 |                                                                              |                                                                                |                                                                                 |                                                                                |                                                                        |
| AUG<br>11... | <0.010                                                | 0.8                                                                                    | <0.010                                         | <0.1                                                                            | 0.01                                                                            | <0.1                                                                             | <0.010                                                                          | 0.1                                                                          | <0.010                                                                         | <0.1                                                                            | <0.010                                                                         | <0.1                                                                   |
| DATE         | ETHION,<br>TOTAL<br>(UG/L)<br>(39398)                 | ETHION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39399)                 | HEPTA-<br>CHLOR,<br>TOTAL<br>(UG/L)<br>(39410) | HEPTA-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39413) | HEPTA-<br>EPOXIDE<br>TOTAL<br>(UG/L)<br>(39420)                                 | HEPTA-<br>EPOXIDE<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39423) | MIREX,<br>TOTAL<br>(UG/L)<br>(39755)                                            | LINDANE<br>TOTAL<br>(UG/L)<br>(39340)                                        | LINDANE<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39343)         | MALA-<br>THION,<br>TOTAL<br>(UG/L)<br>(39530)                                   | MALA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39531) |                                                                        |
| AUG<br>11... | <0.01                                                 | <0.1                                                                                   | <0.010                                         | <0.1                                                                            | <0.010                                                                          | <0.1                                                                             | <0.01                                                                           | <0.010                                                                       | <0.1                                                                           | 0.02                                                                            | <0.1                                                                           |                                                                        |
| DATE         | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>(UG/L)<br>(39480) | METH-<br>OXY-<br>CHLOR,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39481) | GUTHION<br>TOTAL<br>(UG/L)<br>(39580)          | METHYL<br>THION,<br>TOTAL<br>(UG/L)<br>(39600)                                  | METHYL<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39601) | METHYL<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/L)<br>(39790)   | METHYL<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39791) | PARA-<br>THION,<br>TOTAL<br>(UG/L)<br>(39540)                                | PARA-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39541) | DI-<br>SYSTON<br>TOTAL<br>(UG/L)<br>(39011)                                     | PHORATE<br>TOTAL<br>(UG/L)<br>(39023)                                          |                                                                        |
| AUG<br>11... | <0.01                                                 | <0.1                                                                                   | <0.10                                          | <0.01                                                                           | <0.1                                                                            | <0.01                                                                            | <0.1                                                                            | <0.01                                                                        | <0.1                                                                           | <0.01                                                                           | <0.01                                                                          |                                                                        |
| DATE         | PER-<br>THANE<br>TOTAL<br>(UG/L)<br>(39034)           | PER-<br>THANE<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(81886)           | TOX-<br>APHENE,<br>TOTAL<br>(UG/L)<br>(39400)  | TOXA-<br>PHENE,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39403)  | TOTAL<br>TRI-<br>THION<br>(UG/L)<br>(39786)                                     | TRI-<br>THION,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39787)    | 2,4-D,<br>TOTAL<br>(UG/L)<br>(39730)                                            | 2,4,5-T<br>TOTAL<br>(UG/L)<br>(39740)                                        | MIREX,<br>TOTAL<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG)<br>(39758)          | SILVEX,<br>TOTAL<br>(UG/L)<br>(39760)                                           | 2, 4-DP<br>TOTAL<br>(UG/L)<br>(82183)                                          |                                                                        |
| AUG<br>11... | <0.1                                                  | <1.00                                                                                  | <1                                             | <10                                                                             | <0.01                                                                           | <0.1                                                                             | <0.01                                                                           | <0.01                                                                        | <0.1                                                                           | <0.01                                                                           | <0.01                                                                          |                                                                        |

## 022662947 - CANAL 405 AT FORCE MAIN NEAR VINELAND, FL

| DATE         | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(US/CM)<br>(00095) | PH<br>(STAND-<br>ARD<br>UNITS)<br>(00400)                        | TEMPER-<br>ATURE<br>WATER<br>(DEG C)<br>(00010)         | OXYGEN,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00300)                            | NITRO-<br>GEN,<br>NITRATE<br>DIS-<br>SOLVED<br>(MG/L)<br>(00618)                   | NITRO-<br>GEN,<br>NITRITE<br>TOTAL<br>(MG/L)<br>(00615) | NITRO-<br>GEN,<br>NITRITE<br>SOLVED<br>(MG/L)<br>(00613) | NITRO-<br>GEN,<br>NO2+NO3<br>TOTAL<br>(MG/L)<br>(00630)                  | NITRO-<br>GEN,<br>NO2+NO3<br>DIS-<br>SOLVED<br>(MG/L)<br>(00631)         |
|--------------|------|--------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|
| APR<br>28... | 1145 | 161                                                          | 6.30                                                             | 21.5                                                    | 3.2                                                                       | 0.760                                                                              | 0.020                                                   | 0.020                                                    | 0.780                                                                    | 0.780                                                                    |
| JUN<br>03... | 1130 | 160                                                          | 6.70                                                             | --                                                      | --                                                                        | --                                                                                 | --                                                      | --                                                       | --                                                                       | --                                                                       |
| 18...        | 1400 | --                                                           | --                                                               | --                                                      | --                                                                        | --                                                                                 | 0.010                                                   | --                                                       | 0.040                                                                    | --                                                                       |
| 19...        | 1345 | --                                                           | --                                                               | --                                                      | --                                                                        | --                                                                                 | 0.010                                                   | --                                                       | 0.040                                                                    | --                                                                       |
| 20...        | 1230 | --                                                           | --                                                               | --                                                      | --                                                                        | --                                                                                 | 0.010                                                   | --                                                       | 0.030                                                                    | --                                                                       |
| DATE         |      | NITRO-<br>GEN,<br>AMMONIA<br>TOTAL<br>(MG/L)<br>(00610)      | NITRO-<br>GEN,<br>AMMONIA<br>DIS-<br>SOLVED<br>(MG/L)<br>(00608) | NITRO-<br>GEN,<br>ORGANIC<br>TOTAL<br>(MG/L)<br>(00605) | NITRO-<br>GEN,<br>AM-<br>MONIA +<br>ORGANIC<br>TOTAL<br>(MG/L)<br>(00625) | NITRO-<br>GEN,<br>AM-<br>MONIA +<br>ORGANIC<br>DIS-<br>SOLVED<br>(MG/L)<br>(00623) | PHOS-<br>PHORUS,<br>TOTAL<br>(MG/L)<br>(00665)          | PHOS-<br>PHORUS,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00666)  | PHOS-<br>PHORUS,<br>ORTH-<br>THO,<br>DIS-<br>SOLVED<br>(MG/L)<br>(70507) | PHOS-<br>PHORUS,<br>ORTH-<br>THO,<br>DIS-<br>SOLVED<br>(MG/L)<br>(00671) |
| APR<br>28... |      | 0.150                                                        | 0.160                                                            | 1.4                                                     | 1.6                                                                       | 1.3                                                                                | 0.130                                                   | 0.060                                                    | 0.060                                                                    | 0.040                                                                    |
| JUN<br>18... |      | 0.130                                                        | --                                                               | 1.7                                                     | 1.8                                                                       | --                                                                                 | 0.120                                                   | --                                                       | 0.100                                                                    | --                                                                       |
| 19...        |      | 0.140                                                        | --                                                               | 2.0                                                     | 2.1                                                                       | --                                                                                 | 0.130                                                   | --                                                       | 0.070                                                                    | --                                                                       |
| 20...        |      | 0.190                                                        | --                                                               | 1.7                                                     | 1.9                                                                       | --                                                                                 | 0.140                                                   | --                                                       | 0.080                                                                    | --                                                                       |





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**CALENDAR FOR WATER YEAR 1986**

1985

## OCTOBER

| S  | M  | T  | W  | T  | F  | S  |
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|    |    | 1  | 2  | 3  | 4  | 5  |
| 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 |    |    |

## NOVEMBER

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| S  | M  | T  | W  | T  | F  | S  |
|    |    |    |    |    | 1  | 2  |
| 3  | 4  | 5  | 6  | 7  | 8  | 9  |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |

## DECEMBER

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  |
| 8  | 9  | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 |    |    |    |    |

1986

## JANUARY

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| S  | M  | T  | W  | T  | F  | S  |
|    |    |    | 1  | 2  | 3  | 4  |
| 5  | 6  | 7  | 8  | 9  | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 |    |

## FEBRUARY

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| S  | M  | T  | W  | T  | F  | S  |
|    |    |    |    |    |    | 1  |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 |    |

## MARCH

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    |    |    | 1  |
| 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 |    |    |    |    |    |

## APRIL

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    | 1  | 2  | 3  | 4  | 5  |
| 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 |    |    |    |

## MAY

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| S  | M  | T  | W  | T  | F  | S  |
|    |    |    |    | 1  | 2  | 3  |
| 4  | 5  | 6  | 7  | 8  | 9  | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

## JUNE

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  |
| 8  | 9  | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 |    |    |    |    |    |

## JULY

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| S  | M  | T  | W  | T  | F  | S  |
|    |    | 1  | 2  | 3  | 4  | 5  |
| 6  | 7  | 8  | 9  | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 |    |    |

## AUGUST

| S  | M  | T  | W  | T  | F  | S  |
|----|----|----|----|----|----|----|
|    |    |    |    |    | 1  | 2  |
| 3  | 4  | 5  | 6  | 7  | 8  | 9  |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 |    |    |    |    |    |    |

## SEPTEMBER

|    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|
| S  | M  | T  | W  | T  | F  | S  |
|    | 1  | 2  | 3  | 4  | 5  | 6  |
| 7  | 8  | 9  | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 |    |    |    |    |



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