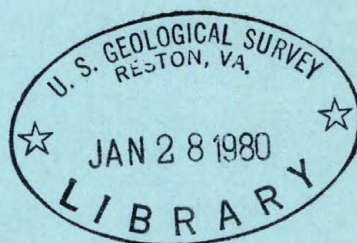


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Water Resources Data for Florida

Volume 2A1. South Florida Surface Water



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT FL-78-2A1

WATER YEAR 1978

Prepared in cooperation with the State of Florida
and with other agencies

CALENDAR FOR WATER YEAR 1978

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Water Resources Data for Florida

Volume 2A1. South Florida Surface Water

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT FL-78-2A1

WATER YEAR 1978

Prepared in cooperation with the State of Florida
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

H. William Menard, Director

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

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Tallahassee, Florida 32303

PREFACE

This report was prepared by the U.S. Geological Survey in cooperation with the state of Florida and with other agencies by personnel of the Florida district of the Water Resources Division under the supervision of C. S. Conover, District Chief, G. W. Leve, Hydrologist-in-Charge, Northeast Field Headquarters, J. M. Kimrey, Chief, East-Central Florida Subdistrict, and L. B. Laird, Regional Hydrologist, Southeastern Region, succeeded by R. J. Dingman.

This report is one of a series issued state by state under the general direction of J. S. Cragwall, Jr., Chief Hydrologist.

Data for Florida are in four volumes as follows:

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

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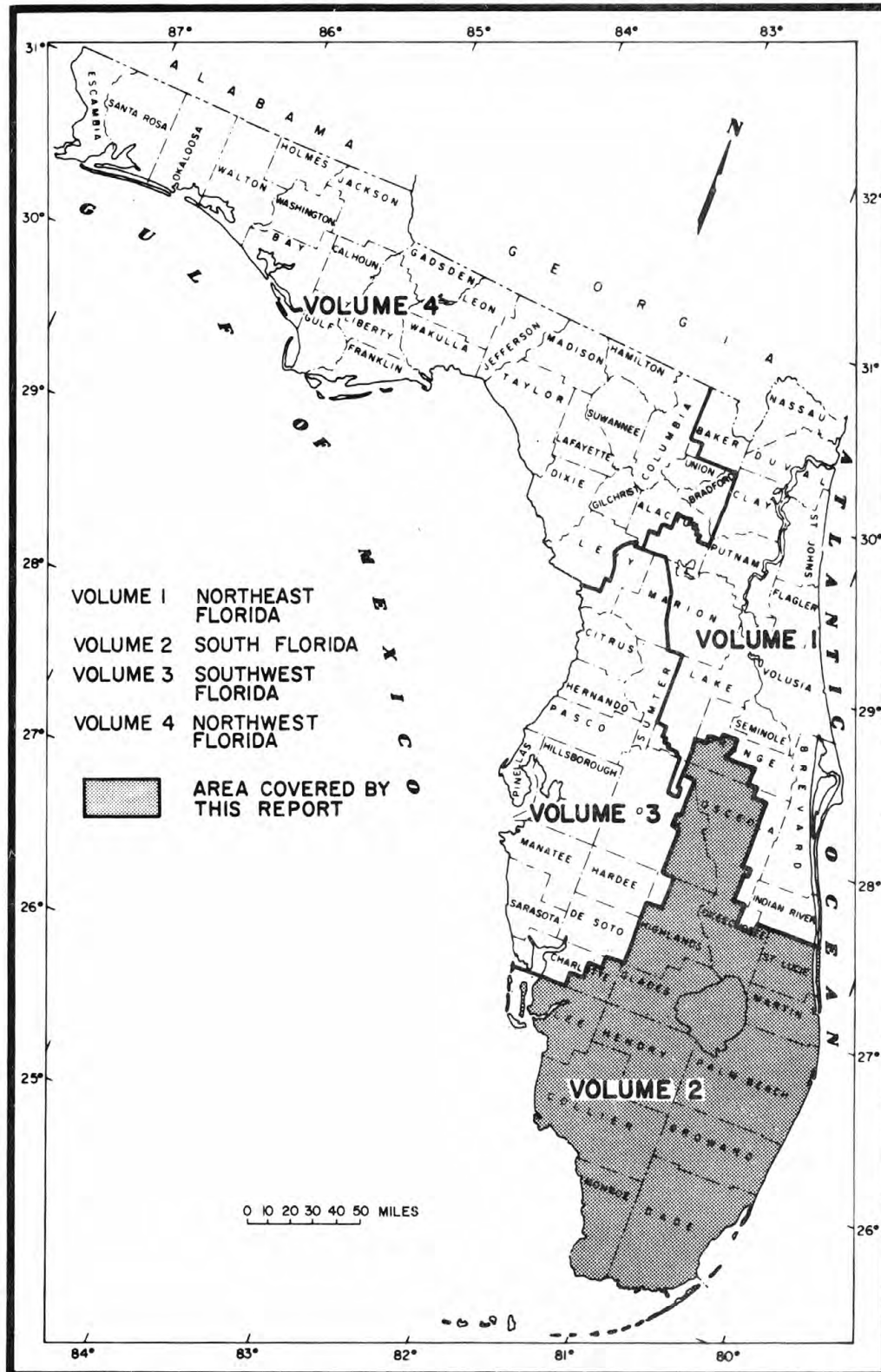


Figure 1. Geographic area covered by this report.

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FOR WHICH DATA ARE INCLUDED IN THIS REPORT

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INTRODUCTION

Water resources data for the 1978 water year for northeast Florida consist of records of stage, discharge, and water quality of streams; elevation and water quality of lakes and reservoirs; water-levels and water quality of wells; and discharge and water quality of springs. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating state and federal agencies in Florida.

Records of discharge and stage of streams, and contents (or elevations) of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from the Branch of Distribution, U.S. Geological Survey, 1200 South Eads, Alexandria, VA 22202.

For water years 1961 through 1974, streamflow data were released by the U.S. Geological Survey in annual reports on a state-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published in official Survey reports on a state-boundary basis. These official Survey reports carry 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-78-2A-1". For archiving and general distribution, the reports for water years 1971-74 are also 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 district chief at the address given on the back of the title page or by telephone (518) 472-2457.

COOPERATION

The systematic collection of water resources data in the State of Florida by the U.S. Geological Survey began in 1930 and has been continued in cooperation with state, federal, and local agencies. The data for this report were collected as part of a cooperative program with the following agencies:

Florida Department of Environmental Regulation	City of Boca Raton
Florida Department of Pollution Control	City of Cocoa
Florida Department of Transportation	City of Deerfield Beach
Florida Division of Parks and Recreation	City of Ft. Lauderdale
South Florida Water Management District	City of Hallandale
Loxahatchee River Environmental Control District	City of Highland Beach
Reedy Creek Improvement District	City of Hollywood
Miami-Dade Water and Sewer District	City of Juno Beach
County of Brevard	City of Lake Worth
County of Broward	City of Miami Beach
Broward County Environmental Quality Control Board	Old Plantation Water Control District
County of Collier	City of Pompano Beach
Collier County Water Management District No. 1	City of Riviera Beach
Collier County Water Management District No. 7	Village of Tequesta
County of Dade	City of West Palm Beach
County of Hendry	Corps of Engineers, U.S. Army
County of Lake	National Aeronautics and Space Administration
County of Lee	National Park Service, U.S. Department of the Interior
County of Martin	U.S. Air Force
County of Orange	U.S. Environmental Protection Agency
County of Palm Beach	U.S. Navy
Florida Keys Aquaduct Authority	

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Cubic feet 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.

Cubic foot per second (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.

Detergents (methylene blue active substance, MBAS). Anionic surfactants in detergents resist chemical oxidation and biological breakdown. Soap is an example of this class and the synthetic members are sodium salts of organic sulfonates or sulfates (Rose, 1966). Their persistence in water over long periods of time contributes to pollution of both ground water and surface water. Some of the effects produced from detergent pollution are unpleasant taste, odor, and foaming (Wayman, and others, 1962). Although the physiological implications of MBAS to human beings is unknown, prolonged ingestion of this material by rats is believed to be nontoxic (Paynter, 1960). The U.S. Public Health Service (1962) recommends that MBAS should not exceed 0.5 mg/L in drinking and culinary waters. ISD-W (1971) sets 0.2 mg/L as the highest desirable level and 1.0 mg/L as the maximum permissible level.

Discharge, is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Mean discharge 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 is that material in a representative water sample which passes through a 0.45 μ 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.

Drainage area of a stream at a specific 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 river above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

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 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 gage height of discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Micrograms per liter (ug/L) is a unit expressing the concentration of chemical constituents in solution as weight (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram liter.

Milligrams per liter (mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the weight of solute per unit volume of water. Concentration of suspended sediment can also be expressed in mg/L based on the mass of sediment per liter of sample.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum arrived 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, such as an insect, phytoplankter, or zooplankter.

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).

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 meters (m^2), acres, or hectares. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

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

Periphyton is the assemblage of microorganisms attached to and growing upon solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton is a useful indicator of water quality.

Pesticides are chemical compounds used to control the growth of undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Since the first application of DDT as an insecticide in the early 1930's, there have been almost 60,000 pesticide formulations registered, each containing at least one of the approximately 800 different basic pesticide compounds (Goerlitz and Brown, 1972, p. 24). The United States annually produces about one billion pounds of these compounds. Although efforts are being made to substitute many of the chlorinated hydrocarbon pesticides with more specific, fast acting, and easily degradable compounds, chlorinated hydrocarbon pesticides are still commonly used in many areas of the country.

DEFINITION OF TERMS

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

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

Bacteria are microscopic unicellular organisms, typically spherical, rod-like, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, 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, non-spore-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 which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C + 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 intestines 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 which produce blue colonies within 24 hours when incubated at 44.5°C + 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 are bacteria found also in the intestines 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 + 1.0°C on M-enterococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

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 microorganisms, such as bacteria.

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

Ash weight is the weight or amount of residue present after the residue from the dry weight determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash weight values of zooplankton and phytoplankton are expressed in g/m³ (grams per cubic meter), and periphyton and benthic organisms in g/m² (grams per square meter).

Dry weight refers to the weight of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the weight remains unchanged. This weight represents the total organic matter, ash and sediment, in the sample. Dry weight values are expressed in the same units as ash weight.

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

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

Cfs-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, 1.9835 acre-feet, or approximately 646,000 gallons, and represents a runoff of approximately 0.0372 inch from 1 square mile.

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.

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 salt water.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per 100 mL of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per 100 mL of sample.

A picocurie (pCi) is one millionth of the amount of radioactivity represented by a microcurie, 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.

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Radioisotopes are isotope forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. For example: Ordinary chlorine is a mixture of isotopes having atomic weights 35 and 37, with the natural mixture having an atomic weight about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron (Rose 1966). There are 275 isotopes of the 81 stable elements in addition to over 800 radioactive isotopes.

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 only 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.

Runoff in inches (IN.) shows the depth of 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 transformed 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, soil characteristics, land usage, and quantity and intensity of precipitation.

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.

Sediment discharge is the rate at which suspended sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight, or by volume, that is discharged in a given time.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks and dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos 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 micromhos). This relation is not constant from stream to stream, and it may even vary in the same source with changes in the composition of the water (Durfor and Becker, 1964 p. 2729).

Stage-discharge relation is the relation between gage height and the 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 U.S.G.S. 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 stages when the various maps were made.

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 ug 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 would be required for all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determination 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 ug 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.

Thermograph is a thermometer that continuously and automatically records on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the location of the thermograph or a digital mechanism that automatically records water temperature on paper tape.

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

Total 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 forms 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 determines all of the constituent in the sample.)

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. 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 judge when the results should be reported as "total in bottom material."

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 would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total organic carbon (TOC) is a measure of the organically related carbonaceous content of water. It includes all natural and man-made organic compounds which are combustible at a temperature of 950°C.

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. Thus, the water year beginning October 1, 1970 and ending September 30, 1971 is called the "1971 water year."

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published state annual basic-data reports.

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

SPECIAL NETWORKS

Some of the stations for which data are published in this report are included in special networks and programs. These stations are identified by their title, set in parentheses, under the station name.

The National Stream Quality Accounting Network (NASQAN) has been designed to meet many of the information demands of agencies or groups involved in planning and management on a national or regional scale. These agencies include the Water Resources Council, Council on Environmental Quality, Environmental Protection Agency, and interstate or State-Federal units, such as river-basin commissions or river-compact commissions.

The primary objectives of the accounting network are (1) to depict areal variability of water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in stream quality. In implementing the network, one or more stations in each river-basin unit is selected so as to sample a major part of the surface-water discharge from the unit. The NASQAN stations in Florida are shown in Figure 2.

Both accounting and broad-scale monitoring objectives have been incorporated in the network design. Temperature, specific conductance, the major inorganic constituents, sediment, organic and minor inorganic constituents, bacterial content, and other biological parameters are measured periodically to provide information on their range, diversity, and variability. The ability of the stream to support biological life is assessed by periodic observations of the lower forms of aquatic plants and animals. Information obtained from the accounting network stations will provide a broad base of water-quality data on streams throughout the nation.

Pesticide program is a network of regularly sampled water-quality stations where additional samples are collected to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in streams in areas where potential contamination could result from the application of the commonly used insecticides and herbicides.

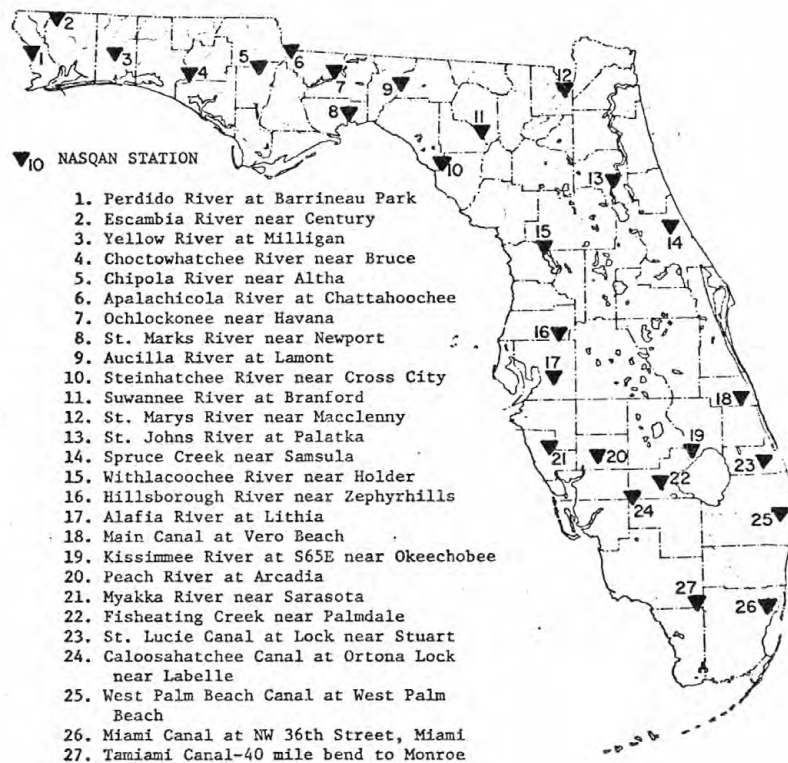


Figure 2. NASQAN Sites in Florida.

STATION IDENTIFICATION

Downstream order and station number

Surface water stations are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the lists of gaging stations and water-quality stations in the front of this report the rank of tributaries is indicated by indentation, each indentation representing one rank.

As an added means of identification, each gaging station, partial-record station, and water-quality station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. 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 8-digit number for each station, such as 02335500, which appears just to the left of the station name includes the 2-digit part number "02" plus the 6-digit downstream order number "335500." In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. All records for a drainage basin encompassing more than one state can be arranged in downstream order by assembling pages from the various state reports by station number to include all records in the basin.

Numbering system for wells and miscellaneous sites

Downstream order station numbers are not assigned to wells, and to miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits is a sequential number for sites within a 1-second grid. In the event that the latitude-longitude coordinates for two sites are the same, sequential numbers "01," "02," are assigned to give each site a unique number. See figure below.

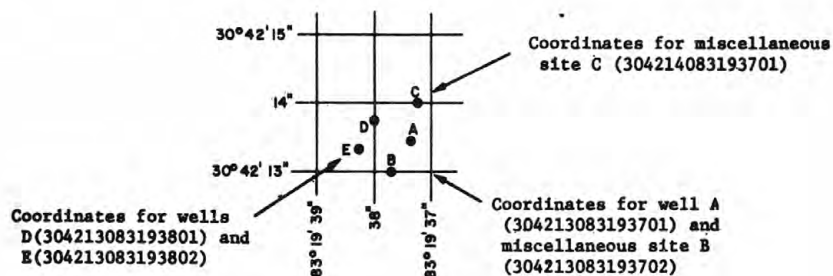


Figure 3. System for numbering wells and miscellaneous sites.
(latitude and longitude)

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the U.S. Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted opening measurements, computations of flow over dams or weirs), step backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily figures. If the stage-discharge relations is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by 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 determining 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 determining discharge.

At some stations there is no relation between stage and discharge because of the flat stream gradients and/or tidal fluctuations. Discharge is determined from ratings which are based on a relation between recorded deflection (velocity index unit) at a fixed point and mean velocity at a fixed measuring section, and a relation between recorded stage and cross-sectional area at the measuring site.

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. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, the fact is brought out by notations 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 revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use; the datum of the present gage referred to National Geodetic Vertical Datum; and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS" on page 3.

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. Under "EXTREMES" are given first, the extremes for the period or record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR THE CURRENT YEAR: if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharge is not published for any canals, ditches, drains, or for any stream for which peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

Skeleton rating tables are published, immediately following EXTREMES, for stream-gaging stations where they serve a useful purpose and the dates of applicability can be easily identified.

The daily table for stream-gaging stations gives the 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 may be 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, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

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 discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage 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.

Accuracy of field data and computed results

The accuracy of discharge data 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 observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges is within 5 percent; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures 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 of losses are large in comparison with the observed discharge.

Other data available

Information of a more detailed nature than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

The descriptive heading for water-quality records at surface water stations where parameters are measured on a daily basis (specific conductance, pH, dissolved oxygen, water temperature, sediment discharge, etc.) gives the period of record for the daily water-quality parameters; extremes for the period of record, extremes for the current year; and general remarks. The chemical analyses of samples collected at these sites are given immediately following the daily records.

For records collected at miscellaneous surface water sites and ground water sites no descriptive statements are given, however, the site number, date of sampling and other pertinent data are given in the table of chemical analyses.

Water analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

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.

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 chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the district office.

Water temperature

Water temperatures are measured at most of the water-quality stations. For daily stations, the water temperatures are taken at about the same time each day in order that the data would not reflect diurnal variations in water temperature. Most large streams have small diurnal variations in water temperature; small, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. The thermometers used for determining the water temperature are accurate to plus or minus 0.5°C.

At stations where thermographs are located, the records consist of maximum and minimum temperatures for each day and the monthly average of maximum and minimum daily temperatures.

Sediment

Suspended sediment samples were collected monthly at stations in the Hydrologic Benchmark Network and National Stream Quality Accounting Network with depth-integrating samplers. Depth integrated samples were collected at three or more verticals in the cross section to determine variations in the cross section and to more accurately determine suspended sediment loads. Daily sediment loads in tons per day are reported for day on which samples were collected.

Mineral constituents in solution

All natural waters contain dissolved mineral matter. The quantity of dissolved mineral matter in natural water depends primarily on the type of rocks or soils with which the water has been in contact and the length of time of contact. Ground water is generally more highly mineralized than surface runoff because it remains in contact with the rocks and soils for much longer periods. Many streams are fed by both surface runoff and ground water from seepage or direct spring inflow. Such streams reflect the character of the more mineralized ground water during dry periods and are diluted by surface runoff during wet periods.

The mineral constituents and physical properties of waters reported in this report include those that have a practical bearing on water use. The results of analyses generally include silica, iron, calcium, magnesium, sodium, potassium, carbonate, bicarbonate, sulfate, chloride, fluoride, nitrate, pH, dissolved solids, and specific conductance. Aluminum, manganese, color, dissolved oxygen, and other dissolved constituents and physical properties are reported for certain streams. Microbiologic and organic components (pesticides, total organic carbon) and minor elements (arsenic, cobalt, cadmium, copper, lead, mercury, nickel, strontium, zinc, etc.) are determined occasionally for some streams in connection with specific studies and the results are reported. The source and significance of a number of constituents and properties of natural waters are discussed in the following table.

Table 1. Significance of dissolved mineral constituents and properties of water

Constituent or property	Source or cause	Significance
Alkalinity	Caused primarily by bicarbonate, carbonate, and hydroxide. Other weak acid radicals like borate, phosphate, and silicate may contribute to alkalinity.	Ability of water to neutralize strong acid. High alkalinity itself not detrimental but usually associated with high pH, hardness, and dissolved solids which can be detrimental.
Aluminum (Al)	Usually present only in negligible quantities in natural waters except where the waters have been in contact with the more soluble rocks of high aluminum content. Acid waters often contain large amounts.	May be troublesome in feed waters forming scale on boiler tubes. High concentrations usually indicate the presence of acid mine drainage or industrial waste.
Arsenic (As)	Natural arsenic bearing minerals. Found in some ground waters, in wastes from industry and mining activity, and residues from some insecticides and herbicides.	National Interim Primary Drinking Water Regulations, (1975), give a limit of 50 ug/L for potable waters. Lethal dose for animals is believed to be about 20 milligrams per animal pound. Small concentrations in drinking water can accumulate in man and other animals until lethal dosage is reached.
Bicarbonate (HCO ₃) and Carbonate (CO ₃)	Produced by reaction of atmospheric carbon dioxide with water. Dissolved from carbonate rocks such as limestone and dolomite.	Bicarbonate and carbonate produce alkalinity. Bicarbonates of calcium and magnesium decompose in steam boilers and hot water facilities to precipitate as scale and release corrosive carbon dioxide gas. In combination with calcium and magnesium cause carbonate hardness.

Table 1 (con't.)

Constituent or property	Source or cause	Significance
Cadmium (Cd)	Found in wastes from pigment works, textile printing, lead mines, and chemical industries.	The results of animal studies suggest that very small amounts of cadmium can produce nephrotoxic and cardiovascular effects. The reproductive organs of animals are specifically affected after parenteral administration of very small amounts of cadmium salts. National Interim Primary Drinking Water Regulations, (1975), state that cadmium in excess of 10 ug/L is cause for rejection of the water supply. Cadmium is also toxic to fish and aquatic life in varying concentrations.
Calcium (Ca) and Magnesium (Mg)	Dissolved from practically all soils and rocks, but especially from limestone, dolomite, and gypsum. Calcium and magnesium are found in large quantities in some brines. Magnesium is present in large quantities in seawater.	Cause most of the hardness and scale-forming properties of water; consumes soap (see hardness). Waters low in calcium and magnesium are desired in electroplating, tanning, dyeing, and in textile manufacturing.
Chloride (Cl)	Dissolved from rocks and soils. Present in sewage and found in large amounts in ancient brines, seawater, and industrial brines.	About 300 mg/L in combination with sodium gives salty taste to water. Increases the corrosiveness of water. National Secondary Drinking Water Regulations (1977) recommend that the chloride content should not exceed 250 mg/L.
Chromium (Cr)	Few if any waters contain chromium from natural sources. Natural waters probably contain only traces of chromium as a cation unless the pH is very low. When chromium is present in water, it is usually the result of pollution by industrial wastes such as metal pickling, plating, manufacturing of paints, dyes, explosives, ceramics, paper, glass, and photography processing.	National Interim Primary Drinking Water Regulations, (1975), limit the maximum concentration of hexavalent chromium to 50 ug/L. Toxicity to aquatic life varies widely with the species, temperature, pH, and other factors.
Cobalt (Co)	Cobalt occurs in nature in the minerals smaltite, $(Co,Ni)As_2$, and cobaltite, $CoAsS$. Alluvial deposits and soils derived from shales often contain cobalt in the form of phosphate or sulfate, but other soil types may be markedly deficient in cobalt in any form (Bear, 1955). Biological activity may aid in the solution of small amounts of cobalt. May also be present in industrial wastes especially those from manufacture of ceramics, inks, electric heating units, and cobalt pigments.	Usually suggests pollution. Relatively low toxicity to man. Fish and aquatic life tolerance varies widely from less than 3 mg/L to more than 10 mg/L. Essential in trace quantities for plant growth.
Color	Yellow-to-brown color of some water is usually caused by organic matter extracted from leaves, roots, and other organic substances. Objectionable color in water also results from industrial wastes and sewage.	Water for domestic and some industrial uses should be free from perceptible color. The National Secondary Drinking Regulations (1977) proposes a limit of 15 Pt-Co units. Color in water is objectionable in food and beverage processing and many manufacturing processes. Limits light penetration in water, thus preventing growth of some organisms.

Table 1 (con't)

Constituent or property	Source or cause	Significance										
Copper (Cu)	Copper is a fairly common trace constituent of natural water. Small amounts may be introduced into water by solution of copper and brass water pipes and other copper-bearing equipment in contact with the water or from copper salts added to control algae in open reservoirs. Copper salts such as the sulfate and chloride are highly soluble in waters with a low pH but in water of normal alkalinity the salts hydrolyze and copper may be precipitated. In the normal pH range of natural water containing carbon dioxide, the copper might be precipitated as carbonate.	Copper imparts a disagreeable metallic taste to water. As little as 1.5 mg/L can usually be detected, and 5 mg/L can render the water unpalatable. Copper is not considered to be a cumulative systemic poison like lead and mercury; most copper ingested is excreted by the body and very little is retained. The pathological effects of copper are controversial, but it is generally believed very unlikely that humans could unknowingly ingest the toxic quantities from palatable drinking water. The National Secondary Drinking Water Regulations (1977) recommends that copper should not exceed 1000 ug/L in drinking and culinary water. Copper is essential in trace amounts for plant growth but becomes toxic in large amounts.										
Dissolved Oxygen (DO)	Dissolved in water from air and from oxygen given off in the process of photosynthesis by aquatic plants.	Dissolved oxygen increases the palatability of water. The amount necessary to support fish life varies with species and age, with temperature, and concentration of other constituents in the water. Under average stream conditions, 5 mg/L is usually necessary to maintain a varied fish fauna in good condition. For many industrial uses, zero dissolved oxygen is desirable to inhibit corrosion.										
Dissolved solids	Chiefly mineral constituents dissolved from weathering of rocks and soils.	The National Secondary Drinking Water Regulations (1977) recommend that the dissolved solids should not exceed 500 mg/L, however, 1,000 mg/L is permitted under certain circumstances. Waters containing more than 1,000 mg/L of dissolved solids are unsuitable for many purposes. The Geological Survey classifies the degree of salinity of these more mineralized bodies of water as follows (Swenson and Baldwin, 1965): <table><tr><th>Dissolved solids (mg/L)</th><th>Degree of salinity</th></tr><tr><td>Less than 1,000.....</td><td>Nonsaline.</td></tr><tr><td>1,000 to 3,000.....</td><td>Slightly saline.</td></tr><tr><td>3,000 to 10,000.....</td><td>Moderately saline.</td></tr><tr><td>10,000 to 35,000....</td><td>Very saline.</td></tr></table>	Dissolved solids (mg/L)	Degree of salinity	Less than 1,000.....	Nonsaline.	1,000 to 3,000.....	Slightly saline.	3,000 to 10,000.....	Moderately saline.	10,000 to 35,000....	Very saline.
Dissolved solids (mg/L)	Degree of salinity											
Less than 1,000.....	Nonsaline.											
1,000 to 3,000.....	Slightly saline.											
3,000 to 10,000.....	Moderately saline.											
10,000 to 35,000....	Very saline.											
Fluoride (F)	Dissolved in small to minute quantities from most rocks and soils. Enters many waters from fluoridation of municipal supplies.	Fluoride in drinking water reduces the incidence of tooth decay when the water is consumed during the period of enamel calcification. However, it may cause mottling of the teeth depending on the concentration of fluoride, the age of the child, amount of drinking water consumed, and susceptibility of the individual. (Maier, 1950).										
Hardness (as CaCO3)	In most waters nearly all the hardness is due to calcium and magnesium. All of the metallic cations other than the alkali metals also cause hardness.	Consumes soap before a lather will form. Deposits soap curd on bathtubs. Hard water forms scale in boilers, water heaters, and pipes. Hardness equivalent to the bicarbonate and carbonate is called carbonate hardness. Any hardness in excess of this is called non-carbonate hardness. Waters of hardness up to 60 mg/L are considered soft; 61 to 120 mg/L, moderately hard; 121 to 200 mg/L, hard; more than 200 mg/L, very hard.										

Table 1 (con't)

Constituent or property	Source or cause	Significance
Iron (Fe)	Iron is dissolved from many rocks and soils. On exposure to air, normal basic waters that contain more than 1 mg/L of iron soon become turbid with the insoluble reddish ferric compounds produced by oxidation. Surface waters, therefore, seldom contain as much as 1 mg/L of dissolved iron, although some acid waters carry large quantities of iron in solution.	The National Secondary Drinking Water Regulations (1977) recommends a limit of 300 ug/d. On exposure to air, iron in ground water oxidizes to reddish-brown sediment. More than about 300 ug/L may stain laundry and utensils reddish-brown. Objectionable for food processing, textile processing, beverages, ice manufacture, brewing and other processes. USPHS drinking water standards state that for esthetic reasons iron and manganese should not exceed 300 ug/L. Larger quantities cause unpleasant taste and favor growth of iron bacteria.
Lead (Pb)	Lead seldom occurs in most natural waters, but industrial mine and smelter effluents may contain relatively large amounts of lead which contaminates the streams. Also, atmospheric contamination which is produced from several types of engine exhausts has considerably increased the availability of this element for solution in rainfall, resulting in contamination of lead in streams (Hem, 1970). Lead in the form of sulfate is reported to be soluble in water to the extent of 31 mg/L (Seidell, 1940) at 25°C. In natural water this concentration would not be approached however, since a pH of less than 4.5 would probably be required to prevent formation of lead hydroxide and carbonate. It is reported (Pleissner, 1907) that at 18°C water free of carbon dioxide will dissolve the equivalent of 1.4 mg/L of lead and the solubility is increased nearly four fold by the presence of 2.8 mg/L of carbon dioxide in the solution. Presence of other ions may increase the solubility of lead.	National Interim Primary Drinking Water Regulations, (1975), that lead shall not exceed 50 ug/L in drinking and culinary water on carriers subject to Federal quarantine regulations. Maximum safe concentrations for animal watering is reported to be 500 ug/L. Toxicity of lead to fish decreases with increasing water hardness.
Manganese (Mn)	Dissolved from some rocks and soils. Not as common as iron. Large quantities often associated with high iron content and with acid waters.	Same objectionable features as iron. Causes dark brown or black stain. The National Secondary Drinking Water Regulations (1977) proposes that manganese should not exceed 0.3 mg/L.
Nickel (Ni)	Chiefly from metalplating works, manufacturing of ceramic colors, and inks.	Presence of nickel in water may suggest pollution. Federal drinking water standards do not place a limit on nickel. In the Soviet Union the maximum permissible concentration is 1.0 mg/L, (Kirkor, 1951).
Ammonia Nitrogen (N)	Includes nitrogen in the form of NH ₃ and NH ₄ ⁺ . Found in many waters but usually only in trace amounts. Waters from hot springs may contain high concentrations. Found also in waters polluted with sewage and other organic waste.	Usually indicates organic pollution. Toxicity to fish is dependent on the pH of the water; 2.5 mg/L ammonia nitrogen can be harmful in the 7.4 to 8.5 pH range (Ellis, M.M., Et. Al, 1946). Ammonium salts are destructive to concrete made from portland cement.

Table 1 (con't)

Constituent or property	Source or cause	Significance
Organic nitrogen (N)	Amino acids, proteins, and polypeptides. Derived from living organisms and their life processes and from wastes and sewage.	Sometimes indicates pollution. Increases nutrient content of water through decomposition and formation of other nitrogen forms.
Nitrate Nitrogen (N)	Decaying organic matter, sewage, fertilizers, and nitrates in soil.	Concentrations much greater than the local average may suggest pollution. The National Interim Primary Drinking Water Regulations (1975) have established a 10 mg/L maximum contamination level for Nitrate Nitrogen. There is evidence that more than about 10 mg/L of nitrate (N) may cause a type of methemoglobinemia in infants, sometimes fatal. Water of high nitrate content should not be used in baby feeding (Maxcy, K.F., 1950). Nitrate has shown to be helpful in reducing intercrystalline cracking of boiler steel. It encourages growth of algae and other organisms which produce undesirable tastes and odors.
Nitrite Nitrogen (N)	Unstable in the presence of oxygen and is present in only small amounts in most waters. Found in sewage and other organic wastes.	Presence of nitrite is usually an indication of recent organic pollution. Undesirable in waters for some dyeing and brewing processes.
Total Kjeldahl Nitrogen (N)	Includes ammonia nitrogen and organic nitrogen.	See organic and ammonia nitrogen.
Total nitrogen (N)	All forms of nitrogen - inorganic and organic.	See ammonia nitrogen, nitrite, nitrate, and organic.
Hydrogen ion concentration and pH	Hydrogen ions derived from ionization of weak and strong acids. Hydrogen ion concentration is expressed in terms of pH where $\text{pH} = \log (\text{H}^+)$. Acid generating salts and dissolved gases such as SO_2 and CO_2 increases the number of hydrogen ions. Carbonates, bicarbonates, hydroxides, phosphates, silicates, and borates reduce the number of hydrogen ions.	pH ranges between 0 and 14. A pH of 7.0 indicates solution having equal numbers of hydrogen and hydroxide ions. pH higher than 7.0 denotes predominance of hydroxide ions; values lower than 7.0 indicate predominance of hydrogen ions. Corrosiveness of water generally increases with decreasing pH. However excessively alkaline waters may also attack metals. A pH range of 6.5-8.5 is recommended in the National Secondary Drinking Water Regulations (1977).
Strontium (Sr)	Dissolved from rocks and soil. Found in seawater and many brines. Present in waters of local areas where strontium minerals such as celestite and strontianite are present.	Naturally occurring strontium is similar chemically to calcium and only adds to the hardness of water. Radioactive isotopes of strontium, as from nuclear bomb fallout, can be harmful. These isotopes can be detected by radiometric measurements.
Sulfate (SO_4)	Dissolved from rocks and soils containing gypsum, iron sulfides, and other sulfur compounds. Usually present in mine waters and in some industrial waters.	Sulfate in water containing calcium forms hard scale in steam boilers. In large amounts, sulfate in combination with other ions gives bitter taste to water. Some calcium sulfate is considered beneficial in the brewing process. The National Secondary Drinking Water Regulations (1977) recommend that the sulfate content should not exceed 250 mg/L.

Table 1 (con't)

Constituent or property	Source or cause	Significance
Temperature	Solar energy, thermal pollution from waste outfalls and heat from earth's core.	Affects usefulness of water for many purposes. For most uses, a water of uniformly low temperature is desired. Shallow wells show some seasonal fluctuations in water temperature. Ground waters from moderate depths usually are nearly constant in temperature, which is near the mean annual air temperature of the area. In very deep wells, the water temperature generally increases on the average about 1°C with each 100-foot increment of depth. Seasonal fluctuations in temperatures of surface waters are comparatively large, depending on the depth of water, but do not reach the extremes of air temperature.
Turbidity	Colloidal suspensions of sediment, precipitates, and other small particles.	The National Interim Primary Drinking Water Regulations (1975) has established a maximum contaminant level as a monthly average of one nephelometric turbidity unit (NTU) (or 5 turbidity units (NTU) with state approval, provided it does not interfere with disinfection, maintenance of chlorine residual, or bacteriological testing). Interferes with light penetration and limits growth of organisms. Also directly lethal to some life forms.
Zinc (Zn)	Dissolved from some rocks and soils. Found in high concentrations in some mine waters havin a low pH. Zinc is used in many commercial products and industrial wastes may contain large amounts. May be derived from zinc plated or galvanized metal products.	Small amounts are toxic to aquatic plants and animals. Zinc may have such a toxic action on purifying bacterial flora of streams as to present serious sewage pollution problems. The National Secondary Drinking Water Regulations (1977) standards recommend that zinc should not exceed 5,000 ug/L (5 mg/L).

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

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

Each well is identified by means of (1) a 15-digit number that is based on the grid system of latitude and longitude as shown in figure 2, and (2) a local number that is provided for continuity with older reports and for other use as dictated by local needs.

Measurements 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 insure that measurements at each well are of consistent accuracy and reliability.

Water-level measurements in this report are given in feet with reference to either mean sea level (msl) or land-surface datum (lsd). Mean sea level is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that approximates land surface at each well. If known, the altitude of the land-surface datum above mean sea level 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 in wells equipped with recording gages are reported daily or for every fifth day and the end of the month (eom).

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 hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater, however, most measurements are reported to a hundredth of a foot.

HYDROLOGIC CONDITIONS

Rainfall in the Lake Okeechobee inflow area was about normal for the water year, and slightly below normal in the Everglades and lower east coastal area.

Streamflow for Fisheating Creek at Palmdale was about 110 percent of the average annual flow. The mean flow for December 1977 was the highest for that month for the period of record. Flows for January through March, May, and August were also well above average.

Flow of the Kissimmee River at S-65E was about 80 percent of average. Flow was above average January through March and August and below average the rest of the year.

The Miami Canal at NW 36th Street, Miami, and the Tamiami Canal at 40-mile bend to Monroe were 100 and 94 percent respectively of their annual average flows. Streamflow was below normal for all of south Florida.

Lake Okeechobee was below average from October through December and above average the rest of the year. The mean elevation for September was 2.1 feet above average.

In the Lake Okeechobee inflow area, elevations for Lake Butler were below average all year. Mean elevations for October through February and April through June were the lowest for the period of record. At four other representative lakes the mean elevation for the year was within 0.3 feet of the long-term average.

Lake Trafford's elevation fell below normal in May, June, and July and was normal for the remainder of the water year.

PUBLICATIONS OF TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-four manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing 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) is on surface water. The chapter, the unit of publication, 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, Branch of Distribution, 1200 South Eads Street, Arlington, VA 22202, authorized agent of the Superintendent of Documents, Government Printing Office. Prices are effective October 1978 but are subject to change.

NOTE: When ordering 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. \$1.60.
- 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. \$0.85.
- 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. \$1.90.
- 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. \$1.75.
- 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. \$1.00.
- 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. \$0.35.
- 3-A3. MEASUREMENT OF PEAK DISCHARGE AT CULVERTS BY INDIRECT METHODS, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages. \$0.40.
- 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. \$1.00.
- 3-A5. MEASUREMENT OF PEAK DISCHARGE AT DAMS BY INDIRECT METHODS, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages. \$0.35.
- 3-A6. GENERAL PROCEDURE TO GAGING STREAMS, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages. \$1.00.
- 3-A7. STAGE MEASUREMENTS AT GAGING STATIONS, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages. \$1.40.
- 3-A8. DISCHARGE MEASUREMENTS AT GAGING STATIONS, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages. \$1.25.
- 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. \$1.20.
- 3-A12. FLUOROMETRIC PROCEDURES FOR DYE TRACING, by J. F. Wilson Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages. \$0.35. Not currently available.
- 3-B1. AQUIFER-TEST DESIGN, OBSERVATION, AND DATA ANALYSIS, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages. \$0.70.
- 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. \$2.50.
- 3-C1. FLUVIAL SEDIMENT CONCEPTS, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages. \$2.50.
- 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. \$2.50.
- 3-C3. COMPUTATION OF FLUVIAL-SEDIMENT DISCHARGE, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages. \$2.10.
- 4-A1. SOME STATISTICAL TOOLS IN HYDROLOGY, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages. \$1.60.

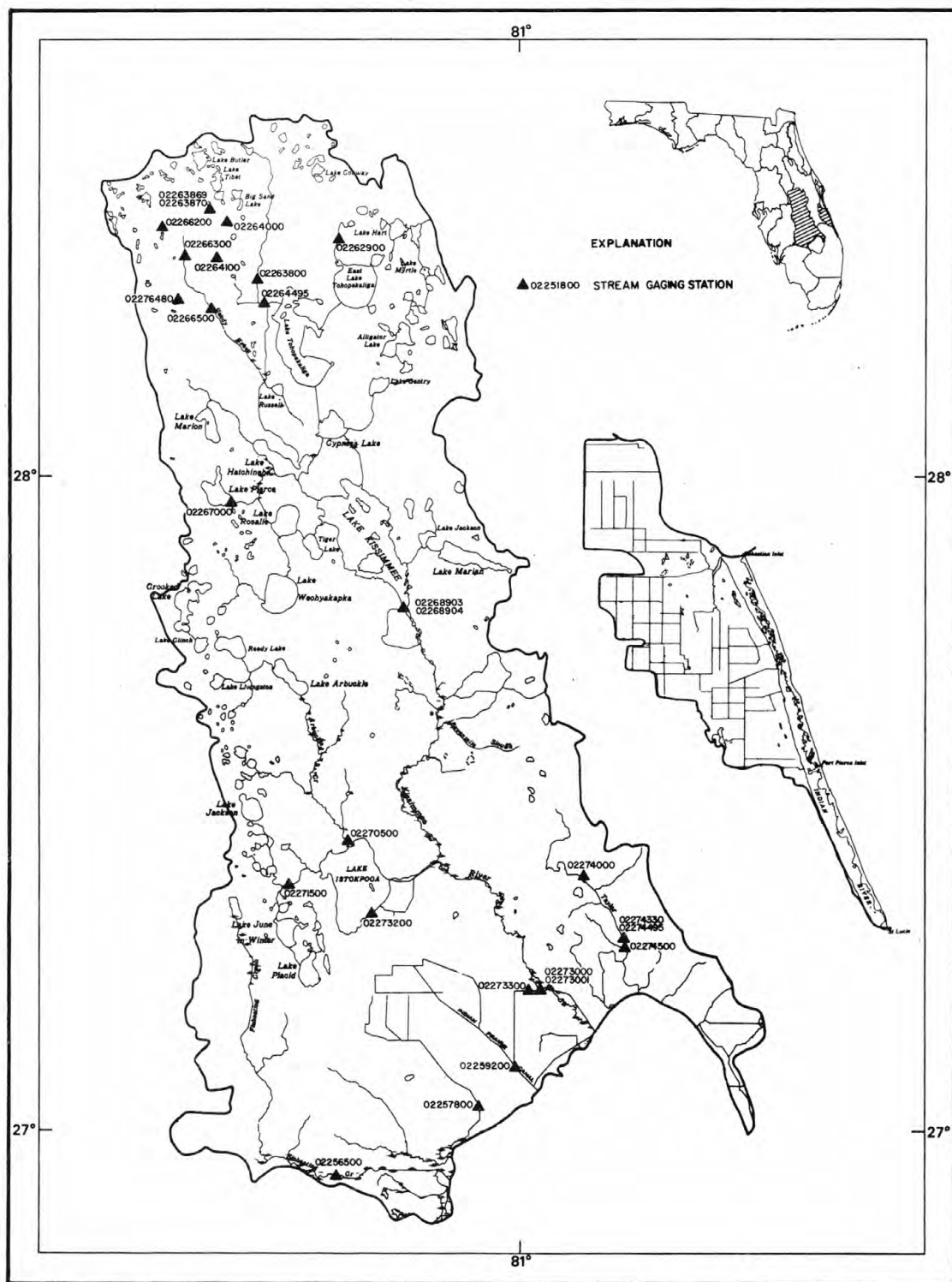
- 4-A2. FREQUENCY CURVES, By H. C. Riggs: USGS-TWRI Book 4, Chapter A2. 1968. 15 pages. \$1.20.
- 4-B1. LOW-FLOW INVESTIGATIONS, by H. C. Riggs: USGS-TWRI Book 4, Chapter B1. 1972. 18 pages. \$0.65.
- 4-B2. STORAGE ANALYSES FOR WATER SUPPLY, by H. C. Riggs and C. H. Hardison: USGS-TWRI Book 4, Chapter B2. 1973. 20 pages. \$0.75.
- 4-B3. REGIONAL ANALYSES OF STREAMFLOW CHARACTERISTICS, by H. C. Riggs: USGS-TWRI Book 4, Chapter B3. 1973. 15 pages. \$0.65.
- 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. \$1.10.
- 5-A1. METHODS FOR COLLECTION AND ANALYSIS OF WATER SAMPLES FOR DISSOLVED MINERALS AND GASES, by Eugene Brown, M. W. Skougstad, and M. J. Fishman: USGS-TWRI Book 5, Chapter A1. 1970. 160 pages. \$2.40.
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STAGE AND DISCHARGE OF STREAMS



SOUTHERN FLORIDA

FISHEATING CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTHWEST

02256500 FISHEATING CREEK AT PALMDALE, FL

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 bridge on U.S. Highway 27, 1.0 mi (1.6 km) south of Palmdale, and 16 mi (26 km) upstream from Lake Okeechobee.

DRAINAGE AREA.--311 mi² (805 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 27.19 ft (8.288 m) 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 (137 m) upstream at same datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--47 years, 257 ft³/s (7.278 m³/s), 11.22 in/yr (285 mm/yr), 186,200 acre-ft/yr (230 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 31,400 ft³/s (889 m³/s) Oct. 3, 1951, gage height, 12.44 ft (3.792 m), from rating curve extended above 21,000 ft³/s (595 m³/s); no flow at times in most years; minimum gage height observed, -0.61 ft (-0.186 m) June 13, 1950.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft³/s (42 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)	Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Dec. 11	0800	1,650 46.7	5.83 1.777	Aug. 16	0900	1,780 50.4	5.90 1.798
Mar. 13	0300	1,560 44.2	5.78 1.762	Aug. 20	0900	1,610 45.6	5.81 1.771
Aug. 2	0300	1,590 45.0	5.80 1.768	Aug. 25	1000	*1,910 54.1	*5.96 1.817

Minimum discharge, 3.0 ft³/s (0.085 m³/s) Apr. 23, May 3,4, gage height, 1.11 ft (0.338 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	561	17	83	166	77	166	26	3.1	5.5	123	1440	390
2	431	18	79	152	74	137	21	3.1	4.8	108	1580	283
3	360	18	72	138	72	131	18	3.1	4.4	96	1520	268
4	349	20	66	124	69	169	16	3.1	3.9	93	1470	417
5	312	42	67	113	65	160	13	3.3	3.7	90	1440	389
6	299	75	183	107	60	149	11	4.8	3.4	89	1430	259
7	191	85	462	101	52	143	9.9	15	3.4	84	1380	202
8	155	82	538	96	45	160	8.8	17	3.8	92	1310	206
9	121	78	737	99	48	311	7.6	24	6.4	111	1230	211
10	104	83	1400	99	49	602	6.8	45	12	124	1160	239
11	89	89	1630	93	46	844	6.1	68	21	158	1190	608
12	75	88	1450	83	42	1260	5.5	88	29	198	1240	711
13	62	81	1310	81	39	1520	4.9	99	38	213	1070	545
14	49	72	1160	97	38	1290	4.5	93	48	200	976	430
15	41	65	968	104	41	1040	4.1	74	63	187	1170	547
16	34	57	778	99	47	833	3.7	51	78	176	1740	648
17	31	51	723	93	67	613	3.3	33	92	153	1530	527
18	27	45	648	88	83	444	4.1	24	101	141	1230	421
19	25	40	548	85	94	324	5.9	28	106	147	1090	332
20	22	36	518	93	97	234	5.3	34	108	117	1550	272
21	20	31	538	95	102	189	4.2	36	106	102	1330	212
22	17	27	508	91	132	157	3.6	35	101	98	1060	173
23	15	31	453	87	365	127	3.2	36	92	110	1100	143
24	13	120	498	88	498	107	4.2	32	81	113	1500	119
25	12	109	518	94	436	93	4.6	25	76	117	1840	107
26	11	87	462	101	351	79	4.1	19	83	166	1580	101
27	9.9	73	351	101	265	66	3.7	14	92	270	1270	92
28	9.0	61	259	96	201	55	3.6	12	104	484	1040	90
29	8.4	54	207	89	---	45	3.5	10	128	759	863	95
30	9.7	75	185	84	---	38	3.3	8.0	138	908	699	117
31	13	---	174	80	---	31	---	6.5	---	1120	527	---
TOTAL	3476.0	1810	17573	3117	3555	11517	223.5	947.0	1736.3	6947	39555	9154
MEAN	112	60.3	567	101	127	372	7.45	30.5	57.9	224	1276	305
MAX	561	120	1630	166	498	1520	26	99	138	1120	1840	711
MIN	8.4	17	66	80	38	31	3.2	3.1	3.4	84	527	90
CFSM	.36	.19	1.82	.33	.41	1.20	.02	.10	.19	.72	4.10	.98
IN.	.42	.22	2.10	.37	.43	1.38	.03	.11	.21	.83	4.73	1.09
AC-FT	6890	3590	34860	6180	7050	22840	443	1880	3440	13780	78460	18160

CAL YR 1977	TOTAL	47324.79	MEAN 130	MAX 1630	MIN .00	CFSM .42	IN 5.66	AC-FT 93870
WTR YR 1978	TOTAL	99610.80	MEAN 273	MAX 1840	MIN 3.1	CFSM .88	IN 11.91	AC-FT 197600

FISHEATING CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTHWEST

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

LOCATION.--Lat 27°02'00", long 81°04'15", in NE¼ sec.1, T.40 S., R.32 E., Glades County, Hydrologic Unit 03090103, near left bank 220 ft (67 m) upstream from control structure 71, 0.1 mi (0.2 km) west of State Highway 721, 2.3 mi (3.7 km) upstream from bridge on State Highway 78, and 5.2 mi (8.4 km) northeast of Lakeport.

DRAINAGE AREA.--Indeterminate.

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

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

REMARKS.--Records poor. Flow regulated by operation of structure 71, by storage releases upstream at structures 68 and 70 and several small diversions for irrigation of land both upstream and downstream of gage. Flow may be diverted to Indian Prairie Canal by the combined operation of structures 70 and 75 upstream. Discharge computed from continuous velocity record obtained from recording deflection meter.

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

AVERAGE DISCHARGE.--16 years, 196 ft³/s (5.551 m³/s), 142,000 acre-ft/yr (175 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,670 ft³/s (132 m³/s) Mar. 27, 1970; maximum gage height, 25.90 ft (7.894 m) June 8, 1968; no flow for many days each year; minimum gage height, 12.97 ft (3.953 m) Feb. 9, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,900 ft³/s (82.1 m³/s) Aug. 1; maximum gage height, 20.68 ft (6.303 m) Jan. 20; no flow for many days; minimum gage height, 15.50 ft (4.724 m) July 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	770	54	.00	427	375	.00	.00	154	2900	241
2	.00	.00	658	136	.00	759	435	.00	.00	238	2650	.00
3	.00	.00	512	79	.00	389	250	.00	.00	331	2830	166
4	.00	.00	288	78	360	660	.00	.00	225	269	2320	85
5	178	.00	336	162	.00	703	.00	.00	109	773	1650	438
6	.00	.00	603	.00	.00	758	.00	.00	413	72	1520	569
7	.00	.00	787	128	23	926	.00	397	573	790	1570	715
8	.00	.00	423	.00	150	604	.00	541	463	656	1220	166
9	.00	.00	490	151	229	1780	.00	457	1160	524	1060	348
10	.00	.00	662	106	610	2300	.00	478	1440	260	499	318
11	.00	.00	403	.00	577	2200	.00	601	1080	375	905	1610
12	.00	.00	510	.00	579	1700	.00	414	744	.00	933	862
13	.00	.00	282	90	331	1480	.00	772	1080	89	1000	676
14	.00	.00	196	57	.00	1250	.00	417	776	105	935	391
15	.00	.00	323	167	130	1240	.00	559	250	84	1190	653
16	.00	.00	249	140	20	1260	.00	521	293	409	903	900
17	.00	.00	337	.00	136	1360	.00	215	292	288	321	512
18	.00	.00	300	.00	184	767	.00	534	72	629	101	406
19	.00	.00	316	61	215	1220	.00	529	176	1070	730	160
20	.00	.00	187	154	144	791	.00	627	.00	1130	531	429
21	.00	.00	170	151	880	397	.00	581	.00	945	179	437
22	.00	.00	187	.00	1380	254	.00	734	.00	593	654	.00
23	.00	.00	93	198	417	421	.00	450	171	431	1190	302
24	.00	.00	429	79	379	444	.00	337	.00	789	578	633
25	.00	.00	14	56	367	366	.00	478	.00	542	345	359
26	.00	.00	344	354	295	430	.00	.00	315	557	399	387
27	.00	.00	197	366	285	485	.00	.00	102	673	372	257
28	.00	.00	86	.00	.00	648	.00	.00	512	1270	.00	50
29	.00	186	278	.00	---	458	.00	262	.00	1330	380	325
30	.00	1590	96	.00	---	697	.00	.00	65	1440	.00	.00
31	.00	---	96	.00	---	533	---	276	---	2030	142	---
TOTAL	178.00	1776.00	10622	2767.00	7691.00	27707	1060.00	10180.00	10311.00	18846.00	30007.00	12395.00
MEAN	5.74	59.2	343	89.3	275	894	35.3	328	344	608	968	413
MAX	178	1590	787	366	1380	2300	435	772	1440	2030	2900	1610
MIN	.00	.00	14	.00	.00	254	.00	.00	.00	.00	.00	.00
AC-FT	353	3520	21070	5490	15260	54960	2100	20190	20450	37380	59520	24590
CAL YR 1977	TOTAL	41788.10	MEAN	114	MAX	2100	MIN	.00	AC-FT	82890		
WTR YR 1978	TOTAL	133540.00	MEAN	366	MAX	2900	MIN	.00	AC-FT	264900		

SOUTHERN FLORIDA

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FISHEATING CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTHWEST

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

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.94	18.45	19.75	19.90	19.75	19.75	19.58	18.63	19.43	19.88	19.54	19.27
2	18.73	18.57	19.80	19.82	19.98	19.78	19.77	18.78	19.30	19.71	19.49	18.80
3	18.51	18.33	19.81	19.65	20.00	19.57	19.51	18.44	19.52	19.78	19.52	19.21
4	18.41	17.96	19.77	19.92	19.79	19.78	18.87	17.83	19.77	19.83	19.73	19.23
5	19.16	18.17	19.80	19.63	19.36	19.69	18.36	17.91	19.83	19.42	19.48	19.56
6	19.01	18.51	19.77	19.89	19.23	19.76	17.73	18.35	19.70	16.92	19.42	19.38
7	18.74	18.83	19.83	19.83	19.51	19.53	17.38	19.75	19.58	19.51	19.60	19.61
8	18.18	19.35	19.78	19.60	19.45	19.55	17.56	19.50	19.51	19.57	19.54	19.32
9	17.94	19.48	19.80	19.78	19.57	19.86	17.78	19.63	19.58	19.55	19.56	19.59
10	17.94	19.25	19.76	19.74	19.75	19.75	17.99	19.66	19.66	19.42	19.52	19.55
11	17.87	19.15	19.81	19.82	19.88	19.74	18.70	19.55	19.65	19.33	19.59	19.53
12	17.77	19.12	19.82	20.02	19.90	19.75	19.32	19.58	19.70	19.27	19.54	19.49
13	18.01	19.16	19.83	19.61	19.66	19.82	19.56	19.76	19.58	19.49	19.56	19.57
14	18.36	19.12	19.80	19.93	19.54	19.81	19.66	19.76	19.69	19.57	19.57	19.49
15	17.81	18.87	19.83	19.63	19.78	19.74	19.86	19.78	19.45	19.60	19.63	19.57
16	17.67	18.73	19.84	19.62	19.79	19.74	20.07	19.59	19.57	19.50	19.50	19.54
17	17.62	18.49	19.81	19.68	19.60	19.89	20.13	19.68	19.79	19.53	19.47	19.54
18	17.54	17.82	19.81	19.90	19.43	19.78	19.81	19.67	19.73	19.51	19.63	19.55
19	17.51	17.62	19.82	19.90	19.40	19.87	19.55	19.68	19.56	19.70	19.48	19.46
20	17.40	17.56	19.87	20.02	19.57	19.80	19.33	19.59	19.37	19.58	19.56	19.58
21	17.12	17.46	19.88	19.70	19.55	19.69	18.72	19.73	19.19	19.58	19.40	19.47
22	17.06	17.45	19.79	19.81	19.69	19.63	18.04	19.81	19.04	19.57	19.55	19.55
23	16.99	17.78	19.90	19.86	19.63	19.62	17.71	19.79	19.48	19.39	19.51	19.42
24	17.01	18.22	19.89	19.78	19.74	19.71	18.25	19.71	19.47	19.52	19.62	19.59
25	17.34	18.77	19.72	19.87	19.76	19.55	18.77	19.42	19.45	19.27	19.50	19.54
26	17.63	19.26	19.79	19.64	19.70	19.63	18.58	18.86	19.72	19.33	19.19	19.51
27	17.86	19.51	19.81	19.44	19.79	19.71	18.37	18.71	19.81	19.35	19.65	19.56
28	17.69	19.73	19.85	19.31	19.71	19.72	17.84	18.77	19.83	19.65	19.49	19.66
29	17.57	19.87	19.82	19.37	---	19.81	18.00	19.55	19.70	19.54	19.53	19.58
30	17.77	19.74	19.87	19.43	---	19.69	18.32	19.35	19.81	19.62	19.29	19.63
31	18.11	---	19.75	19.49	---	19.60	---	19.67	---	19.55	19.46	---
MEAN	17.91	18.68	19.81	19.73	19.66	19.72	18.77	19.31	19.58	19.45	19.52	19.48
MAX	19.16	19.87	19.90	20.02	20.00	19.89	20.13	19.81	19.83	19.88	19.73	19.66
MIN	16.99	17.45	19.72	19.31	19.23	19.53	17.38	17.83	19.04	16.92	19.19	18.80

CAL YR 1977 MEAN 19.06 MAX 21.14 MIN 14.01
WTR YR 1978 MEAN 19.30 MAX 20.13 MIN 16.92

SOUTHERN FLORIDA

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 (70 m) upstream from control structure 72, 2.6 mi (4.2 km) upstream from bridge on State Highway 78, and 15 mi (24 km) southwest of Okeechobee.

DRAINAGE AREA.--Indeterminate.

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

GAGE.--Water-stage and deflection-meter recorder. Datum of gage is 9.0 ft (2.74 m) National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark).

REMARKS.--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. Discharge computed from continuous velocity record obtained from recording velocity meter.

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

AVERAGE DISCHARGE.--16 years, 47.7 ft³/s (1.351 m³/s), 34,560 acre-ft/yr (42.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,130 ft³/s (60.3 m³/s) Oct. 3, 1969; maximum gage height, 14.21 ft (4.331 m) June 19, 1972; no flow for many days each year; minimum gage height, 6.55 ft (1.996 m) Oct. 11, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,530 ft³/s (43.3 m³/s) Aug. 4; maximum gage height, 13.00 ft (3.962 m) Aug. 21; no flow for many days; minimum gage height, 7.78 ft (2.371 m) May 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	311	.00	.00	.00	.00	.00	.00	165	590	.00
2	.00	.00	350	.00	.00	.00	.00	.00	.00	167	924	.00
3	.00	.00	340	229	.00	.00	.00	.00	.00	263	1250	135
4	.00	.00	244	.00	.00	.00	.00	.00	.00	.00	1530	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	153	1160	.00
6	.00	.00	491	.00	.00	.00	.00	.00	.00	244	1290	85
7	.00	.00	470	.00	.00	.00	.00	.00	.00	290	1190	.00
8	.00	.00	383	.00	.00	187	.00	.00	.00	.00	1000	.00
9	.00	.00	196	402	.00	249	.00	.00	.00	.00	866	201
10	.00	.00	381	.00	.00	330	.00	.00	.00	303	.00	137
11	.00	.00	225	.00	.00	530	.00	.00	.00	.00	334	228
12	.00	.00	214	.00	.00	345	.00	.00	.00	180	.00	368
13	.00	.00	285	.00	.00	514	.00	.00	.00	.00	193	206
14	.00	.00	.00	233	.00	327	.00	.00	.00	249	307	195
15	.00	.00	346	.00	.00	307	.00	.00	.00	195	.00	549
16	.00	.00	320	.00	.00	398	.00	.00	.00	175	320	302
17	.00	.00	178	.00	.00	612	.00	.00	.00	199	96	439
18	.00	.00	5.6	.00	.00	452	.00	.00	.00	418	267	286
19	.00	.00	492	170	.00	217	.00	.00	.00	585	.00	88
20	.00	.00	104	.00	.00	287	.00	.00	.00	872	.00	357
21	.00	.00	211	.00	.00	.00	.00	.00	.00	529	369	18
22	.00	.00	.00	.00	111	.00	.00	.00	.00	191	346	195
23	.00	.00	337	352	184	372	.00	.00	.00	338	252	276
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	185	6.5	263
25	.00	.00	226	.00	.00	.00	.00	.00	261	330	201	87
26	.00	.00	.00	.00	.00	.00	.00	.00	.80	.00	320	193
27	.00	.00	186	.00	.00	.00	.00	.00	206	563	230	26
28	.00	.00	.00	.00	.00	.00	.00	.00	265	623	.00	239
29	.00	.00	.00	.00	---	.00	.00	.00	240	698	.00	.00
30	.00	.00	317	.00	---	.00	.00	.00	.00	552	203	129
31	.00	---	.00	.00	---	.00	---	120	---	620	.00	---
TOTAL	.00	.00	6612.60	1386.00	295.00	5127.00	.00	120.00	972.80	9087.00	13244.50	5002.00
MEAN	.000	.000	213	44.7	10.5	165	.000	3.87	32.4	293	427	167
MAX	.00	.00	492	402	184	612	.00	120	265	872	1530	549
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	13120	2750	585	10170	.00	238	1930	18020	26270	9920

CAL YR 1977 TOTAL 10713.60 MEAN 29.4 MAX 492 MIN .00 AC-FT 21250
WTR YR 1978 TOTAL 41846.90 MEAN 115 MAX 1530 MIN .00 AC-FT 83000

FISHEATING CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTHWEST

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

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.76	9.16	11.64	12.01	12.02	11.70	10.47	10.08	8.64	11.76	11.59	10.69
2	11.95	8.90	11.56	12.15	11.96	11.92	10.39	9.94	8.63	11.88	11.43	10.97
3	11.98	8.79	11.48	11.15	11.81	11.98	10.29	9.61	9.42	11.91	11.74	9.92
4	11.59	8.90	11.52	10.74	11.96	11.85	10.08	9.78	10.06	11.91	11.51	10.29
5	11.36	9.32	11.43	11.42	12.01	11.67	9.73	9.95	10.44	11.71	11.49	10.75
6	11.42	9.59	11.61	11.82	12.01	11.71	9.08	9.94	10.95	11.73	11.54	10.76
7	11.46	9.77	11.61	11.97	11.98	11.93	8.57	10.23	11.27	11.95	11.58	11.06
8	11.37	10.05	11.48	12.05	11.91	11.05	8.63	10.38	11.26	11.72	11.49	11.66
9	11.30	10.18	11.65	11.25	11.83	11.19	8.84	10.57	11.60	12.16	11.53	11.43
10	11.18	9.93	11.37	11.11	11.70	11.31	9.13	10.73	11.79	11.74	11.30	11.32
11	10.88	10.19	11.44	11.62	11.59	11.34	9.45	10.80	11.73	11.94	11.74	11.42
12	10.34	10.28	11.44	11.87	11.51	11.50	9.72	10.79	11.69	11.70	11.65	11.48
13	9.93	10.32	11.53	12.05	11.44	11.53	9.82	10.89	11.91	12.03	11.53	11.44
14	10.02	10.28	11.76	11.29	11.40	11.69	10.26	10.86	12.00	11.76	11.82	11.43
15	9.78	10.13	11.09	11.44	11.34	11.72	11.04	10.80	11.95	11.75	11.55	11.20
16	9.70	9.93	11.53	11.89	11.31	11.51	11.34	10.72	11.91	11.95	11.79	11.41
17	9.56	9.83	11.43	12.03	11.32	11.42	11.42	10.82	11.88	11.68	11.72	11.35
18	9.35	9.53	11.49	12.14	11.32	11.61	11.22	11.10	11.62	11.81	11.64	11.35
19	8.89	9.22	11.22	11.43	11.38	11.62	11.24	10.95	11.62	11.84	12.51	11.35
20	8.66	9.26	11.91	11.54	11.37	11.70	11.16	10.92	11.12	11.87	12.95	11.23
21	8.69	9.31	10.95	11.98	11.41	11.82	11.06	10.93	10.42	11.74	12.16	11.47
22	9.04	9.16	11.89	12.14	11.61	12.08	11.01	10.91	10.33	11.83	11.72	11.33
23	9.22	9.32	11.40	11.31	11.09	11.47	10.99	10.83	10.62	11.87	11.74	11.20
24	9.33	9.63	11.78	11.19	11.93	11.21	11.07	11.05	11.54	11.77	11.83	11.47
25	9.50	9.93	11.36	11.75	11.99	11.37	11.00	10.79	11.76	11.78	12.03	11.37
26	9.54	10.26	11.53	12.01	11.99	11.74	10.66	9.94	12.03	12.01	11.51	11.50
27	9.58	10.40	11.39	12.00	11.92	11.84	10.25	9.57	11.67	11.75	11.64	11.54
28	9.46	10.41	11.52	12.02	11.70	11.61	9.97	9.45	11.72	11.66	11.63	11.44
29	9.14	10.65	12.05	12.02	---	11.29	9.90	9.37	11.87	11.74	12.03	11.47
30	9.10	11.72	11.00	11.99	---	11.22	10.02	9.48	11.95	11.73	11.40	11.42
31	9.19	---	11.56	11.99	---	10.70	---	8.91	---	11.69	10.24	---
MEAN	10.14	9.81	11.50	11.72	11.67	11.56	10.26	10.36	11.19	11.82	11.68	11.22
MAX	11.98	11.72	12.05	12.15	12.02	12.08	11.42	11.10	12.03	12.16	12.95	11.66
MIN	8.66	8.79	10.95	10.74	11.09	10.70	8.57	8.91	8.63	11.66	10.24	9.92
CAL YR 1977	MEAN 10.64		MAX 12.18	MIN 8.66								
WTR YR 1978	MEAN 11.08		MAX 12.95	MIN 8.57								

SOUTHERN FLORIDA

KISSIMMEE RIVER BASIN

02262900 BOGGY CREEK NEAR TAFT, FL

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 (135 m) downstream from Boggy Creek Swamp, 2.0 mi (3.2 km) upstream from bridge on State Highway 530, 3.5 mi (5.6 km) upstream from mouth, and 5.5 mi (8.8 km) southeast of Taft.

DRAINAGE AREA.--83.6 mi² (216.5 km²).

PERIOD OF RECORD.--September 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 56.08 ft (17.093 m) National Geodetic Vertical Datum of 1929 (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.

REMARKS.--Records good. Some diversion to ground water through drainage wells in lakes upstream from station.

AVERAGE DISCHARGE.--19 years, 47.7 ft³/s (1.351 m³/s), 7.75 in/yr (197 mm/yr), 34,560 acre-ft/yr (42.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,680 ft³/s (104 m³/s) Mar. 18, 1960, gage height, 13.64 ft (4.157 m), from floodmarks; minimum, 0.10 ft³/s (0.003 m³/s) June 5-11, 1961, May 29, 30, 1962, May 28, 29, 1965; minimum gage height, 1.85 ft (0.564 m) May 5, 6, 7, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 394 ft³/s (11.2 m³/s) July 29, gage height, 7.71 ft (2.350 m); minimum, 0.36 ft³/s (0.010 m³/s) May 31, gage height, 2.22 ft (0.677 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	6.7	15	20	19	57	16	2.1	.58	14	199	29
2	37	6.6	14	20	22	53	15	2.1	1.6	12	175	25
3	30	8.4	13	19	28	80	14	2.1	32	10	157	22
4	24	13	11	18	29	143	13	9.0	41	8.8	135	20
5	20	17	11	17	27	132	12	23	28	10	120	19
6	17	18	14	17	24	105	11	34	19	12	131	19
7	15	15	14	16	21	87	9.7	61	24	12	143	19
8	13	13	16	16	21	75	9.0	42	42	23	124	18
9	13	11	21	19	36	78	8.4	25	34	41	103	17
10	12	10	25	23	49	90	7.9	19	25	29	85	24
11	12	8.7	25	21	46	94	7.2	14	28	24	97	68
12	11	8.0	21	19	40	84	6.7	11	26	36	180	64
13	9.8	7.5	18	32	36	73	6.5	8.8	20	42	241	49
14	8.7	7.3	19	37	32	63	8.3	7.5	16	33	207	36
15	8.3	7.0	19	30	29	57	8.6	6.1	13	26	178	30
16	8.0	6.8	31	24	56	51	7.7	5.2	12	23	152	27
17	7.5	6.9	39	24	148	45	7.0	4.7	10	24	133	21
18	7.1	6.6	40	27	204	40	6.7	4.4	8.8	27	116	18
19	6.9	6.2	34	33	260	37	6.5	4.5	7.9	35	110	17
20	6.7	6.1	29	56	227	35	6.3	4.9	7.0	81	102	14
21	6.6	5.8	30	67	194	33	5.4	4.4	9.2	152	87	13
22	6.8	5.7	32	58	160	31	4.7	3.8	14	118	76	12
23	7.9	6.0	31	48	129	29	4.4	3.3	27	84	68	11
24	11	12	28	41	107	27	4.0	2.8	73	65	58	12
25	14	13	27	36	90	26	3.7	2.3	97	80	50	11
26	13	12	27	33	77	24	3.3	2.0	71	151	43	11
27	10	10	25	29	67	21	2.8	1.6	46	169	38	10
28	8.5	9.7	23	26	60	19	2.5	1.3	33	266	34	10
29	7.9	11	21	23	---	18	2.5	.86	24	358	30	9.0
30	7.5	16	20	21	---	18	2.1	.71	18	304	27	8.8
31	7.1	---	20	19	---	17	---	.47	---	239	28	---
TOTAL	414.3	293.0	713	889	2238	1742	222.9	313.94	808.08	2508.8	3427	663.8
MEAN	13.4	9.77	23.0	28.7	79.9	56.2	7.43	10.1	26.9	80.9	111	22.1
MAX	47	18	40	67	260	143	16	61	97	356	241	68
MIN	6.6	5.7	11	16	19	17	2.1	.47	.58	8.8	27	8.8
CFSM	.16	.12	.26	.34	.96	.67	.09	.12	.32	.97	1.33	.26
IN.	.18	.13	.32	.40	1.00	.78	.10	.14	.36	1.12	1.52	.30
AC-FT	822	581	1410	1760	4440	3460	442	623	1600	4980	6800	1320
CAL YR 1977	TOTAL	5641.23	MEAN 15.5	MAX 60	MIN .36	CFSM .19	IN 2.51	AC-FT 11190				
WTR YR 1978	TOTAL	14233.82	MEAN 39.0	MAX 358	MIN .47	CFSM .47	IN 6.33	AC-FT 28230				

SOUTHERN FLORIDA

29

KISSIMMEE RIVER BASIN

02263800 SHINGLE CREEK AT AIRPORT, NEAR KISSIMMEE, FL

LOCATION.--Lat 28°18'14", long 81°27'04", 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 (1.6 km) northwest of Kissimmee Airport, 3.0 mi (4.8 km) west of Kissimmee, and 5.6 mi (9.0 km) upstream from mouth.

DRAINAGE AREA.--89.2 mi² (231.0 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 60.66 ft (18.489 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--20 years, 64.5 ft³/s (1.827 m³/s), 9.82 in/yr (249 mm/yr), 46,730 acre-ft/yr (57.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,320 ft³/s (94.0 m³/s) Mar. 18, 1960, gage height, 11.00 ft (3.353 m); no flow for many days in some years; minimum gage height, 2.21 ft (0.674 m) June 9, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, not determined, maximum daily discharge, 290 ft³/s (8.21 m³/s) Feb. 18; minimum, 18 ft³/s (0.51 m³/s) all or part of each day Apr. 27 to May 3, May 31 to June 2; minimum gage height, 4.28 ft (1.305 m) May 31 to June 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	34	44	61	50	130	32	18	19	41	259	42
2	85	32	44	60	51	118	30	18	23	36	245	41
3	74	40	44	59	55	139	29	20	37	36	230	40
4	64	50	45	56	55	165	28	28	45	36	213	38
5	56	68	47	54	55	170	26	34	43	34	203	37
6	50	57	53	53	55	173	24	37	42	33	191	35
7	47	49	49	52	55	176	24	58	52	36	172	34
8	43	44	48	52	52	169	23	71	64	40	162	32
9	40	42	58	56	73	169	23	69	73	47	152	30
10	38	40	68	56	71	169	22	64	80	54	138	29
11	37	37	66	56	65	162	21	58	93	61	134	30
12	36	35	65	56	58	162	20	52	97	70	167	41
13	36	33	64	59	54	165	20	47	91	71	191	43
14	34	31	64	59	57	160	28	40	80	75	270	38
15	34	30	64	55	58	148	26	36	69	72	274	34
16	34	29	73	53	110	133	24	31	62	82	245	31
17	34	27	75	54	200	114	23	29	59	112	218	30
18	33	27	73	57	290	99	22	27	53	133	197	30
19	33	27	75	61	280	86	22	27	47	147	188	29
20	33	27	83	77	260	79	23	28	44	182	173	29
21	32	27	93	74	250	70	21	27	90	179	153	27
22	32	26	99	75	240	66	21	27	93	177	136	26
23	35	29	93	80	220	60	21	26	91	174	120	32
24	40	32	87	83	210	53	20	25	80	170	103	33
25	56	50	82	82	190	48	20	24	70	160	90	28
26	57	43	81	78	180	44	19	23	65	151	75	28
27	45	39	75	70	150	42	18	23	61	142	64	27
28	40	39	69	64	143	40	18	22	58	156	58	27
29	36	39	65	59	---	40	18	21	54	206	52	27
30	36	44	62	55	---	38	19	20	47	258	47	27
31	37	---	61	52	---	35	---	19	---	261	45	---
TOTAL	1381	1127	2069	1918	3587	3422	685	1049	1882	3432	4965	975
MEAN	44.5	37.6	66.7	61.9	128	110	22.8	33.8	62.7	111	160	32.5
MAX	94	68	99	83	290	176	32	71	97	261	274	43
MIN	32	26	44	52	50	35	18	18	19	33	45	26
CFSM	.50	.42	.75	.69	1.44	1.23	.26	.38	.70	1.24	1.79	.36
IN.	.58	.47	.86	.80	1.50	1.43	.29	.44	.78	1.43	2.07	.41
AC-FT	2740	2240	4100	3800	7110	6790	1360	2080	3730	6810	9850	1930
CAL YR 1977	TOTAL	17018	MEAN 46.6	MAX 151	MIN 10	CFSM .52	IN 7.10	AC-FT 33760				
WTR YR 1978	TOTAL	26492	MEAN 72.6	MAX 290	MIN 18	CFSM .81	IN 11.05	AC-FT 52550				

SOUTHERN FLORIDA

KISSIMMEE RIVER BASIN

02263869 SOUTH LAKE OUTLET AT S-15 NEAR VINELAND, FL

LOCATION.--Lat 28°24'45", long 81°32'17" in SW $\frac{1}{4}$ sec.8, T.24 S., R.28 E., Orange County, Hydrologic Unit 03090101, on right bank at upstream wingwall of control structure 15, 300 ft (90 m) south of natural lake shoreline, 1,600 ft (490 m) west of State Road 535, and 2.4 mi (3.9 km) northwest of Vineland.

DRAINAGE AREA.--4 mi² (10 km²), approximately.

PERIOD OF RECORD.--June 1972 to current year.

GAGE.--Water-stage recorder and gate-opening recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Walt Disney World bench mark). Auxiliary water-stage recorder at downstream side of control structure since May 1970.

REMARKS.--Records good. Flow from South Lake into South Lake outlet regulated by automatic gates in control structure 15. Gage heights are published as elevations for South Lake (station 02263868) in the section of this report entitled "Lake Elevations".

AVERAGE DISCHARGE.--6 years, 0.36 ft³/s (0.010 m³/s), 261 acre-ft (322,000 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 48 ft³/s (1.36 m³/s) Sept. 10, 1974; maximum gage height, 94.45 ft (28.788 m) Sept. 9, 1974; no flow for many days each year; minimum gage height, 91.18 ft (27.792 m) July 14,15,16, 1977.

EXTREMES FOR CURRENT YEAR.--No flow for entire year, maximum gage height, 93.19 ft (28.404 m) Aug. 20; minimum gage height, 91.63 ft (27.929 m) Nov. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
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	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

CAL YR 1977 TOTAL 0.00 MEAN .000 MAX .00 MIN .00 AC-FT .00
WTR YR 1978 TOTAL 0.00 MEAN .000 MAX .00 MIN .00 AC-FT .00

NOTE.--No gage-height record Jan. 8 to Feb. 23, Aug. 14 to Sept. 30.

SOUTHERN FLORIDA

31

KISSIMMEE RIVER BASIN

02263870 SOUTH LAKE OUTLET BELOW S-15 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 downstream wingwall of control structure 15, 1,600 ft (490 m) west of State Road 535, and 2.4 mi (3.9 km) northwest of Vineland.

DRAINAGE AREA.--4 mi² (10 km²), approximately.

PERIOD OF RECORD.--May 1970 to current year.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily gage height, 89.97 ft (27.423 m) Aug. 16, 1974; minimum daily, 84.90 ft (25.878 m) Mar. 25, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily gage height 89.57 ft (27.301 m) Feb. 18; minimum daily, 88.81 ft (27.069 m) June 29.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89.16	89.12	88.90	89.23	89.22	89.26	89.24	89.15	89.12	89.07	89.30	89.22
2	89.15	89.11	88.91	89.23	89.25	89.25	89.23	89.16	89.17	89.36	89.30	89.22
3	89.13	89.11	88.91	89.26	89.25	89.30	89.22	89.17	89.26	89.32	89.28	89.21
4	89.14	89.14	88.90	89.27	89.23	89.30	89.22	89.24	89.28	89.31	89.28	89.21
5	89.15	89.15	88.91	89.25	89.23	89.26	89.22	89.24	89.26	89.31	89.28	89.21
6	89.12	89.15	89.00	89.25	89.23	89.26	89.22	89.23	89.24	89.39	89.28	89.19
7	89.10	89.14	89.08	89.27	89.21	89.27	89.21	89.25	89.27	89.42	89.27	89.18
8	89.10	89.13	89.13	89.27	89.22	89.29	89.20	89.22	89.26	89.37	89.27	89.17
9	89.10	89.10	89.22	89.26	89.27	89.36	89.18	89.22	89.24	89.35	89.27	89.17
10	89.11	89.07	89.22	89.26	89.25	89.35	89.18	89.22	89.26	89.33	89.27	89.17
11	89.17	89.06	89.19	89.25	89.25	89.31	89.18	89.20	89.22	89.35	89.27	89.19
12	89.21	89.06	89.17	89.26	89.25	89.30	89.19	89.18	89.28	89.35	89.27	89.19
13	89.17	89.08	89.19	89.27	89.26	89.29	89.21	89.17	89.24	89.33	89.27	89.18
14	89.12	89.09	89.25	89.27	89.25	89.29	89.23	89.15	89.20	89.32	89.28	89.17
15	89.09	89.11	89.23	89.26	89.24	89.29	89.19	89.13	89.26	89.40	89.27	89.17
16	89.07	89.11	89.31	89.25	89.28	89.29	89.18	89.11	89.20	89.45	89.26	89.17
17	89.05	89.11	89.27	89.25	89.29	89.26	89.17	89.12	89.16	89.41	89.29	89.17
18	89.05	89.10	89.27	89.27	89.57	89.27	89.17	89.15	89.12	89.37	89.32	89.16
19	89.04	89.10	89.26	89.30	89.27	89.27	89.18	89.18	89.10	89.38	89.29	89.17
20	89.03	89.10	89.26	89.31	89.32	89.27	89.18	89.25	89.08	89.38	89.28	89.18
21	89.01	89.10	89.27	89.31	89.32	89.26	89.18	89.19	89.18	89.34	89.27	89.16
22	89.00	89.10	89.27	89.30	89.28	89.26	89.17	89.15	89.30	89.32	89.27	89.15
23	89.00	89.13	89.26	89.27	89.26	89.25	89.17	89.14	89.31	89.31	89.27	89.17
24	89.03	89.16	89.27	89.22	89.25	89.26	89.17	89.12	89.16	89.30	89.25	89.20
25	89.07	89.25	89.27	89.24	89.23	89.27	89.19	89.13	88.97	89.29	89.25	89.18
26	89.11	89.08	89.26	89.27	89.23	89.27	89.18	89.25	88.88	89.28	89.25	89.17
27	89.13	89.01	89.23	89.26	89.25	89.26	89.16	89.20	88.86	89.31	89.25	89.16
28	89.13	88.96	89.22	89.25	89.23	89.25	89.15	89.17	88.83	89.33	89.25	89.15
29	89.13	88.91	89.21	89.24	---	89.24	89.14	89.15	88.81	89.35	89.23	89.14
30	89.13	88.91	89.22	89.23	---	89.23	89.14	89.14	88.91	89.33	89.23	89.14
31	89.12	---	89.23	89.22	---	89.22	---	89.13	---	89.31	89.23	---
MEAN	89.10	89.09	89.17	89.26	89.26	89.27	89.19	89.18	89.15	89.34	89.27	89.18
MAX	89.21	89.25	89.31	89.31	89.57	89.36	89.24	89.25	89.31	89.45	89.32	89.22
MIN	89.00	88.91	88.90	89.22	89.21	89.22	89.14	89.11	88.81	89.07	89.23	89.14
CAL YR 1977	MEAN 87.63		MAX 89.31		MIN 84.90							
WTR YR 1978	MEAN 89.20		MAX 89.57		MIN 88.81							

SOUTHERN FLORIDA

KISSIMMEE RIVER BASIN

02264000 CYPRESS CREEK AT VINELAND, FL

LOCATION.--Lat 28°23'25", long 81°31'11", in NW¼ sec.21, T.24 S., R.28 E., Orange County, Hydrologic Unit 03090101, at upstream side of culverts on State Highway 535, 1.0 mi (1.6 km) west of Vineland.

DRAINAGE AREA.--30.3 mi² (78.5 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 96.20 ft (29.322 m) National Geodetic Vertical Datum of 1929. Prior to June 13, 1946, nonrecording gage at same site and datum.

REMARKS.--Records fair. Some diversions by pumping above station for irrigation.

AVERAGE DISCHARGE.--33 years, 6.59 ft³/s (0.187 m³/s), 2.95 in/yr (75 mm/yr) 4,770 acre-ft/yr (5.88 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 354 ft³/s (10.0 m³/s) Sept. 11, 1960, gage height, 4.66 ft (1.420 m); no flow for many days in most years; creek dry at gage for many days in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4.2 ft³/s (0.12 m³/s) July 29, gage height, 2.13 ft (0.649 m), no peak above base of 30 ft³/s (0.85 m³/s); no flow many days; creek dry at gage many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.14	.04	.00	.16	.34	1.2	.35	.00	.00	.13	2.3	.23
2	.12	.03	.00	.16	.40	1.1	.32	.00	.00	.54	2.0	.19
3	.12	.02	.00	.16	.48	1.9	.28	.00	.00	.41	1.7	.16
4	.12	.04	.00	.15	.45	2.3	.25	.00	.00	.34	1.4	.15
5	.12	.07	.00	.15	.43	2.0	.22	.00	.00	.28	1.1	.15
6	.11	.06	.00	.14	.40	1.8	.19	.01	.00	.34	1.0	.12
7	.09	.05	.00	.13	.37	1.6	.17	.14	.04	.53	.91	.08
8	.08	.05	.00	.15	.40	1.5	.14	.13	.10	.52	.77	.07
9	.08	.04	.00	.21	.78	2.4	.11	.09	.10	.48	.70	.07
10	.08	.02	.00	.19	.69	2.7	.09	.09	.10	.41	.60	.07
11	.10	.00	.00	.18	.64	2.4	.08	.07	.09	.43	.56	.11
12	.11	.00	.00	.17	.59	2.2	.07	.05	.20	1.0	.77	.08
13	.17	.00	.01	.20	.56	1.9	.06	.04	.18	1.5	.93	.07
14	.15	.00	.03	.21	.53	1.7	.09	.03	.12	1.5	1.1	.06
15	.13	.00	.04	.20	.50	1.6	.07	.01	.11	1.5	1.2	.05
16	.10	.00	.13	.19	.92	1.4	.06	.00	.13	1.7	1.0	.05
17	.09	.00	.16	.21	1.1	1.3	.04	.00	.11	1.9	1.2	.04
18	.08	.00	.16	.22	2.3	1.2	.03	.00	.07	2.0	3.4	.03
19	.07	.00	.15	.32	2.4	1.1	.01	.00	.06	1.8	2.5	.01
20	.06	.00	.13	.49	2.6	1.0	.00	.00	.05	2.2	1.8	.02
21	.05	.00	.14	.44	2.5	.94	.00	.00	.09	1.9	1.3	.00
22	.04	.00	.16	.44	2.2	.87	.00	.00	.18	1.5	1.1	.00
23	.04	.00	.15	.44	1.9	.79	.00	.00	.32	1.3	.87	.00
24	.06	.00	.15	.44	1.7	.73	.00	.00	.33	1.1	.71	.00
25	.08	.00	.16	.43	1.5	.68	.00	.00	.24	1.4	.59	.00
26	.08	.00	.17	.44	1.4	.66	.00	.00	.20	1.9	.49	.00
27	.08	.00	.16	.41	1.3	.59	.00	.00	.17	1.9	.41	.00
28	.07	.00	.15	.39	1.2	.53	.00	.00	.14	3.2	.35	.00
29	.06	.00	.15	.37	---	.48	.00	.00	.10	4.0	.29	.00
30	.06	.00	.15	.35	---	.44	.00	.00	.07	3.5	.26	.00
31	.05	---	.15	.34	---	.39	---	.00	---	2.7	.24	---
TOTAL	2.79	.42	2.50	8.48	30.58	41.40	2.63	.66	3.30	43.91	33.55	1.81
MEAN	.090	.014	.081	.27	1.09	1.34	.088	.021	.11	1.42	1.08	.060
MAX	.17	.07	.17	.49	2.6	2.7	.35	.14	.33	4.0	3.4	.23
MIN	.04	.00	.00	.13	.34	.39	.00	.00	.00	.13	.24	.00
CFSM	.003	.000	.003	.009	.04	.04	.003	.001	.004	.05	.04	.002
IN-	.00	.00	.00	.01	.04	.05	.00	.00	.00	.05	.04	.00
AC-FT	5.5	.8	5.0	17	61	82	5.2	1.3	6.5	87	67	3.6
CAL YR 1977	TOTAL	30.08	MEAN	.082	MAX	.61	MIN	.00	CFSM	.003	IN	.04
WTR YR 1978	TOTAL	172.03	MEAN	.47	MAX	4.0	MIN	.00	CFSM	.02	IN	.21
									AC-FT	60		
									AC-FT	341		

SOUTHERN FLORIDA

33

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 0309101, on downstream side of bridge on U.S. Highway 192 (revised), about 1 mi (2 km) upstream from Reedy Creek Swamp, and 4.5 mi (7.2 km) south of Vineland.

DRAINAGE AREA.--56.1 mi² (145.3 km²).

PERIOD OF RECORD.--May 1966 to current year. Results of miscellaneous discharge measurements for some periods prior to May 1966 are available in files of the Geological Survey.

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 (11.570 m) higher.

REMARKS.--Records good. Since October 1968, flow regulated by automatic gates upstream and since December 1970, by control structure S-11-temporary 0.5 mi (0.8 km) 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.

AVERAGE DISCHARGE.--12 years, 21.1 ft³/s (0.598 m³/s), 15,290 acre-ft/yr (18.9 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 476 ft³/s (13.5 m³/s) June 28, 1974; maximum gage height, 78.58 ft (23.951 m) Nov. 1, 1969; no flow May 11 to June 1, June 4-9, 1967, Nov. 6, 1968, Aug. 22, 1969; minimum gage height, 68.32 ft (20.824 m) August 21, 1969.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 11, 1960, reached a stage of 42.5 ft (12.95 m), datum then in use, from floodmarks, discharge, 1,200 ft³/s (34.0 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 165 ft³/s (4.67 m³/s) July 29; maximum gage height, 73.97 ft (22.546 m) July 15, Aug. 5; minimum daily, 0.84 ft³/s (0.024 m³/s) Nov. 2; minimum gage height, 72.10 ft (21.976 m) Nov. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	6.9	10	16	16	46	17	11	9.8	18	81	22
2	29	8.4	11	18	20	35	18	10	29	43	67	22
3	28	6.3	11	21	19	56	18	10	33	30	49	20
4	26	7.6	10	22	17	59	17	44	18	26	47	20
5	24	11	9.6	20	15	50	18	20	18	24	91	23
6	24	11	14	17	13	43	17	20	28	61	69	21
7	23	9.0	20	16	12	32	17	33	37	64	46	20
8	21	9.0	13	18	33	47	19	17	24	56	37	19
9	20	9.4	14	21	25	80	18	15	22	37	30	19
10	20	8.6	16	19	18	68	18	16	22	33	26	22
11	20	7.7	13	17	16	44	17	17	22	37	31	19
12	21	7.5	13	16	15	52	17	17	38	82	47	20
13	24	7.5	12	19	14	38	17	17	22	58	51	19
14	19	7.5	11	18	13	34	16	16	17	46	47	20
15	18	7.6	9.0	18	15	33	17	14	16	95	33	19
16	16	8.3	14	17	25	31	16	14	23	137	30	19
17	14	8.4	30	17	50	28	16	13	24	125	44	19
18	13	8.2	23	18	60	24	14	13	19	125	85	19
19	13	8.0	21	39	65	25	13	12	16	103	47	21
20	13	7.8	20	38	54	24	13	15	16	122	42	22
21	13	7.7	20	32	56	24	12	13	26	89	35	23
22	12	7.7	19	31	50	24	12	13	32	81	32	20
23	12	9.0	18	28	40	22	11	12	48	57	29	20
24	17	15	17	20	36	21	11	12	39	41	26	19
25	16	23	16	18	35	22	12	12	28	68	26	26
26	11	20	16	17	34	22	11	13	26	57	25	26
27	11	16	15	16	33	21	11	15	21	97	24	25
28	11	13	15	16	41	21	12	13	22	149	24	24
29	11	11	14	16	---	19	11	12	20	165	23	22
30	11	13	14	15	---	19	11	11	17	138	23	23
31	11	---	15	15	---	18	---	9.5	---	99	22	---
TOTAL	551	293.54	473.6	629	840	1082	447	479.5	734.8	2363	1289	633
MEAN	17.8	9.78	15.3	20.3	30.0	34.9	14.9	15.5	24.5	76.2	41.6	21.1
MAX	29	23	30	39	65	80	19	44	48	165	91	26
MIN	11	8.4	9.0	15	12	18	11	9.5	9.8	18	22	19
AC-FT	1090	582	939	1250	1670	2150	887	951	1460	4690	2560	1260
CAL YR 1977	TOTAL	6232.44	MEAN 17.1	MAX 112	MIN .00	AC-FT 12360						
WTR YR 1978	TOTAL	9815.44	MEAN 26.9	MAX 165	MIN .84	AC-FT 19470						

SOUTHERN FLORIDA
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, near left bank on downstream side of bridge on county road, 100 ft (30 m) downstream from Atlantic Coast Line Railroad bridge, 0.8 mi (1.3 km) north-east of Campbell, and 2.5 mi (4.0 km) upstream from Lake Tohopekaliga.

DRAINAGE AREA.--180 mi² (466 km²), 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 fair. 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.--10 years, 114 ft³/s (3.228 m³/s), 82,590 acre-ft/yr (102 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,510 ft³/s (42.8 m³/s) Oct. 5, 1969, gage height, 59.72 ft (18.203 m); minimum daily discharge, 3.1 ft³/s (0.088 m³/s) May 9, 10, 1971; minimum gage height, 49.78 ft (15.173 m) May 10, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 695 ft³/s (19.7 m³/s) Feb. 18, gage height, 56.51 ft (17.224 m); minimum daily discharge, 29 ft³/s (0.82 m³/s) June 1; minimum gage height, 51.90 ft (15.819 m) May 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	259	62	60	124	83	217	67	41	29	53	474	61
2	235	59	63	127	88	196	65	44	48	47	434	58
3	212	68	62	117	116	267	65	48	89	42	414	55
4	181	89	61	108	110	361	61	64	94	47	382	56
5	141	128	54	99	94	322	58	82	86	54	367	58
6	129	98	131	91	88	290	56	67	69	83	384	56
7	111	82	105	81	83	273	58	70	75	85	322	54
8	101	71	76	88	81	264	55	79	76	99	276	52
9	90	84	120	123	134	304	55	80	84	82	259	52
10	88	65	177	110	125	321	52	82	98	73	227	54
11	98	64	132	104	106	280	53	76	129	82	241	55
12	93	57	112	93	100	256	52	63	143	137	475	55
13	100	55	102	142	94	244	52	51	125	197	428	56
14	87	53	107	138	102	231	74	49	104	155	473	56
15	79	51	121	105	99	219	69	40	94	138	448	54
16	75	50	211	94	217	200	66	38	83	263	393	54
17	74	48	221	108	365	189	63	39	85	330	322	53
18	68	50	170	131	537	166	63	39	76	353	284	53
19	65	48	122	142	521	147	59	38	63	377	275	54
20	65	50	119	264	459	136	68	43	57	444	242	52
21	64	49	124	178	450	126	67	41	142	384	209	49
22	62	46	129	151	420	118	69	37	256	352	191	51
23	70	51	119	146	400	108	62	37	201	345	178	51
24	77	56	123	143	362	98	65	35	201	338	151	56
25	109	74	133	123	343	88	58	35	123	305	128	56
26	112	74	129	139	310	83	58	35	99	294	109	52
27	89	58	125	125	264	80	61	36	86	306	92	50
28	75	57	126	112	230	78	48	37	79	438	78	51
29	68	58	131	104	---	81	44	35	69	494	71	48
30	67	62	126	93	---	78	43	32	61	519	67	48
31	70	---	126	87	---	72	---	31	---	490	63	---
TOTAL	3214	1897	3717	3790	6381	5893	1786	1524	3024	7406	8457	1610
MEAN	104	63.2	120	122	228	190	59.5	49.2	101	239	273	53.7
MAX	259	128	221	264	537	361	74	82	256	519	475	61
MIN	62	46	54	81	81	72	43	31	29	42	63	48
AC-FT	6370	3760	7370	7520	12660	11690	3540	3020	6000	14690	16770	3190
CAL YR 1977	TOTAL	32264	MEAN	88.4	MAX	520	MIN	11	AC-FT	64000		
WTR YR 1978	TOTAL	48699	MEAN	133	MAX	537	MIN	29	AC-FT	96590		

SOUTHERN 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 (4 m) downstream from culverts on Hartzog Road, 7 mi (11 km) west of Vineland.

DRAINAGE AREA.--12.4 mi² (32.1 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 7.23 ft (2.204 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for period of no gage-height records, July 20 to Aug. 8, which are poor.

AVERAGE DISCHARGE.--12 years, 2.71 ft³/s (0.077 m³/s), 2.97 in/yr (75 mm/yr), 1,960 acre-ft/yr (2.42 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 50 ft³/s (1.42 m³/s) Feb. 7, 1970; maximum gage height, 94.69 ft (28.862 m) Feb. 7, 1970; no flow for many days each year; creek dry at gage for many days in most years.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 15 ft³/s (0.42 m³/s) July 20; maximum gage height, 94.34 ft (28.755 m) July 20; no flow for many days; creek dry at gage for many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	1.3	.05	.08	.99	.94	6.9	2.2	.00	.00	.48	10	.39		
2	1.0	.05	.07	1.0	1.1	6.5	2.0	.00	.06	.42	11	.19		
3	.81	.05	.07	.96	1.5	7.5	1.8	.00	.21	.28	12	.15		
4	.55	.11	.06	.84	1.4	8.4	1.5	.09	.27	.20	11	.14		
5	.36	.29	.05	.75	1.3	8.0	1.3	.22	.30	.16	10	.13		
6	.28	.25	.16	.66	1.1	7.6	.99	.27	.26	.97	8.8	.09		
7	.26	.21	.18	.58	.99	7.2	.80	.47	.25	2.1	7.0	.05		
8	.22	.19	.16	.60	1.0	6.9	.61	.41	.31	1.9	6.6	.05		
9	.18	.18	.19	.90	2.6	8.0	.46	.34	.29	1.7	6.1	.04		
10	.18	.16	.26	.78	2.6	9.5	.31	.26	.36	1.3	5.6	.03		
11	.17	.14	.24	.67	2.4	9.7	.28	.21	.37	1.7	5.3	.02		
12	.19	.13	.22	.60	2.2	9.6	.21	.17	.95	3.8	5.1	.01		
13	.22	.12	.21	.79	2.1	9.3	.25	.14	.97	3.5	5.6	.00		
14	.17	.11	.22	.84	2.0	8.9	.65	.09	.79	3.2	6.8	.00		
15	.15	.09	.22	.72	1.7	8.7	.54	.04	.85	3.6	6.6	.00		
16	.13	.08	1.1	.65	3.1	8.3	.37	.01	1.1	4.8	6.5	.00		
17	.12	.07	1.5	.70	4.7	7.5	.26	.00	.98	5.0	6.0	.00		
18	.11	.06	1.3	.82	7.5	6.8	.25	.00	.76	5.2	6.0	.00		
19	.09	.05	1.1	1.2	8.8	6.2	.32	.02	.54	11	5.5	.00		
20	.07	.05	.92	2.1	9.2	5.7	.30	.16	.40	15	5.0	.00		
21	.05	.04	1.1	2.0	9.7	5.5	.23	.14	1.1	14	4.5	.00		
22	.05	.03	1.4	1.9	9.6	5.2	.18	.12	2.3	12	4.0	.00		
23	.05	.04	1.2	1.8	9.1	4.8	.15	.07	2.8	8.0	3.5	.00		
24	.06	.06	1.1	1.7	8.8	4.5	.12	.03	2.7	5.2	3.0	.00		
25	.10	.12	1.1	1.6	8.3	4.3	.08	.00	2.3	3.9	2.6	.00		
26	.12	.12	1.4	1.6	7.8	4.0	.05	.00	2.0	3.5	2.2	.00		
27	.10	.10	1.2	1.4	7.4	3.7	.04	.00	1.7	5.0	1.8	.00		
28	.09	.08	1.0	1.2	7.0	3.3	.01	.00	1.4	8.8	1.5	.00		
29	.07	.07	.93	1.1	---	3.1	.00	.00	1.0	13	1.1	.00		
30	.06	.08	.88	1.0	---	2.8	.00	.00	.69	12	.78	.00		
31	.05	---	.94	.94	---	2.5	---	.00	---	11	.56	---		
TOTAL	7.36	3.18	20.56	33.39	125.93	200.9	16.26	3.26	28.01	162.71	172.04	1.29		
MEAN	.24	.11	.66	1.08	4.50	6.48	.54	.11	.93	5.25	5.55	.043		
MAX	1.3	.29	1.5	2.1	9.7	9.7	2.2	.47	2.8	15	12	.39		
MIN	.05	.03	.05	.58	.94	2.5	.00	.00	.00	.16	.56	.00		
CFSM	.02	.009	.05	.09	.36	.52	.04	.009	.08	.42	.45	.003		
IN.	.02	.01	.06	.10	.38	.60	.05	.01	.08	.49	.52	.00		
AC-FT	15	6.3	41	66	250	398	32	6.5	56	323	341	2.6		
CAL YR 1977	TOTAL	64.56	MEAN	.18	MAX	3.5	MIN	.00	CFSM	.02	IN	.19	AC-FT	128
WTR YR 1978	TOTAL	774.89	MEAN	2.12	MAX	15	MIN	.00	CFSM	.17	IN	2.32	AC-FT	1540

SOUTHERN FLORIDA
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 (4.0 km) upstream from bridge on Interstate Highway 4, 6.5 mi (10.5 km) southwest of Vineland, and 28 mi (45 km) upstream from mouth.

DRAINAGE AREA.--75 mi² (194 km²), approximately.

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 available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is 66.37 ft (20.230 m) National Geodetic Vertical Datum of 1929. Sept. 26, 1962, to January 1966, crest-stage gage at site 100 ft (30 m) upstream at same datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--12 years, 28.4 ft³/s (0.804 m³/s), 20,580 acre-ft/yr (25.4 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,910 ft³/s (54.1 m³/s) Sept. 11, 1960, gage height, 14.9 ft (4.54 m) from floodmark; no flow for many days in some years; minimum gage height, 8.18 ft (2.493 m) May 12, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 280 ft³/s (7.93 m³/s) July 18, gage height, 11.72 ft (3.572 m); minimum, 3.9 ft³/s (0.11 m³/s) Sept. 29,30, gage height, 8.82 ft (2.688 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	8.3	13	21	21	51	14	5.4	7.7	14	121	9.5
2	17	7.9	18	21	22	59	14	5.6	12	21	75	9.3
3	16	8.1	14	19	25	59	13	5.8	47	25	88	8.8
4	15	9.7	12	19	24	93	11	16	63	22	84	9.0
5	15	11	12	29	23	80	10	49	69	18	63	9.4
6	14	11	20	20	22	68	10	18	80	19	49	18
7	14	10	33	18	24	53	10	16	45	82	44	21
8	13	9.2	19	18	54	58	10	14	42	113	59	12
9	12	8.8	21	22	59	70	9.7	28	26	83	48	9.0
10	11	8.6	28	21	53	91	9.0	33	29	60	31	7.6
11	13	8.2	25	20	45	85	8.1	15	24	55	26	7.0
12	12	8.0	22	19	40	62	7.7	9.6	61	149	28	5.8
13	13	7.7	21	20	35	58	7.9	8.9	82	146	36	5.2
14	13	7.5	20	21	35	66	10	8.1	68	75	55	5.1
15	12	7.2	20	20	48	50	10	7.4	30	73	66	5.1
16	11	7.1	30	19	44	43	8.6	6.7	27	102	61	5.6
17	10	6.6	63	20	97	39	7.7	6.3	36	117	46	5.2
18	9.9	6.4	53	23	113	35	7.1	6.9	32	240	43	4.9
19	9.5	6.3	44	44	144	32	7.2	8.6	25	113	47	5.5
20	9.2	6.2	36	65	119	31	7.7	24	20	140	37	6.2
21	8.2	6.1	32	50	124	41	7.4	21	23	142	31	5.7
22	8.3	6.2	34	48	102	27	7.5	13	40	113	27	6.0
23	8.7	7.2	33	46	80	25	7.3	11	91	95	23	7.3
24	9.8	10	29	36	66	24	6.9	9.4	96	89	20	6.0
25	12	20	23	29	70	24	6.3	9.4	50	75	17	5.3
26	13	17	23	29	50	23	9.7	12	34	65	15	4.9
27	32	13	22	27	47	22	17	11	42	68	13	4.6
28	22	11	25	25	63	36	8.2	11	27	117	12	5.1
29	11	11	21	23	---	37	6.1	9.8	19	109	11	4.7
30	9.7	12	19	21	---	23	5.4	9.0	16	113	9.9	4.6
31	8.9	---	20	21	---	15	---	8.0	---	117	9.6	---
TOTAL	401.2	277.3	805	834	1654	1480	274.5	416.9	1263.7	2770	1295.5	223.4
MEAN	12.9	9.24	26.0	26.9	59.1	47.7	9.15	13.4	42.1	89.4	41.8	7.45
MAX	32	20	63	65	149	93	17	49	96	240	121	21
MIN	8.2	6.1	12	18	21	15	5.4	5.4	7.7	14	9.6	4.6
AC-FT	796	550	1600	1650	3280	2940	544	827	2510	5490	2570	443

CAL YR 1977 TOTAL 6062.3 MEAN 16.6 MAX 79 MIN 3.2 AC-FT 12020
WTH YR 1978 TOTAL 11695.5 MEAN 32.0 MAX 240 MIN 4.6 AC-FT 23200

SOUTHERN FLORIDA

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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 (3.2 km) upstream from mouth, and 2.5 mi (4.0 km) northwest of Loughman.

DRAINAGE AREA.--23 mi² (60 km²), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 80.49 ft (24.533 m) National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

REMARKS.--Records good.

AVERAGE DISCHARGE.--9 years, 9.25 ft³/s (0.262 m³/s), 5.46 in/yr (139 mm/yr), 6,700 acre-ft/yr (8.26 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 498 ft³/s (14.1 m³/s) Sept. 22, 1969, gage height, 9.76 ft (2.975 m); minimum, 0.40 ft³/s (0.011 m³/s) Apr. 23, June 7-11, 16-18, 1972 gage height, 4.10 ft (1.250 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 71 ft³/s (2.01 m³/s) July 19, gage height, 7.25 ft (2.210 m), no peak above base of 80 ft³/s (2.27 m³/s); minimum, 0.64 ft³/s (0.018 m³/s) May 31, June 1, gage height, 4.13 ft (1.259 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	3.9	5.1	8.6	7.3	14	3.6	1.1	.89	2.7	43	3.0
2	8.5	3.9	4.8	8.6	8.1	14	3.4	1.1	1.6	2.4	40	2.7
3	7.4	3.9	5.0	8.4	11	17	3.1	1.1	3.2	2.1	41	2.6
4	6.6	5.2	4.5	7.8	11	25	2.9	3.3	4.8	1.8	36	2.8
5	6.2	6.3	4.3	7.4	11	27	2.7	3.6	4.5	1.7	29	3.8
6	5.2	6.1	8.2	7.1	9.9	24	2.6	2.3	3.6	12	23	11
7	4.6	5.5	8.1	6.8	8.9	21	2.3	2.5	2.6	17	19	7.7
8	4.2	5.0	7.1	7.2	8.5	18	2.2	1.9	3.4	13	16	5.7
9	4.0	4.5	8.5	9.9	16	19	2.1	1.4	2.5	9.9	14	4.6
10	3.9	4.3	11	9.6	19	23	2.0	1.4	2.6	7.8	12	5.1
11	5.3	3.9	10	8.9	19	25	1.9	1.3	3.2	9.1	11	8.9
12	4.6	3.6	8.9	8.1	16	23	1.8	1.1	11	24	11	7.3
13	4.7	3.5	8.1	8.8	14	20	1.7	1.0	6.8	32	15	5.4
14	4.0	3.4	8.4	9.5	12	17	1.6	.93	4.5	29	22	4.4
15	3.6	3.2	8.2	9.2	11	15	2.2	.89	3.5	23	25	3.8
16	3.4	3.1	13	8.5	16	13	2.0	.84	3.0	19	24	3.6
17	3.1	3.1	16	8.9	27	12	1.8	.84	3.3	20	19	3.3
18	3.0	3.0	16	11	43	10	1.4	.84	2.6	20	14	3.0
19	2.7	3.0	14	13	59	9.3	1.5	1.2	2.2	50	11	2.9
20	2.6	3.0	12	19	58	8.6	1.6	2.1	2.0	69	9.3	3.1
21	2.6	2.9	11	19	50	8.0	1.4	1.6	4.3	64	8.0	2.7
22	2.6	2.9	12	17	41	7.4	1.3	1.2	10	54	7.2	2.4
23	2.8	3.5	11	15	33	6.8	1.3	1.1	10	43	6.9	2.3
24	3.3	4.8	10	13	26	6.3	1.3	.93	9.5	35	5.9	2.5
25	5.7	5.2	10	12	22	5.9	1.2	.89	7.7	30	5.1	2.6
26	8.8	5.0	11	12	19	5.4	1.2	.98	5.9	25	4.5	2.4
27	6.9	4.3	11	11	17	5.0	1.2	.93	4.5	28	3.9	2.3
28	5.8	3.9	10	9.6	15	4.8	1.2	.89	3.6	42	3.6	2.3
29	5.0	3.7	9.4	8.8	---	4.5	1.1	.80	3.3	52	3.3	2.8
30	4.5	4.9	8.6	8.0	---	4.3	1.1	.76	2.9	51	3.1	2.6
31	4.2	---	8.6	7.4	---	3.9	---	.72	---	46	3.0	---
TOTAL	149.8	122.5	293.8	319.1	608.7	417.2	56.7	41.54	133.49	835.5	488.8	119.6
MEAN	4.83	4.08	9.48	10.3	21.7	13.5	1.89	1.34	4.45	27.0	15.8	3.99
MAX	10	6.3	16	19	59	27	3.6	3.6	11	69	43	11
MIN	2.6	2.9	4.3	6.8	7.3	3.9	1.1	.72	.89	1.7	3.0	2.3
CFSM	.21	.18	.41	.45	.94	.59	.08	.06	.19	1.17	.69	.17
IN.	.24	.20	.48	.52	.98	.67	.09	.07	.22	1.35	.79	.19
AC-FT	297	243	583	633	1210	828	112	82	265	1660	970	237

CAL YR 1977 TOTAL 2149.51 MEAN 5.89 MAX 56 MIN .63 CFSM .26 IN 3.48 AC-FT 4260
WTR YR 1978 TOTAL 3586.73 MEAN 9.83 MAX 69 MIN .72 CFSM .43 IN 5.80 AC-FT 7110

SOUTHERN 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 (6 m) upstream from bridge on U.S. Highways 17 and 92, 1.0 mi (1.6 km) downstream from Reedy Creek Improvement District Structure 40, 2.5 mi (4.0 km) northeast of Loughman, 3 mi (5 km) downstream from Davenport Creek, and 21 mi (34 km) upstream from mouth.

DRAINAGE AREA.--110 mi² (285 km²), approximately, includes an indeterminate portion of the Reedy Creek Swamp watershed.

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 (19.657 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 20, 1940, nonrecording gage at same site and datum.

REMARKS.--Records fair. 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.--30 years (water years 1940-59, 1969-78), 70.9 ft³/s (2.008 m³/s), 51,370 acre-ft/yr (63.3 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 790 ft³/s (22.4 m³/s) Sept. 24, 1969, gage height, 4.25 ft (1.295 m), from rating curve extended above 400 ft³/s (11.3 m³/s); no flow for many days in some years; minimum gage height, -0.16 ft (-0.049 m) June 11, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 232 ft³/s (6.57 m³/s) July 27,28, gage height, 3.15 ft (0.960 m); no flow, Apr. 30 to May 3, May 29 to June 1, Sept. 29,30; minimum gage height, 0.66 ft (0.201 m) May 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	161	29	8.5	62	56	138	71	.00	.00	55	200	18
2	155	29	7.7	62	58	126	66	.00	.20	54	193	14
3	152	29	6.9	62	58	135	65	.00	.73	52	186	11
4	143	30	6.2	59	56	143	62	1.1	.94	51	176	9.3
5	132	29	6.0	58	58	138	59	1.7	.73	50	170	9.0
6	118	28	10	59	56	132	53	.73	.73	53	164	8.1
7	58	28	12	59	56	126	31	.73	7.7	60	152	7.0
8	38	28	11	58	56	121	22	.73	26	63	146	6.1
9	30	27	12	60	66	126	16	.65	34	59	141	5.2
10	26	26	18	59	66	129	13	.65	40	58	129	4.8
11	28	26	16	58	66	129	9.8	.65	48	59	129	4.8
12	25	25	14	56	68	126	7.8	.57	52	66	132	4.3
13	28	25	13	58	68	126	6.7	.57	54	66	118	3.7
14	39	24	13	58	68	121	6.5	.50	55	66	110	3.1
15	39	23	13	56	68	118	5.9	.30	56	66	103	2.8
16	35	23	16	54	83	110	5.3	.30	56	80	98	2.5
17	35	22	19	55	93	100	4.7	.20	56	85	96	2.4
18	35	22	18	55	113	91	4.2	.20	55	91	91	2.1
19	34	22	17	56	121	85	3.7	.30	54	96	80	1.9
20	33	21	16	63	123	83	3.6	.57	53	103	74	1.7
21	33	21	16	63	149	81	3.2	.30	65	141	71	1.1
22	32	21	17	63	167	76	2.9	.30	68	189	74	.94
23	32	21	16	62	173	74	2.6	.30	62	206	91	.94
24	32	22	15	63	176	73	2.2	.30	60	209	89	.73
25	34	21	15	62	176	71	1.9	.20	59	206	85	.65
26	35	15	17	63	173	68	1.1	.20	59	200	78	.40
27	33	12	16	62	161	66	.50	.20	60	196	69	.10
28	32	10	15	60	149	66	.30	.10	62	216	62	.10
29	31	9.1	24	59	---	74	.20	.00	58	213	55	.00
30	31	9.5	48	59	---	74	.00	.00	56	206	45	.00
31	30	---	59	58	---	73	---	.00	---	200	27	---
TOTAL	1699	677.6	511.3	1841	2781	3199	531.10	12.35	1259.03	3517	3434	126.76
MEAN	54.8	22.6	16.5	59.4	99.3	103	17.7	.40	42.0	113	111	4.23
MAX	161	30	59	63	176	143	71	1.7	68	216	200	18
MIN	25	9.1	6.0	54	56	66	.00	.00	.00	50	27	.00
AC-FT	3370	1340	1010	3650	5520	6350	1050	24	2500	6960	6810	251

CAL YR 1977 TOTAL 8834.04 MEAN 24.2 MAX 177 MIN .00 AC-FT 17520
WTR YR 1978 TOTAL 19589.14 MEAN 53.7 MAX 216 MIN .00 AC-FT 38860

SOUTHERN FLORIDA

39

KISSIMEE 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 (0.3 km) downstream from Lake Pierce, 7 mi (11 km) northeast of city of Lake Wales, and 9.3 mi (15.0 km) upstream from mouth.

DRAINAGE AREA.--58.9 mi² (152.6 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 72.70 ft (22.159 m) National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark).

REMARKS.--Records fair except those for periods of no gage-height record, Oct. 5 to Jan. 20 and Mar. 25 to May 12, which are poor.

AVERAGE DISCHARGE.--31 years, 47.2 ft³/s (1.337 m³/s), 10.88 in/yr (276 mm/yr), 34,200 acre-ft (42.2 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 235 ft³/s (6.66 m³/s) Sept. 17, 18, 1960; maximum gage height, 6.02 ft (1.835 m) Sept. 15, 1960, affected by wind; minimum daily discharge, 1.4 ft³/s (0.040 m³/s) June 1, 1967; minimum gage height 2.50 ft (0.762 m) May 31, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 85 ft³/s (2.41 m³/s) Aug. 3,4,6; maximum gage height, 4.72 ft (1.439 m) Aug. 3-5; minimum daily discharge, 25 ft³/s (0.71 m³/s) estimated, May 1,2, recorded, May 26; minimum gage height, 3.71 ft (1.131 m) June 19-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	41	36	40	41	46	41	25	27	47	83	60
2	55	42	37	40	41	45	40	25	28	47	82	59
3	54	44	37	40	42	49	39	26	28	47	85	58
4	53	45	36	39	42	55	38	26	29	46	85	58
5	52	44	35	39	42	54	37	27	30	46	84	62
6	51	43	34	39	42	53	36	27	30	46	85	64
7	50	43	33	40	40	52	36	27	30	45	83	64
8	49	42	34	40	40	52	36	26	31	45	82	63
9	49	41	35	39	42	53	36	26	32	46	81	62
10	48	40	36	39	42	56	35	27	32	47	79	61
11	48	39	36	38	41	53	34	27	33	49	79	61
12	48	38	35	38	40	52	33	27	35	53	80	59
13	48	37	34	39	40	51	32	29	34	53	81	58
14	47	36	34	40	41	51	31	29	33	51	80	57
15	46	36	35	39	40	51	32	28	33	51	80	57
16	44	36	35	39	40	51	32	27	32	53	79	59
17	43	35	36	38	41	51	31	27	33	54	77	58
18	42	34	37	38	45	48	30	27	32	56	76	57
19	41	34	37	39	48	46	30	28	32	61	76	57
20	41	35	36	44	49	45	29	28	32	67	77	56
21	41	35	36	47	51	45	29	27	32	67	76	55
22	39	35	36	45	51	45	30	27	34	66	74	54
23	39	35	36	45	49	45	31	26	39	66	73	54
24	38	35	37	45	48	43	32	26	45	66	71	54
25	38	35	37	44	47	42	32	26	49	65	70	54
26	38	34	38	47	47	42	31	25	47	64	69	54
27	38	34	39	45	47	43	30	26	48	68	67	53
28	39	34	40	45	46	44	28	27	48	81	65	52
29	40	35	40	44	---	44	27	27	48	82	64	51
30	40	35	41	42	---	43	27	27	48	83	62	50
31	41	---	41	42	---	42	---	27	---	83	61	---
TOTAL	1396	1132	1129	1278	1225	1492	985	830	1064	1801	2366	1721
MEAN	45.0	37.7	36.4	41.2	43.8	48.1	32.8	26.8	35.5	58.1	76.3	57.4
MAX	56	45	41	47	51	56	41	29	49	83	85	64
MIN	38	34	33	38	40	42	27	25	27	45	61	50
AC-FT	2770	2250	2240	2530	2430	2960	1950	1650	2110	3570	4690	3410

CAL YR 1977 TOTAL 12049.9 MEAN 33.0 MAX 62 MIN 6.5 AC-FT 23900
WTR YR 1978 TOTAL 16419.0 MEAN 45.0 MAX 85 MIN 25 AC-FT 32570

SOUTHERN FLORIDA

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 (0.2 km) downstream from bridge on State Highway 60, and 25 mi (40 km) south-east of town of Lake Wales.

DRAINAGE AREA.--1,607 mi² (4,162 km²) 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.--Dual water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Mar. 21, 1934, nonrecording gage at bridge 0.1 mi (0.2 km) upstream at datum 1.25 ft (0.381 m) lower. Mar. 21, 1934, to Sept. 30, 1950, water-stage recorder 3.2 mi (5.1 km) downstream at datum 1.52 ft (0.463 m) lower. Mar. 21, 1934, to Sept. 21, 1966, nonrecording gage at bridge 0.1 mi (0.2 km) upstream used as supplementary gage. Oct. 1, 1950 to Sept. 30, 1969, water-stage recorder 3.2 mi (5.1 km) downstream at datum 43.48 ft (13.253 m) higher. Aug. 17, 1962, to Sept. 30, 1969, auxiliary water-stage recorder 5.1 mi (8.2 km) downstream and at downstream side of lock and control structure 65 subsequent to Sept. 30, 1969.

REMARKS.--Records fair. Flow regulated by operation of control structure 65 since July 1964 and by storage releases at several structures in the river basin headwaters upstream. Gage heights are published as elevations for Lake Kissimmee (station 02268900) in the section of this report entitled "Lake Elevations."

COOPERATION.--Gage-height and gate-operation record furnished by South Florida Water Management District.

AVERAGE DISCHARGE.--45 years, 1,076 ft³/s (30.47 m³/s), 779,600 acre-ft/yr (961 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,970 ft³/s (254 m³/s) Oct. 22, 1969; maximum gage height, 13.16 ft (4.011 m) Oct. 9, 1953, from floodmark, site and datum then in use; maximum reverse flow measured, 1,190 ft³/s (33.7 m³/s) Oct. 17, 1956; no flow for many days; minimum gage height, 42.87 ft (13.067 m) May 25, 1977, present site and datum (result of drawdown of Lake Kissimmee).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,880 ft³/s (223 m³/s) Aug. 22; maximum gage height, 52.09 ft (15.877 m) July 31; no flow for many days; minimum gage height, 47.82 ft (14.576 m) Oct. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.56	.16	.00	1.6	.68	1110	330	402	.12	2.2	761	.38
2	.36	.00	.00	2.4	1.0	1100	330	323	.77	3.2	1810	3.2
3	.07	.30	1.2	.68	1.2	766	330	323	1.8	1.7	3980	5.7
4	.00	.45	.90	1.0	3.4	550	330	323	1.3	2.5	4470	2.5
5	.00	.90	.56	1.4	1.8	559	473	1810	.24	1.0	4470	.38
6	.00	1.5	.72	1.0	333	2070	550	3030	.24	1.3	4470	755
7	.00	.27	.24	3.2	554	3300	550	2990	.48	.26	4470	1450
8	.47	.45	.23	1.3	550	2000	550	2960	.72	1.0	5610	1450
9	.71	.18	.11	.00	322	2400	550	2150	.96	2.0	5760	1450
10	.00	.00	1.6	.00	1650	3330	550	455	1.7	.56	3000	1440
11	.00	.10	1.6	.00	1560	3330	550	654	1.6	1.3	2200	1450
12	.00	.87	.69	1.1	444	3330	546	1060	.96	.84	2220	592
13	.22	.49	.69	.18	444	3330	546	1050	.65	2.0	2220	3300
14	.22	.39	.00	.36	199	2690	546	1060	.00	1.7	2850	3350
15	.85	.65	.24	.72	1.0	2220	546	1050	.52	2.0	3330	.54
16	.78	.54	.12	288	1010	2520	546	1050	.26	1.7	3330	2.9
17	.28	.47	1.2	554	1660	2770	546	591	3.2	.75	2060	1.4
18	.47	.29	2.3	554	1950	2770	542	315	1.6	.30	1120	.00
19	.43	1.5	.43	776	2220	2770	546	315	.48	.70	1120	.72
20	.43	1.1	.85	1970	2220	1790	546	315	.96	.42	1120	.36
21	.50	1.2	.30	3220	2550	1100	546	315	.72	.80	1130	.36
22	1.1	.87	1.0	3220	3670	1110	546	315	.65	2.1	3490	.72
23	.67	.00	1.0	3220	4400	1110	542	315	.36	2.4	4790	2.7
24	.15	.68	.46	3220	4400	898	542	315	1.3	.85	2230	2.3
25	.36	1.3	.31	3190	4370	776	546	315	3.2	.48	2220	.36
26	.30	2.2	.32	3220	4370	776	546	312	1.6	1.0	2220	.18
27	.00	.94	.80	3220	2480	776	546	312	1.4	.51	2230	.38
28	.00	.73	1.1	3220	1100	499	542	310	.91	1.3	1610	.36
29	1.2	.00	1.8	3190	---	330	538	305	1.5	2.4	477	.72
30	.94	.50	1.3	2180	---	330	538	310	1.4	2.1	.57	3.1
31	.16	---	1.4	575	---	330	---	111	---	246	.57	---
TOTAL	11.23	19.03	23.47	35831.94	42465.08	52740	15435	25461	31.60	287.87	80769.14	15266.26
MEAN	.36	.63	.76	1156	1517	1701	515	821	1.05	9.29	2605	509
MAX	1.2	2.2	2.3	3220	4400	3330	550	3030	3.2	246	5760	3350
MIN	.00	.00	.00	.00	.68	330	330	111	.00	.26	.57	.00
AC-FT	22	38	47	71070	84230	104600	30620	50500	63	571	160200	30280
CAL YR 1977	TOTAL	174829.46	MEAN	479	MAX	3650	MIN	.00	AC-FT	346800		
WTR YR 1978	TOTAL	268341.62	MEAN	735	MAX	5760	MIN	.00	AC-FT	532300		

SOUTHERN FLORIDA

41

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 (0.2 km) downstream from bridge on State Highway 60, and 25 mi (40 km) southeast of town of Lake Wales.

DRAINAGE AREA.--1,607 mi² (4,162 km²), at State Highway 60, includes areas drained by Lake Weohyakapka and Lake Marian.

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

GAGE.--Dual water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by 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.

COOPERATION.--Gage-height record furnished by South Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily gage height, 51.44 ft (15.679 m) Oct. 10, 1969; minimum daily, 41.55 ft (12.664 m) Apr. 4, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily gage height, 47.24 ft (14.399 m) Aug. 10; minimum daily, 46.21 ft (14.085 m) May 6, June 25.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46.39	46.36	46.43	46.41	46.30	46.32	46.39	46.42	46.40	46.37	46.40	46.37
2	46.34	46.38	46.50	46.36	46.34	46.40	46.43	46.36	46.62	46.31	46.49	46.44
3	46.30	46.42	46.49	46.32	46.38	46.59	46.43	46.40	46.33	46.31	46.61	46.40
4	46.30	46.51	46.37	46.32	46.36	46.84	46.39	46.48	46.42	46.35	46.64	46.34
5	46.30	46.48	46.37	46.34	46.34	46.45	46.41	46.23	46.30	46.37	46.67	46.41
6	46.29	46.44	46.41	46.37	46.36	46.57	46.45	46.21	46.39	46.40	46.50	46.56
7	46.28	46.38	46.40	46.38	46.43	46.63	46.45	46.45	46.52	46.50	46.51	46.39
8	46.27	46.36	46.36	46.43	46.49	46.63	46.45	46.43	46.47	46.52	46.59	46.33
9	46.26	46.42	46.38	46.41	46.55	46.62	46.40	46.51	46.41	46.34	46.74	46.46
10	46.25	46.44	46.42	46.34	46.43	46.53	46.36	46.54	46.29	46.40	47.24	46.61
11	46.32	46.40	46.42	46.29	46.46	46.52	46.35	46.36	46.30	46.31	47.05	46.35
12	46.41	46.38	46.44	46.31	46.42	46.50	46.40	46.38	46.50	46.41	46.85	46.33
13	46.42	46.35	46.37	46.39	46.38	46.49	46.45	46.53	46.38	46.37	46.93	46.46
14	46.42	46.37	46.37	46.47	46.36	46.50	46.43	46.47	46.26	46.38	46.90	46.50
15	46.42	46.42	46.37	46.43	46.40	46.35	46.37	46.39	46.29	46.37	46.95	46.35
16	46.43	46.44	46.49	46.44	46.43	46.46	46.31	46.40	46.28	46.46	46.89	46.53
17	46.42	46.40	46.67	46.56	46.40	46.62	46.34	46.43	46.34	46.35	46.75	46.47
18	46.41	46.37	46.52	46.40	46.37	46.40	46.37	46.47	46.35	46.29	46.53	46.33
19	46.40	46.35	46.35	46.48	46.40	46.45	46.39	46.47	46.34	46.63	46.46	46.35
20	46.39	46.34	46.33	46.73	46.44	46.46	46.42	46.41	46.32	46.87	46.48	46.38
21	46.37	46.33	46.32	46.70	46.45	46.49	46.41	46.45	46.33	46.34	46.43	46.40
22	46.36	46.33	46.39	46.49	46.47	46.46	46.40	46.40	46.32	46.35	46.56	46.42
23	46.35	46.35	46.40	46.47	46.55	46.40	46.40	46.36	46.55	46.37	46.97	46.54
24	46.38	46.47	46.36	46.48	46.52	46.32	46.37	46.34	46.99	46.32	46.30	46.55
25	46.52	46.47	46.33	46.51	46.53	46.31	46.34	46.35	46.21	46.43	46.58	46.50
26	46.46	46.44	46.39	46.54	46.57	46.31	46.32	46.35	46.45	46.40	46.53	46.36
27	46.41	46.40	46.38	46.48	46.52	46.33	46.35	46.37	46.29	46.36	46.42	46.31
28	46.37	46.38	46.36	46.42	46.58	46.48	46.39	46.47	46.40	46.78	46.40	46.38
29	46.35	46.43	46.35	46.46	---	46.50	46.49	46.55	46.33	47.05	46.54	46.47
30	46.33	46.55	46.37	46.57	---	46.41	46.49	46.44	46.27	46.43	46.34	46.45
31	46.35	---	46.40	46.70	---	46.35	---	46.37	---	46.49	46.30	---
MEAN	46.36	46.41	46.40	46.45	46.44	46.47	46.40	46.41	46.39	46.44	46.63	46.42
MAX	46.52	46.55	46.67	46.73	46.58	46.84	46.49	46.55	46.99	47.05	47.24	46.61
MIN	46.25	46.33	46.32	46.29	46.30	46.31	46.31	46.21	46.21	46.29	46.30	46.31
CAL YR 1977	MEAN 45.38		MAX 46.73	MIN 41.55								
WTR YR 1978	MEAN 46.44		MAX 47.24	MIN 46.21								

KISIMMEE 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 (6 m) downstream from bridge on U.S. Highway 98, 1.3 mi (2.1 km) upstream from mouth, and 7 mi (11 km) east of De Soto City.

DRAINAGE AREA.--379 mi² (982 km²), 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 (10.823 m) National Geodetic Vertical Datum of 1929. Prior to June 24, 1942, water-stage recorder, June 24, 1942, to Oct. 19, 1943, nonrecording gage, Oct. 20, 1943, to Oct. 10, 1954, Oct. 1, 1961, to Sept. 30, 1962, water-stage recorder, at present site and datum. Oct. 11, 1954, to Sept. 30, 1961, Oct. 1, 1962, to May 29, 1966, water-stage recorder, at site 1.6 mi (2.6 km) upstream at same datum. Oct. 11, 1954, to Sept. 30, 1961, Oct. 1, 1962, to May 29, 1966, auxiliary water-stage recorder at present site. Oct. 1, 1961, to Sept. 30, 1962, auxiliary water-stage recorder on north shore of Lake Istokpoga, near mouth of Arbuckle Creek, and May 30 to Sept. 30, 1966, water-stage recorder for station Canal 41A at S-68 at Lake Istokpoga, near Lake Placid (station 02273200) used as an auxiliary gage for this station. Since June 7, 1967, auxiliary water-stage recorder at site 1.3 mi (2.1 km) upstream.

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

AVERAGE DISCHARGE.--39 years, 340 ft³/s (9.629 m³/s), 246,300 acre-ft/yr (304 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,380 ft³/s (209 m³/s) Sept. 23, 1948, gage height, 8.71 ft (2.655 m), from rating curve extended above 5,300 ft³/s (150 m³/s); minimum daily discharge, 0.85 ft³/s (0.024 m³/s) May 9, 1975; minimum gage height, 0.14 ft (0.043 m) estimated, May 11, 1962, result of channel work upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,920 ft³/s (82.7 m³/s) Aug. 1, gage height, 6.92 ft (2.109 m); minimum daily discharge, 45 ft³/s (1.27 m³/s) June 1,2; minimum gage height, 2.04 ft (0.622 m) June 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	90	169	111	196	257	111	60	45	184	2880	401
2	116	91	144	123	181	236	107	56	45	181	2760	390
3	113	94	147	114	176	242	119	57	51	183	2230	370
4	112	82	135	96	164	298	99	64	50	179	2130	348
5	102	90	123	84	149	282	95	67	53	171	1980	354
6	93	90	161	96	161	280	92	85	67	169	1840	341
7	93	108	126	87	134	245	86	120	83	174	1760	353
8	91	88	114	70	132	251	83	101	108	191	1570	353
9	89	87	119	94	278	455	76	100	122	198	1430	340
10	87	89	121	105	308	652	78	98	122	183	1220	303
11	91	99	107	91	271	597	73	92	141	176	1100	277
12	95	95	104	46	250	489	71	86	155	170	1020	269
13	105	95	99	91	212	441	68	81	148	157	927	257
14	98	93	101	98	190	372	78	72	147	143	851	247
15	93	92	123	96	188	332	77	63	126	130	781	239
16	91	90	124	58	192	310	76	56	114	133	738	225
17	88	90	155	124	247	308	74	57	104	151	691	224
18	86	94	155	157	368	263	73	97	92	156	668	221
19	87	94	136	155	450	245	70	112	94	243	713	204
20	86	94	131	230	473	229	73	101	90	488	817	197
21	86	91	109	227	481	221	73	92	95	689	790	192
22	87	92	117	219	444	210	70	89	111	698	729	186
23	88	98	79	236	391	217	69	86	130	692	672	200
24	85	99	96	223	389	190	71	79	157	766	620	290
25	92	108	113	240	355	179	68	71	177	792	590	498
26	95	121	96	264	330	170	63	64	190	1010	544	438
27	95	111	96	266	307	154	59	71	188	952	507	358
28	94	121	115	275	306	144	61	64	194	1290	473	336
29	92	106	147	240	---	136	61	54	208	2140	454	279
30	93	147	103	222	---	124	60	53	190	2560	432	268
31	96	---	94	212	---	118	---	48	---	2550	415	---
TOTAL	2940	2939	3759	4750	7723	8647	2334	2396	3595	17899	34332	8958
MEAN	94.8	98.0	121	153	276	279	77.8	77.3	120	577	1107	299
MAX	121	147	169	275	481	652	119	120	208	2560	2880	498
MIN	85	82	79	46	132	118	59	48	45	130	415	186
AC-FT	5830	5830	7460	9420	15320	17150	4630	4750	7130	35500	68100	17770
CAL YR 1977	TOTAL	29982	MEAN	82.1	MAX	368	MIN	11	AC-FT	59470		
WTR YR 1978	TOTAL	100272	MEAN	275	MAX	2880	MIN	45	AC-FT	198900		

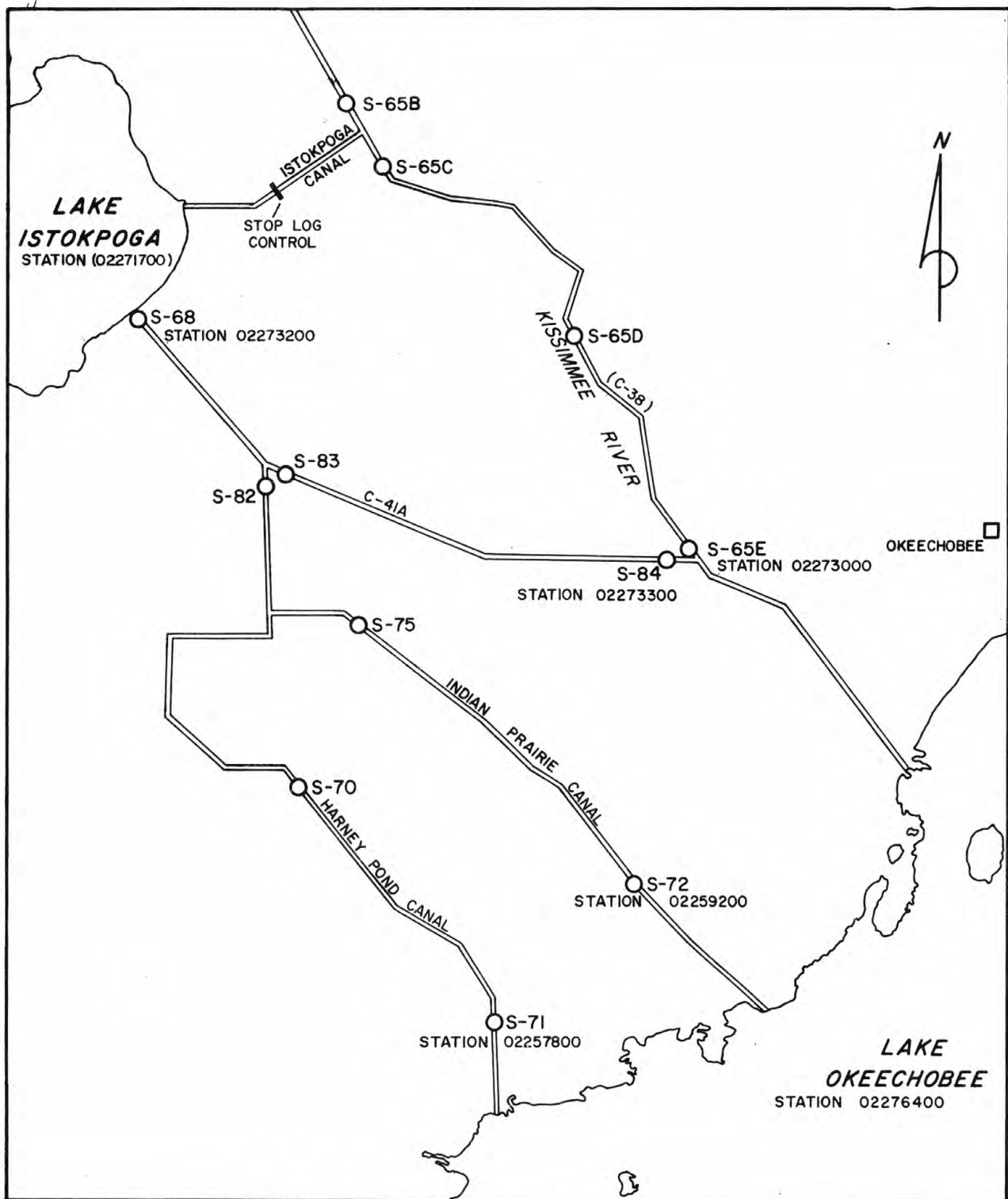


Figure 5. Diversion of flow from Lake Istokpoga through structure S-63 into C-41A, Indian Prairie and Harney Pond Canals

SOUTHERN FLORIDA

KISSIMMEE RIVER BASIN

02273000 KISSIMMEE RIVER AT 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 upstream side of lock and control structure 65E, 1.8 mi (2.9 km) downstream from State Highway 70, 8.2 mi (13.2 km) upstream from mouth, and about 8.5 mi (13.7 km) west of Okeechobee.

DRAINAGE AREA.--Indeterminate.

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.--Dual water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Apr. 28, 1949, nonrecording gage, and Apr. 28, 1949, to Sept. 30, 1964, water-stage recorder, 1.8 mi (2.9 km) upstream at datum 1.37 ft (0.418 m) 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 do not include diversions, since July 21, 1962, from Lake Istokpoga through control structure 68 on Canal 41A. Discharge computed on basis of head and gate-opening discharge relation. Records of chemical analyses for the current year are published in the section of this report entitled "Surface Water Quality Records-Daily Measurements."

COOPERATION.--Gage-height and gate-opening record furnished by South Florida Water Management District.

AVERAGE DISCHARGE.--34 years (water years 1928-62), 2,188 ft³/s (61.96 m³/s), 1,585,000 acre-ft/yr (1.95 km³/yr); 14 years (water years 1964-78), 1,408 ft³/s (39.87 m³/s), 1,020,000 acre-ft/yr (1.26 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,800 ft³/s (731 m³/s) Oct. 3, 1969; maximum gage height, 27.00 ft (8.230 m), present datum, Oct. 14, 1953; no flow on many days in some years after 1965; minimum gage height observed, 12.33 ft (3.758 m), present datum, June 3, 1962.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1928, resulting from hurricane, reached a stage of 28.9 ft (8.81 m), present datum, discharge, 20,000 ft³/s (566 m³/s), from rating curve extended above 14,000 ft³/s (396 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,500 ft³/s (354 m³/s) Aug. 1; maximum gage height, 22.20 ft (6.766 m) Aug. 10; no flow Oct. 17,18,25, June 1; minimum gage height, 20.77 ft (6.331 m) May 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	684	.30	1300	455	369	1490	415	286	.00	792	10500	394
2	606	1.2	1070	460	249	1500	444	222	289	983	11000	435
3	564	2.1	1080	282	84	1520	411	361	338	930	12200	845
4	573	294	1010	172	3.3	2080	311	935	196	1020	11200	1140
5	363	441	816	209	105	1740	481	2810	537	986	10200	1140
6	181	281	897	146	450	3150	602	3180	1680	876	9770	1500
7	49	96	833	155	569	4450	609	3330	1210	845	9410	2110
8	2.5	103	509	180	521	2560	609	3350	1900	1650	9530	2110
9	12	196	428	296	2810	4760	613	2370	2360	1560	6290	1920
10	118	196	577	352	2290	6280	622	688	1950	1240	5070	2060
11	132	105	522	244	899	6470	622	679	1430	1070	5930	2780
12	98	27	408	156	1230	6640	630	922	1430	1110	5580	1550
13	100	2.1	390	76	638	5740	630	948	1170	1320	5210	3880
14	36	2.9	352	172	329	4580	791	1010	796	1130	5730	4160
15	.88	3.5	352	277	1400	2710	1010	990	660	976	6330	832
16	1.2	3.5	586	530	2080	3060	914	922	476	903	6240	986
17	.00	3.2	1280	896	2730	3810	661	515	382	1010	5490	992
18	.00	2.9	1600	1040	3240	3820	559	616	364	1070	4530	850
19	.88	4.4	1340	1130	4050	3320	622	461	338	1790	4090	542
20	.88	4.9	1350	2910	3950	2210	616	348	297	6110	4290	426
21	1.2	5.8	1220	4720	4080	1410	594	634	207	6490	3950	472
22	2.4	4.6	1060	4770	5780	1360	601	466	693	5380	5670	472
23	1.2	3.2	698	4500	6880	1360	587	339	1240	4190	6880	800
24	.30	400	455	4250	6620	1100	632	277	3320	3220	4270	945
25	.00	323	450	4170	5860	900	638	264	4450	3190	3710	1470
26	1.2	200	625	4220	5870	900	645	264	3730	3260	3250	1600
27	1.2	235	634	4230	3230	886	614	264	2720	2690	3250	1420
28	2.1	216	540	4280	1320	522	525	267	1940	5400	2260	1030
29	1.2	549	456	3990	---	480	484	495	1610	8750	1250	707
30	.82	2070	442	2740	---	519	516	654	1100	9520	957	756
31	41	---	460	752	---	519	---	218	---	9670	783	---
TOTAL	3656.14	5776.60	23740	52760	67636.3	81846	18008	29085	38813.00	89131	184820	40324
MEAN	118	193	766	1702	2416	2640	600	938	1294	2875	5962	1344
MAX	684	2070	1600	4770	6880	6640	1010	3350	4450	9670	12200	4160
MIN	.00	.30	352	76	3.3	480	311	218	.00	792	783	394
AC-FT	7250	11460	47090	104600	134200	162300	35720	57690	76990	176800	366600	79980
CAL YR 1977	TOTAL	234617.94	MEAN	643	MAX	3660	MIN	.00	AC-FT	465400		
WTR YR 1978	TOTAL	635596.04	MEAN	1741	MAX	12200	MIN	.00	AC-FT	1261000		

SOUTHERN FLORIDA

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KISSIMMEE RIVER BASIN

02273000 KISSIMMEE RIVER AT S-65E, NEAR OKEECHOBEE, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.11	21.19	21.14	21.11	21.17	21.16	21.16	21.11	21.12	21.12	21.51	21.04
2	21.07	21.18	21.20	21.09	21.16	21.13	21.15	21.16	21.13	21.23	21.90	21.07
3	21.12	21.17	21.06	21.05	21.12	21.16	21.15	21.15	21.15	21.16	22.09	21.18
4	21.18	21.17	21.08	21.10	21.12	21.21	21.13	21.15	21.13	21.18	22.13	21.20
5	21.13	21.15	21.10	21.12	21.17	21.15	21.12	21.03	21.17	21.14	22.09	21.10
6	21.10	21.09	21.22	21.09	21.16	21.17	21.13	21.06	21.10	21.17	22.14	21.15
7	21.10	21.12	21.13	21.15	21.16	21.21	21.14	21.20	21.12	21.16	22.14	21.17
8	21.11	21.16	21.17	21.16	21.18	21.18	21.16	21.10	21.12	21.19	22.09	21.07
9	21.12	21.20	21.14	21.18	21.17	21.23	21.16	21.12	21.21	21.13	21.91	21.03
10	21.19	21.17	21.16	21.12	21.07	21.10	21.13	21.12	21.15	21.08	22.12	21.06
11	21.16	21.14	21.11	21.11	21.14	21.14	21.14	21.13	21.15	21.10	22.14	21.19
12	21.17	21.11	21.16	21.10	21.14	21.12	21.15	21.12	21.14	21.16	22.10	21.15
13	21.17	21.13	21.15	21.11	21.13	21.08	21.14	21.18	21.15	21.12	22.10	21.20
14	21.16	21.16	21.13	21.14	21.16	21.15	21.12	21.15	21.12	21.13	22.15	21.31
15	21.14	21.15	21.12	21.20	21.13	21.07	21.08	21.15	21.13	21.17	22.10	21.14
16	21.13	21.14	21.11	21.17	21.16	21.11	21.12	21.16	21.17	21.16	22.08	21.18
17	21.12	21.14	21.19	21.18	21.21	21.17	21.17	21.17	21.20	21.17	21.99	21.13
18	21.10	21.14	21.23	21.08	21.17	21.20	21.19	21.15	21.15	21.17	21.38	21.10
19	21.10	21.13	21.13	21.13	21.21	21.15	21.17	21.10	21.15	21.28	21.22	21.07
20	21.08	21.13	21.15	21.14	21.10	21.14	21.14	21.15	21.17	21.24	21.19	21.12
21	21.07	21.12	21.13	21.15	21.09	21.08	21.11	21.15	21.18	21.15	21.14	21.10
22	21.07	21.11	21.10	21.14	21.12	21.15	21.13	21.14	21.20	21.15	21.17	21.11
23	21.07	21.19	21.09	21.11	21.23	21.16	21.12	21.14	21.19	21.12	21.16	21.17
24	21.10	21.36	21.06	21.10	21.11	21.19	21.17	21.14	21.17	21.18	21.06	21.12
25	21.12	21.20	21.05	21.13	21.03	21.17	21.14	21.14	21.16	21.15	21.09	21.13
26	21.13	21.11	21.07	21.11	21.16	21.16	21.13	21.13	21.15	21.07	21.09	21.15
27	21.13	21.20	21.07	21.12	21.17	21.14	21.12	21.11	21.15	21.11	21.15	21.10
28	21.13	21.19	21.13	21.13	21.12	21.11	21.16	21.15	21.15	21.24	21.09	21.05
29	21.12	21.25	21.16	21.09	---	21.15	21.16	21.22	21.17	21.22	21.16	21.06
30	21.16	21.24	21.16	21.10	---	21.17	21.17	21.16	21.12	21.30	21.16	21.17
31	21.21	---	21.14	21.21	---	21.16	---	21.15	---	21.15	21.11	---
MEAN	21.12	21.16	21.13	21.13	21.15	21.15	21.14	21.14	21.15	21.16	21.64	21.13
MAX	21.21	21.36	21.23	21.21	21.23	21.23	21.19	21.22	21.21	21.30	22.15	21.31
MIN	21.07	21.09	21.05	21.05	21.03	21.07	21.08	21.03	21.10	21.07	21.06	21.03
CAL YR 1977	MEAN 21.05		MAX 21.36	MIN 20.26								
WTR YR 1978	MEAN 21.18		MAX 22.15	MIN 21.03								

SOUTHERN FLORIDA

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 (2.9 km) downstream from State Highway 70, 8.2 mi (13.2 km) upstream from mouth, and about 8.5 mi (13.7 km) west of Okeechobee.

DRAINAGE AREA.--Indeterminate.

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

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

COOPERATION.--Gage-height record furnished by South Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily gage height, 16.80 ft (5.121 m) Apr. 1,2, 1970; minimum daily, 10.31 ft (3.142 m) June 2, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum daily gage height, 16.55 ft (5.044 m) Sept. 13,30; minimum daily, 13.02 ft (3.968 m) Nov. 1.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.69	13.02	13.72	14.29	14.56	14.80	15.10	14.57	14.56	14.66	15.65	16.33
2	13.68	13.16	13.67	14.25	14.60	14.84	15.08	14.53	14.55	14.60	15.70	16.35
3	13.57	13.24	13.60	14.01	14.57	15.00	15.06	14.63	14.57	14.57	15.77	16.36
4	13.45	13.48	13.81	14.20	14.30	14.75	15.04	14.78	14.50	14.60	15.87	16.36
5	13.51	13.55	13.80	14.31	14.37	14.74	15.04	14.57	14.53	14.63	15.90	16.36
6	13.51	13.57	13.71	14.31	14.42	14.85	15.02	14.62	14.64	14.63	16.07	16.42
7	13.50	13.57	13.53	14.33	14.40	14.96	14.99	14.74	14.62	14.63	16.07	16.43
8	13.55	13.52	13.83	14.42	14.56	14.97	15.00	14.81	14.68	14.69	16.12	16.40
9	13.54	13.57	13.97	14.14	14.50	15.15	14.99	14.80	14.66	14.65	16.15	16.41
10	13.53	13.46	13.75	14.15	14.47	15.05	15.03	14.77	14.64	14.67	16.17	16.49
11	13.56	13.02	13.90	14.12	14.54	15.20	15.03	14.70	14.65	14.70	16.24	16.50
12	13.55	13.10	14.06	14.25	14.60	15.24	14.97	14.73	14.60	14.70	16.27	16.49
13	13.21	13.20	14.12	14.38	14.64	15.28	14.94	14.77	14.57	14.70	16.33	16.55
14	13.19	13.35	14.17	14.26	14.55	15.33	14.79	14.67	14.64	14.74	16.32	16.51
15	13.34	13.40	14.16	14.17	14.48	15.35	14.71	14.67	14.60	14.82	16.32	16.51
16	13.26	13.44	14.19	14.28	14.62	15.37	14.71	14.72	14.55	14.88	16.30	16.47
17	13.13	13.41	14.26	14.38	14.69	15.00	14.79	14.66	14.45	14.87	16.36	16.48
18	13.23	13.30	14.23	14.33	14.72	15.02	14.88	14.69	14.43	14.87	16.32	16.48
19	13.24	13.35	14.16	14.55	14.63	15.17	14.74	14.68	14.49	14.87	16.31	16.48
20	13.19	13.38	14.32	14.46	14.64	15.23	14.68	14.67	14.46	15.00	16.31	16.46
21	13.20	13.35	14.20	14.47	14.72	15.29	14.60	14.65	14.45	15.02	16.29	16.46
22	13.15	13.40	14.17	14.49	14.46	15.21	14.49	14.62	14.50	15.00	16.29	16.50
23	13.17	13.40	14.15	14.52	14.68	15.24	14.68	14.62	14.66	15.05	16.38	16.42
24	13.22	13.50	14.27	14.58	14.75	15.28	14.60	14.63	14.61	15.04	16.37	16.49
25	13.27	13.50	14.31	14.70	14.76	15.28	14.65	14.65	14.63	15.00	16.38	16.50
26	13.27	13.25	14.08	14.48	14.77	15.26	14.50	14.62	14.64	15.04	16.38	16.49
27	13.17	13.35	14.06	14.45	14.77	15.13	14.48	14.59	14.65	15.22	16.34	16.51
28	13.18	13.46	14.17	14.36	14.84	15.15	14.57	14.58	14.65	15.28	16.30	16.52
29	13.18	13.51	14.20	14.38	---	15.10	14.62	14.54	14.65	15.30	16.28	16.52
30	13.15	13.70	14.30	14.42	---	15.06	14.61	14.54	14.66	15.42	16.32	16.55
31	13.06	---	14.31	14.57	---	15.08	---	14.58	---	15.45	16.33	---
MEAN	13.34	13.38	14.04	14.36	14.59	15.11	14.81	14.66	14.58	14.88	16.20	16.46
MAX	13.69	13.70	14.32	14.70	14.84	15.37	15.10	14.81	14.68	15.45	16.38	16.55
MIN	13.06	13.02	13.53	14.01	14.30	14.74	14.48	14.53	14.43	14.57	15.65	16.33

CAL YR 1977 MEAN 13.50 MAX 14.61 MIN 12.33
WTR YR 1978 MEAN 14.70 MAX 16.55 MIN 13.02

SOUTHERN FLORIDA

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KISSIMEE 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 (10 m) from right bank, 350 ft (107 m) upstream from control structure 68 at Lake Istokpoga, and 7.5 mi (12.1 km) 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 (Corps of Engineers bench mark). Prior to Nov. 28, 1973, at same site at datum 30.00 ft (9.144 m) higher.

REMARKS.--Records good. Flow completely regulated by operation of control structure 68. Gage heights are published as elevations for Lake Istokpoga (station 02271700) in the section of this report entitled "Lake Elevations."

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

AVERAGE DISCHARGE.--14 years (water years 1964-78) 279 ft³/s (7.90 m³/s), 202,100 acre-ft/yr (249 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,500 ft³/s (127 m³/s) Sept. 6, 1965; maximum gage height, 40.23 ft (12.262 m) Dec. 10, 1969, present datum, affected by wind; no flow for many days each year; minimum gage height, 35.82 ft (10.918 m) June 17, 1971, present datum, affected by wind.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,240 ft³/s (91.8 m³/s) Aug. 2-4; maximum gage height, 40.04 ft (12.204 m) Feb. 16, affected by wind; no flow for many days; minimum gage height 37.42 ft (11.406 m) May 28, affected by wind.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	338	450	94	.00	.00	2670	.00
2	.00	20	.00	.00	.00	540	450	120	38	.00	3050	.00
3	.00	10	.00	.00	.00	176	272	120	90	.00	3240	.00
4	.00	.00	.00	.00	.00	165	59	160	90	.00	3090	.00
5	.00	.00	.00	.00	.00	270	.00	180	90	.00	2880	.00
6	.00	.00	.00	.00	118	388	.00	180	431	.00	2880	.00
7	.00	.00	.00	.00	180	450	50	180	480	.00	2770	.00
8	.00	.00	.00	.00	60	450	90	232	360	.00	2700	.00
9	.00	.00	.00	.00	300	754	90	300	480	.00	1690	.00
10	.00	.00	.00	.00	649	900	208	300	540	56	855	.00
11	.00	.00	.00	.00	630	900	270	344	540	90	1350	.00
12	.00	.00	.00	.00	630	900	269	500	777	90	1350	.00
13	.00	.00	.00	.00	215	900	300	600	900	90	1350	.00
14	.00	.00	.00	.00	.00	900	260	600	900	110	1060	.00
15	.00	.00	.00	.00	.00	900	240	600	660	120	678	.00
16	.00	.00	.00	.00	.00	948	240	600	540	120	346	.00
17	.00	.00	.00	.00	11	900	240	472	540	120	.00	.00
18	.00	.00	.00	.00	27	900	200	428	540	219	.00	.00
19	.00	.00	.00	.00	27	900	180	500	184	331	.00	.00
20	.00	.00	.00	278	27	604	180	600	.00	724	.00	.00
21	.00	.00	.00	341	1190	329	180	600	.00	1020	292	.00
22	.00	296	.00	.00	1520	270	180	600	.00	1080	1370	.00
23	.00	152	.00	.00	750	270	180	600	.00	1080	1580	.00
24	.00	.00	.00	.00	450	270	66	600	.00	1140	.00	.00
25	20	.00	.00	.00	450	270	.00	200	.00	1290	172	.00
26	30	.00	.00	296	450	270	.00	.00	.00	1350	450	.00
27	10	.00	.00	156	356	388	40	.00	.00	1350	450	.00
28	.00	.00	.00	.00	88	450	60	.00	.00	1470	160	.00
29	.00	.00	.00	.00	---	450	60	.00	.00	1530	.00	.00
30	.00	.00	.00	.00	---	450	60	.00	.00	1530	.00	.00
31	.00	---	.00	.00	---	450	---	.00	---	2100	.00	---
TOTAL	60.00	478.00	.00	1071.00	8128.00	17050	4874.00	9710.00	8180.00	17010.00	36433.00	.00
MEAN	1.94	15.9	.000	34.5	290	550	162	313	273	549	1175	.000
MAX	30	296	.00	341	1520	948	450	600	900	2100	3240	.00
MIN	.00	.00	.00	.00	.00	165	.00	.00	.00	.00	.00	.00
AC-FT	119	948	.00	2120	16120	33820	9670	19260	16230	33740	72260	.00

CAL YR 1977 TOTAL 19588.00 MEAN 53.7 MAX 600 MIN .00 AC-FT 38850
WTR YR 1978 TOTAL 102994.00 MEAN 282 MAX 3240 MIN .00 AC-FT 204300

SOUTHERN FLORIDA

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 (12 m) from left bank, 500 ft (150 m) upstream from control structure 84, and 9.5 mi (15.3 km) 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 (3.048 m) National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark).

REMARKS.--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 of structures 70, 75, 82, and 83. Discharge computed from continuous velocity record obtained from recording deflection meter.

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

AVERAGE DISCHARGE.--14 years (water years 1965-78), 196 ft³/s (5.551 m³/s), 142,000 acre-ft/yr (175 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,910 ft³/s (167 m³/s) Aug. 29, 1974; maximum daily discharge, 4,080 ft³/s (116 m³/s) Oct. 3, 1969; maximum gage height, 17.25 ft (5.258 m) June 20, 1969; no flow for many days each year; minimum gage height, 6.78 ft (2.067 m) Oct. 16, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge 2,280 ft³/s (64.6 m³/s) Aug. 1; maximum gage height, 16.02 ft (4.883 m) Aug. 3; no flow for many days; minimum gage height 12.96 ft (3.950 m) Nov. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	101	.00	.00	.00	59	.00	.00	165	2280	.00
2	.00	.00	.00	.00	.00	.00	51	.00	.00	.00	1930	.00
3	.00	.00	4.2	.00	.00	31	93	.00	.00	.00	1990	.00
4	.00	.00	30	.00	.00	.00	.00	.00	.00	.00	1860	280
5	.00	.00	265	.00	.00	.00	.00	.00	.00	.00	1670	84
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	212	1920	103
7	.00	.00	122	.00	.00	.00	.00	.00	202	.00	2110	176
8	.00	.00	.00	.00	21	51	.00	.00	185	182	1670	210
9	.00	.00	165	.00	66	179	.00	.00	195	.00	1200	62
10	.00	.00	.00	.00	.00	251	.00	79	166	142	720	.00
11	.00	.00	.00	.00	.00	254	.00	129	144	.00	836	412
12	.00	.00	178	.00	.00	195	.00	.00	338	157	913	197
13	.00	.00	.00	.00	.00	122	.00	.00	336	150	861	247
14	.00	.00	.00	.00	.00	126	.00	.00	217	.00	727	.00
15	.00	.00	.00	.00	.00	124	.00	.00	425	219	792	255
16	.00	.00	225	.00	.00	161	.00	47	209	136	211	181
17	.00	.00	.00	93	.00	177	.00	117	368	62	152	.00
18	.00	.00	76	.00	.00	117	.00	.00	432	249	145	244
19	.00	.00	.00	.00	.00	.00	.00	.00	1.3	292	154	.00
20	.00	.00	168	260	.00	92	.00	.00	.00	1280	163	262
21	.00	.00	5.0	476	104	156	.00	113	.00	1230	178	.00
22	.00	.00	.00	.00	49	.00	.00	82	141	1310	95	.00
23	.00	.00	.00	.00	196	.00	.00	.00	.00	1280	471	251
24	.00	.00	.00	.00	164	.00	.00	109	.00	1290	160	.00
25	.00	.00	.00	31	97	.00	.00	.00	.00	1380	80	205
26	.00	.00	173	.00	4.5	.00	.00	.00	.00	1320	349	115
27	.00	.00	.00	.00	124	.00	.00	.00	.00	1660	779	266
28	.00	.00	.00	.00	141	189	.00	.00	.00	1520	264	263
29	.00	.00	.00	.00	---	121	.00	.00	.00	1700	.00	.00
30	.00	.00	.00	.00	---	153	.00	.00	.00	1840	.00	270
31	.00	.00	.00	.00	---	106	---	.00	---	1900	150	---
TOTAL	.00	.00	1512.20	860.00	966.50	2605.00	203.00	676.00	3359.30	19676.00	24830.00	4083.00
MEAN	.000	.000	48.8	27.7	34.5	84.0	6.77	21.8	112	635	801	136
MAX	.00	.00	265	476	196	254	93	129	432	1900	2280	412
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	3000	1710	1920	5170	403	1340	6660	39030	49250	8100
CAL YR 1977 TOTAL	2005.93	MEAN	5.50	MAX	265	MIN	.00	AC-FT	3980			
WTR YR 1978 TOTAL	58771.00	MEAN	161	MAX	2280	MIN	.00	AC-FT	116600			

SOUTHERN FLORIDA

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KISSIMMEE RIVER BASIN

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

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.89	13.48	14.74	14.34	14.04	13.25	13.68	13.83	14.27	14.70	14.37	14.07
2	14.88	13.48	14.67	14.39	14.07	13.30	13.65	13.75	14.24	14.07	15.07	14.31
3	14.92	13.47	15.04	14.42	14.09	13.41	13.46	13.63	14.23	14.25	15.86	14.55
4	14.97	13.49	15.20	14.48	14.12	13.51	13.64	13.57	14.23	14.48	15.70	14.40
5	14.89	13.58	14.63	14.48	14.12	13.55	13.61	13.78	14.21	14.68	16.06	14.37
6	14.86	13.57	14.43	14.48	14.17	13.65	13.58	14.02	14.33	14.78	15.61	14.49
7	14.77	13.57	14.86	14.47	14.17	13.76	13.54	14.35	14.55	14.39	15.08	14.21
8	14.74	13.57	14.69	14.50	14.15	13.86	13.50	14.57	14.49	14.37	14.49	14.63
9	14.71	13.57	14.68	14.79	13.33	13.79	13.46	14.77	14.50	14.62	14.27	14.38
10	14.65	13.57	14.50	14.75	13.39	13.72	13.42	14.94	14.48	14.59	14.39	14.30
11	14.61	13.55	14.90	14.75	13.42	13.68	13.33	14.08	14.45	14.45	14.52	14.41
12	14.58	13.52	14.44	14.74	13.45	13.65	13.32	14.35	14.56	14.38	14.46	14.42
13	14.53	13.50	14.27	14.79	13.51	13.65	13.31	14.57	14.32	14.62	14.49	14.28
14	14.48	13.48	14.62	14.86	13.54	13.67	13.29	14.76	14.62	14.56	14.49	14.72
15	14.41	13.47	14.85	14.86	13.55	13.58	13.25	14.91	14.73	14.39	14.44	14.32
16	14.39	13.49	14.72	14.85	13.57	13.64	13.24	14.94	14.38	14.55	14.48	14.53
17	14.32	13.49	14.47	14.74	13.62	13.62	13.26	14.11	14.59	14.52	14.40	14.55
18	14.24	13.46	14.47	14.16	13.71	13.75	13.55	14.36	14.37	14.40	14.25	14.15
19	14.17	13.44	14.69	14.26	13.84	13.66	13.89	14.59	14.72	14.62	14.39	14.56
20	14.12	13.30	14.89	14.70	13.97	13.56	13.91	14.79	14.84	14.41	14.20	14.43
21	14.06	13.13	14.25	14.33	14.03	13.77	13.89	14.89	14.84	14.48	14.43	14.27
22	13.88	13.04	14.57	14.10	13.63	13.30	13.87	14.01	14.65	14.89	14.73	14.75
23	13.67	13.24	14.70	14.12	13.73	13.27	13.83	14.24	14.17	14.71	15.16	14.39
24	13.52	13.37	14.88	14.15	13.74	13.19	13.86	14.55	14.36	14.43	14.51	14.30
25	13.55	13.48	14.96	13.96	13.84	13.16	13.94	14.39	14.57	14.43	14.17	14.45
26	13.57	13.55	14.66	13.95	13.86	13.12	14.19	14.38	14.68	14.78	14.58	14.55
27	13.56	13.54	14.17	13.94	13.61	13.26	14.11	14.27	14.79	14.80	14.44	14.41
28	13.54	13.58	14.22	14.00	13.61	13.71	13.99	14.24	14.85	14.63	14.20	14.40
29	13.51	13.82	14.22	14.01	---	13.65	13.88	14.27	14.90	14.52	14.24	14.63
30	13.49	14.65	14.25	14.01	---	13.72	13.86	14.27	14.99	14.51	14.61	14.27
31	13.50	---	14.29	14.01	---	13.77	---	14.28	---	14.53	14.51	---
MEAN	14.26	13.52	14.61	14.40	13.78	13.55	13.64	14.34	14.53	14.53	14.66	14.42
MAX	14.97	14.65	15.20	14.86	14.17	13.86	14.19	14.94	14.99	14.89	16.06	14.75
MIN	13.49	13.04	14.17	13.94	13.33	13.12	13.24	13.57	14.17	14.07	14.17	14.07
CAL YR 1977	MEAN 14.22		MAX 15.20	MIN 13.04								
WTR YR 1978	MEAN 14.19		MAX 16.06	MIN 13.04								

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 (240 m) upstream from control structure 3, 0.8 mi (1.3 km) downstream from small tributary, 8.5 mi (13.7 km) east of Basinger, and 17 mi (27 km) upstream from mouth.

DRAINAGE AREA.--15.7 mi² (40.7 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 25.00 ft (7.620 m) National Geodetic Vertical Datum of 1929. Apr. 14, 1960, to Sept. 30, 1962, at site about 500 ft (150 m) downstream, and Oct. 1, 1962, to Sept. 30, 1966, at present site, at datum 4.10 ft (1.250 m) higher.

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

AVERAGE DISCHARGE.--23 years, 14.5 ft³/s (0.411 m³/s), 10,510 acre-ft/yr (13.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,540 ft³/s (71.9 m³/s) Oct. 15, 1956, gage height, 7.88 ft (2.402 m), datum then in use, from rating curve extended above 1,100 ft³/s (31.2 m³/s); no flow at times in most years; minimum gage height, -1.35 ft (-0.411 m), Feb. 11, 1965, datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,160 ft³/s (32.9 m³/s) Aug. 1, gage height, 10.86 ft (3.310 m); no flow May 22-28; minimum gage height, 3.31 ft (1.009 m) Sept. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	.65	29	12	3.6	4.8	1.4	.05	.06	17	978	21
2	12	.56	17	12	3.4	4.6	1.0	.08	.04	16	319	22
3	10	.47	12	11	3.4	5.4	.96	.34	.02	19	269	20
4	9.7	.47	11	10	3.2	13	.80	.52	.05	46	260	19
5	9.3	.88	12	9.3	3.0	12	.66	.80	.10	30	75	17
6	8.2	1.2	40	8.5	2.8	11	.80	.96	8.0	14	53	18
7	7.2	1.4	33	8.2	2.6	8.5	.80	5.9	18	10	56	17
8	6.2	1.4	17	7.5	2.4	7.0	.56	2.8	4.5	8.9	57	16
9	5.6	1.4	14	8.9	5.4	107	.52	1.2	4.8	8.9	75	16
10	4.8	1.2	18	8.5	7.0	98	.40	.96	11	9.3	44	16
11	4.6	1.2	14	7.5	5.6	36	.37	.66	10	11	40	24
12	4.1	1.4	12	7.2	4.8	29	.30	.44	7.0	17	30	47
13	3.2	1.4	11	7.0	4.1	22	.25	.27	5.9	11	26	43
14	2.8	1.4	11	7.5	3.8	16	.25	.18	4.1	8.9	29	31
15	2.4	1.2	11	7.2	3.4	13	.21	.12	3.0	41	44	25
16	2.0	1.0	24	6.2	3.4	12	.19	.08	2.2	27	29	25
17	1.6	1.0	56	5.9	4.1	9.3	.18	.05	1.6	18	24	24
18	1.2	.96	42	11	7.2	7.9	.14	.02	.96	15	22	26
19	1.0	.96	30	11	12	6.2	.16	.03	.80	64	28	23
20	.88	.96	22	28	12	5.9	.18	.02	.61	304	44	21
21	.72	.80	17	14	13	5.4	.16	.01	.61	163	31	19
22	.66	.88	15	11	13	4.8	.14	.00	1.4	71	24	18
23	.72	3.8	14	11	12	4.3	.12	.00	5.9	38	21	24
24	.80	14	13	9.3	9.3	3.8	.18	.00	8.2	21	21	113
25	1.4	9.7	12	7.9	7.5	3.4	.16	.00	7.5	14	21	299
26	1.2	7.0	13	7.0	6.6	3.2	.13	.00	5.9	10	20	82
27	1.0	5.1	12	5.9	5.6	3.0	.10	.00	5.4	35	18	38
28	.96	4.3	11	5.1	5.4	2.6	.08	.00	13	258	17	28
29	.80	23	11	4.6	---	2.4	.07	.08	20	268	17	21
30	.72	60	11	4.3	---	2.2	.06	.16	20	104	17	20
31	.66	---	12	3.8	---	1.8	---	.08	---	300	24	---
TOTAL	117.42	149.69	577	278.3	169.6	465.5	11.33	15.81	170.65	1978.0	2733	1133
MEAN	3.79	4.99	18.6	8.98	6.06	15.0	.38	.51	5.69	63.8	88.2	37.8
MAX	12	60	56	28	13	107	1.4	5.9	20	304	978	299
MIN	.66	.47	11	3.8	2.4	1.8	.06	.00	.02	8.9	17	16
AC-FT	233	297	1140	552	336	923	22	31	338	3920	5420	2250
CAL YR 1977 TOTAL	1379.48			MEAN 3.78	MAX 60	MIN .00	AC-FT 2740					
WTR YR 1978 TOTAL	7799.30			MEAN 21.4	MAX 978	MIN .00	AC-FT 15470					

02274000 TAYLOR CREEK NEAR BASINGER, FL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.38	5.96	6.89	6.37	6.11	6.16	6.05	5.72	5.73	6.53	10.26	3.61
2	6.36	5.91	6.63	6.36	6.10	6.15	6.03	5.75	5.71	6.52	7.25	3.64
3	6.35	5.89	6.50	6.34	6.10	6.18	6.02	5.91	5.69	6.57	6.65	3.59
4	6.35	5.89	6.43	6.32	6.09	6.52	6.00	5.96	5.72	7.09	6.79	3.52
5	6.30	5.96	6.37	6.30	6.08	6.46	5.99	6.00	5.88	6.78	4.84	3.45
6	6.27	5.99	7.02	6.28	6.07	6.34	6.00	6.02	5.76	6.48	4.47	3.47
7	6.24	6.00	6.98	6.27	6.06	6.28	6.00	6.25	3.79	6.36	4.51	3.46
8	6.21	6.00	6.63	6.25	6.05	6.23	5.97	6.12	5.10	6.33	4.49	3.40
9	6.19	6.00	6.54	6.29	6.18	6.94	5.96	6.04	6.21	6.33	4.84	3.35
10	6.16	5.99	6.67	6.28	6.23	5.22	5.93	6.02	6.38	6.34	4.27	3.37
11	6.15	5.99	6.56	6.25	6.19	5.55	5.92	5.99	6.36	6.39	4.18	3.72
12	6.13	6.00	6.48	6.24	6.16	6.77	5.89	5.94	6.27	6.53	3.92	4.36
13	6.09	6.00	6.43	6.23	6.13	6.62	5.87	5.88	6.25	6.39	3.81	4.27
14	6.07	6.00	6.40	6.25	6.12	6.51	5.87	5.83	6.18	6.33	3.89	3.96
15	6.05	5.99	6.40	6.24	6.10	6.45	5.85	5.79	6.13	7.00	4.27	3.79
16	6.03	5.98	6.76	6.21	6.10	6.40	5.84	5.75	6.09	6.73	3.88	3.77
17	6.01	5.98	7.42	6.20	6.13	6.34	5.83	5.72	6.06	6.55	3.75	3.74
18	5.99	5.97	7.16	6.41	6.25	6.30	5.81	5.69	6.02	6.50	3.65	3.79
19	5.98	5.97	6.90	6.44	6.48	6.26	5.82	5.70	6.00	7.16	3.86	3.70
20	5.96	5.97	6.73	6.86	6.38	6.25	5.83	5.69	5.98	9.50	4.28	3.61
21	5.94	5.95	6.64	6.54	6.52	6.23	5.82	5.67	5.98	6.03	3.95	3.52
22	5.93	5.96	6.58	6.40	6.51	6.21	5.81	5.65	6.05	4.77	3.73	3.50
23	5.94	6.10	6.54	6.34	6.36	6.19	5.79	5.61	6.25	4.21	3.63	3.74
24	5.98	6.54	6.51	6.30	6.30	6.17	5.83	5.58	6.31	3.88	3.61	4.76
25	6.05	6.31	6.48	6.26	6.25	6.15	5.82	5.56	6.29	3.72	3.60	7.07
26	6.04	6.23	6.52	6.23	6.22	6.14	5.80	5.54	6.25	3.59	3.57	4.95
27	6.03	6.17	6.50	6.20	6.19	6.13	5.78	5.53	6.23	4.01	3.49	4.14
28	6.02	6.14	6.44	6.17	6.18	6.11	5.76	5.51	6.44	6.84	3.43	3.87
29	6.00	6.57	6.41	6.15	---	6.10	5.74	5.65	6.60	6.94	3.41	3.68
30	5.99	7.46	6.39	6.14	---	6.09	5.73	5.82	6.60	5.32	3.44	3.67
31	5.98	---	6.38	6.12	---	6.07	---	5.76	---	6.29	3.72	---
MEAN	6.10	6.10	6.62	6.30	6.20	6.24	5.88	5.80	6.01	6.13	4.43	3.88
MAX	6.38	7.46	7.42	6.86	6.52	6.94	6.05	6.25	6.60	9.50	10.26	7.07
MIN	5.93	5.89	6.37	6.12	6.05	5.22	5.73	5.51	3.79	3.59	3.41	3.35

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 (240 m) upstream from U.S. Highway 441, 0.3 mi (0.5 km) upstream from Williamson Ditch, 3.7 mi (6.0 km) north of Okeechobee, and 9.7 mi (15.6 km) upstream from mouth at control structure 191.

DRAINAGE AREA.--62.2 mi² (161.1 km²).

PERIOD OF RECORD.--March to June 1964 (fragmentary) and July 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 (45 m) 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 (7.526 m) June 23, 1973, result of coffer dam; minimum, 12.87 ft (3.923 m), estimated, Sept. 7, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 22.43 ft (6.837 m) July 29; minimum, 18.20 ft (5.549 m) Dec. 22.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.98	18.95	18.88	18.92	19.02	18.98	18.99	19.01	19.04	19.03	19.77	18.99
2	18.96	19.05	18.97	18.95	18.88	18.92	19.12	19.06	19.08	19.02	19.52	19.03
3	19.00	19.14	18.95	18.86	19.00	18.94	18.92	18.98	19.11	19.02	19.38	18.98
4	18.94	18.83	18.95	18.87	18.77	18.98	18.87	18.92	19.15	19.05	19.62	19.00
5	19.05	18.97	18.98	18.92	18.93	18.92	18.98	19.02	18.88	18.95	19.11	19.00
6	18.92	18.91	19.08	19.00	18.91	18.96	19.10	19.08	19.12	19.01	19.04	18.99
7	18.98	18.96	19.10	18.90	18.86	18.99	18.96	18.96	19.07	18.99	19.04	18.94
8	18.95	18.93	18.99	19.02	19.12	18.95	18.78	18.96	19.06	19.02	19.02	18.93
9	19.15	18.80	18.94	18.96	18.87	19.11	18.88	18.93	18.92	18.93	19.03	18.94
10	18.84	18.93	18.93	18.85	18.92	19.43	18.98	19.10	19.14	19.02	19.03	18.94
11	19.02	19.01	18.93	18.92	18.93	19.16	19.06	18.97	18.88	19.01	18.98	19.06
12	18.93	19.10	18.97	18.98	19.00	19.00	19.12	18.82	18.96	19.02	19.00	19.28
13	18.82	18.87	18.93	18.95	18.90	19.00	19.03	18.90	18.99	19.00	19.02	19.22
14	18.91	18.77	18.94	18.92	19.01	18.99	18.73	18.95	19.00	18.98	18.99	19.08
15	19.02	18.87	18.96	18.87	18.88	18.97	18.81	19.01	18.92	19.02	19.11	18.97
16	19.11	18.98	19.00	18.94	18.96	18.97	18.87	19.07	19.07	19.03	19.05	18.96
17	18.90	19.07	19.32	18.92	18.88	18.86	18.93	19.12	19.17	18.96	19.04	18.98
18	18.80	19.03	19.08	18.94	19.02	18.93	18.97	18.96	19.02	18.98	18.97	18.96
19	18.88	18.73	19.01	19.03	18.98	18.98	19.05	18.86	18.83	19.02	19.03	18.92
20	18.95	18.84	18.97	18.94	18.90	19.02	18.84	18.94	18.89	19.66	19.07	18.99
21	19.04	18.94	18.95	18.97	18.95	18.99	19.03	19.00	18.98	19.27	19.01	19.00
22	19.10	19.05	19.33	18.98	18.92	18.90	18.90	19.05	18.95	19.07	19.01	18.94
23	18.90	19.02	18.94	18.96	18.92	19.06	18.98	19.08	19.00	19.06	18.99	18.98
24	18.83	19.00	18.88	18.95	18.94	18.87	18.94	19.11	19.03	18.97	19.03	19.04
25	19.02	18.91	18.98	18.98	19.15	19.14	18.89	18.93	19.01	18.96	18.98	19.56
26	19.00	18.92	18.90	18.94	19.05	18.85	19.02	18.72	19.01	18.97	19.00	19.23
27	18.85	19.05	18.94	18.91	19.05	19.06	18.92	18.77	19.04	19.06	19.02	19.02
28	18.98	18.86	18.95	18.90	18.94	18.93	18.78	18.82	19.03	19.86	18.97	18.98
29	19.12	19.05	18.93	18.90	---	18.96	18.87	18.89	18.99	20.93	19.02	18.97
30	18.90	19.14	18.89	18.92	---	18.92	18.94	18.95	18.98	19.23	19.00	18.94
31	18.84	---	18.88	18.92	---	18.82	---	18.99	---	19.10	19.03	---
MEAN	18.96	18.96	18.98	18.94	18.95	18.99	18.94	18.97	19.01	19.14	19.09	19.03
MAX	19.15	19.14	19.33	19.03	19.15	19.43	19.12	19.12	19.17	20.93	19.77	19.56
MIN	18.80	18.73	18.88	18.85	18.77	18.82	18.73	18.72	18.83	18.93	18.97	18.92

CAL YR 1977 MEAN 18.95 MAX 19.38 MIN 18.03
WTR YR 1978 MEAN 19.00 MAX 20.93 MIN 18.72

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 02090102, near right bank 125 ft (40 m) upstream from control structure 7,450 ft (135 m) upstream from mouth, and 3.6 mi (5.8 km) north of Okeechobee.

DRAINAGE AREA.--35.4 mi² (91.7 km²).

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 (40 m) downstream at same datum.

REMARKS.--Records good. Flow regulated at times by stoplog control 2 mi (3 km) upstream.

AVERAGE DISCHARGE.--14 years, 33.2 ft³/s (0.940 m³/s), 12.74 in/yr (324 mm/yr), 24,050 acre-ft/yr (29.7 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,100 ft³/s (31.2 m³/s) Aug. 28, 1964, gage height, 23.12 ft (7.047 m); maximum gage height, 23.62 ft (7.199 m) July 18, 1974, backwater from Taylor Creek; no flow for part of each day May 21, 24, 26, 27, June 1-3, 1965; minimum gage height after completion of weir in April 1964, 19.36 ft (5.901 m) May 28, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 435 ft³/s (12.3 m³/s) July 29; maximum gage height, 22.53 ft (6.867 m) July 29; minimum daily, 0.74 ft³/s (0.021 m³/s) June 3, gage height, 19.38 ft (5.907 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	2.1	71	6.1	3.9	4.2	4.6	1.2	1.2	27	138	128
2	7.7	2.4	37	5.7	3.9	4.2	3.9	1.9	.94	42	100	76
3	7.6	2.7	25	5.4	3.6	7.3	3.9	5.7	.74	27	103	61
4	12	3.0	15	5.0	3.6	20	3.9	3.6	2.5	17	76	119
5	8.6	7.7	11	4.6	3.6	14	3.3	2.7	11	11	39	95
6	6.5	5.0	89	4.2	3.9	9.1	2.7	3.6	16	9.1	20	58
7	5.4	3.0	130	3.9	3.6	7.3	3.0	30	14	14	13	33
8	4.6	2.1	68	3.9	3.6	5.7	2.7	15	9.6	14	9.6	20
9	3.9	1.8	44	6.5	6.5	84	2.7	6.1	6.5	15	11	14
10	3.6	1.8	54	6.9	9.1	304	2.7	3.9	4.2	22	10	11
11	3.0	1.6	37	5.4	7.7	195	1.6	2.7	3.3	157	14	71
12	2.4	1.6	25	4.6	6.5	87	1.6	1.8	3.0	114	8.1	363
13	2.4	1.6	18	6.5	5.4	55	1.8	1.6	4.2	55	7.3	288
14	2.4	1.6	17	17	5.0	31	1.8	1.4	3.6	35	43	163
15	2.1	1.4	18	12	5.4	15	1.6	1.2	2.7	56	291	87
16	2.1	1.6	23	9.1	5.7	5.4	1.8	1.2	1.8	45	170	96
17	1.8	1.6	115	8.1	7.7	6.5	2.4	1.2	1.4	26	110	70
18	1.8	2.1	107	7.3	10	6.9	3.8	1.6	1.2	20	71	80
19	1.8	2.7	68	7.7	25	6.5	10	2.4	1.2	26	67	48
20	1.8	2.7	43	24	18	5.7	6.5	1.6	1.2	159	83	34
21	1.8	2.7	32	23	23	4.6	7.7	1.2	1.2	126	51	24
22	1.8	2.7	26	15	25	4.6	3.9	1.2	2.4	79	30	23
23	2.1	3.0	16	12	16	3.9	2.1	1.2	44	73	29	88
24	2.7	11	13	10	12	3.6	3.6	1.4	102	47	93	83
25	3.0	7.7	11	9.1	9.1	3.3	3.6	1.4	59	29	58	274
26	3.0	5.0	11	7.3	7.3	3.3	2.4	1.6	22	19	32	184
27	3.0	3.3	11	6.1	6.1	4.6	1.8	2.1	15	37	18	90
28	2.7	3.0	8.6	5.0	5.0	5.0	1.6	2.7	22	345	11	58
29	2.4	34	7.7	4.6	---	5.4	1.4	2.4	18	435	10	41
30	2.4	142	6.5	4.2	---	4.6	1.2	1.8	37	157	73	34
31	2.1	---	6.1	3.9	---	4.6	---	1.2	---	87	195	---
TOTAL	118.5	264.5	1163.9	254.1	245.2	921.3	95.6	108.6	412.68	2325.1	1984.0	2814
MEAN	3.82	8.82	37.5	8.20	8.76	29.7	3.19	3.50	13.8	75.0	64.0	93.8
MAX	12	142	130	24	25	304	10	30	102	435	291	363
MIN	1.8	1.4	6.1	3.9	3.6	3.3	1.2	1.2	.74	9.1	7.3	11
AC-FT	235	525	2310	504	486	1830	190	215	819	4610	3940	5580
CAL YR 1977 TOTAL	5064.58			MEAN 13.9	MAX 360	MIN .54	AC-FT 10050					
WTR YR 1978 TOTAL	10707.68			MEAN 29.3	MAX 435	MIN .74	AC-FT 21240					

TAYLOR CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTH

02274500 TAYLOR CREEK ABOVE OKEECHOBEE, FL

LOCATION.--Lat 27°17'03", long 80°49'20", in NW¼ sec.3, T.37 S., R.35 E., Okeechobee County, Hydrologic Unit 03090102, near center of channel, on downstream side of county bridge 0.8 mi (1.3 km) downstream from Williamson Ditch, 2.8 mi (4.5 km) north of Okeechobee, and 8.7 mi (14.0 km) upstream from mouth at control structure 191.

DRAINAGE AREA.--98.7 mi² (255.6 km²).

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

GAGE.--Water-stage recorder and deflection meter recorder. Datum of gage is 8.22 ft (2.505 m) National Geodetic Vertical Datum of 1929. Prior to Sept. 15, 1962, at datum 10.00 ft (3.048 m) higher. Mar. 9 to June 24, 1964, supplementary nonrecording gage and June 25, 1964 to Aug. 26, 1973, supplementary water-stage recorder, at site on Taylor Creek above S-1, 1.1 mi (1.7 km) upstream from base gage and 0.3 mi (0.5 km) upstream from Williamson Ditch. Mar. 9 to June 22, 1964, supplementary nonrecording gage and June 23, 1964 to Aug. 26, 1973, supplementary water-stage recorder, at site on Williamson Ditch at S-7.

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

AVERAGE DISCHARGE.--23 years, 96.7 ft³/s (2.739 m³/s), 70,060 acre-ft/yr (86.4 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,930 ft³/s (196 m³/s) Oct. 16, 1956, gage height, 9.20 ft (2.804 m), datum then in use; no flow at times in some years; minimum gage height, 2.57 ft (0.783 m) Dec. 1, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,100 ft³/s (31.2 m³/s) July 29; maximum gage height, 14.03 ft (4.276 m) July 29; no flow for many days; minimum gage height, 9.87 ft (3.008 m) Dec. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	.00	246	20	.00	.00	.00	6.6	.00	46	650	146
2	52	.00	143	29	14	21	.00	10	.00	55	580	109
3	19	.00	88	.00	.00	24	14	49	.00	63	540	40
4	19	12	67	16	24	59	.00	1.6	.00	41	750	109
5	10	.00	25	15	.00	31	.00	1.6	27	94	439	70
6	.00	12	293	.00	11	27	.00	40	22	16	266	85
7	15	.00	415	14	.00	31	4.8	131	30	22	166	65
8	.00	11	203	17	1.7	14	.00	64	.00	.00	86	50
9	.00	.00	134	.00	11	287	.00	.00	30	16	235	70
10	12	.00	153	17	31	730	.00	.00	.00	24	94	50
11	.00	.00	111	16	25	475	.00	15	30	146	128	283
12	12	.00	80	.00	.00	282	.00	.00	28	116	59	341
13	.00	11	43	19	40	209	15	.00	.00	65	90	221
14	.00	.00	69	37	.00	109	.00	.00	30	55	67	153
15	.00	.00	34	17	14	50	.00	.00	.00	112	230	110
16	.00	.00	188	19	.00	24	.00	.00	.00	71	170	90
17	11	.00	645	17	56	23	.00	.00	.00	48	160	80
18	.00	13	451	36	22	26	11	15	35	33	140	70
19	.00	.00	286	34	22	5.4	.00	.00	.00	112	126	60
20	.00	.00	195	123	53	30	11	.00	.00	240	299	50
21	.00	.00	110	95	64	.00	.00	.00	.00	180	198	40
22	.00	.00	114	91	69	52	17	.00	18	110	57	60
23	11	13	53	30	27	38	.00	.00	94	95	58	109
24	.00	46	52	40	32	.00	29	.00	151	90	121	177
25	.00	25	37	30	26	16	.00	25	114	85	100	700
26	12	14	48	8.8	2.2	.00	.00	.00	36	80	70	400
27	.00	12	50	15	38	.00	23	.00	29	250	50	200
28	.00	.00	31	17	11	16	.00	.00	38	860	30	139
29	.00	110	21	15	---	.00	.00	.00	53	1100	25	70
30	9.9	518	20	.00	---	30	.00	.00	46	903	149	60
31	.00	---	20	17	---	.00	---	.00	---	779	321	---
TOTAL	193.90	797.00	4425	804.80	593.90	2609.40	124.80	358.80	811.00	5907.00	6454	4207
MEAN	6.25	26.6	143	26.0	21.2	84.2	4.16	11.6	27.0	191	208	140
MAX	52	518	645	123	69	730	29	131	151	1100	750	700
MIN	.00	.00	20	.00	.00	.00	.00	.00	.00	.00	25	40
AC-FT	385	1580	8780	1600	1180	5180	248	712	1610	11720	12800	8340
CAL YR 1977	TOTAL	12966.50	MEAN	35.5	MAX	852	MIN	.00	AC-FT	25720		
WTR YR 1978	TOTAL	27286.60	MEAN	74.8	MAX	1100	MIN	.00	AC-FT	54120		

TAYLOR CREEK BASIN AND INFLOW TO LAKE OKEECHOBEE FROM NORTH

02274500 TAYLOR CREEK ABOVE OKEECHOBEE, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.70	10.66	10.64	10.64	10.73	10.77	10.69	10.73	10.74	10.75	10.80	10.65
2	10.67	10.76	10.65	10.67	10.59	10.63	10.84	10.78	10.76	10.72	10.76	10.63
3	10.70	10.85	10.65	10.54	10.72	10.62	10.64	10.70	10.80	10.69	10.71	10.60
4	10.67	10.54	10.64	10.58	10.50	10.67	10.58	10.63	10.84	10.78	10.78	10.67
5	10.77	10.70	10.68	10.62	10.65	10.62	10.70	10.74	10.58	10.72	10.71	10.69
6	10.62	10.62	10.70	10.69	10.60	10.67	10.81	10.81	10.81	10.69	10.66	10.68
7	10.69	10.68	10.69	10.60	10.57	10.70	10.68	10.68	10.67	10.68	10.69	10.65
8	10.64	10.65	10.64	10.72	10.83	10.65	10.49	10.67	10.74	10.72	10.68	10.66
9	10.85	10.51	10.64	10.67	10.58	10.73	10.60	10.64	10.61	10.62	10.69	10.66
10	10.53	10.65	10.62	10.56	10.65	10.74	10.69	10.81	10.66	10.75	10.67	10.67
11	10.72	10.74	10.63	10.62	10.64	10.73	10.77	10.70	10.61	10.70	10.61	10.74
12	10.69	10.82	10.65	10.70	10.71	10.66	10.84	10.53	10.69	10.69	10.75	10.79
13	10.53	10.57	10.64	10.66	10.61	10.67	10.75	10.62	10.69	10.68	10.72	10.75
14	10.64	10.49	10.63	10.63	10.72	10.70	10.46	10.67	10.74	10.75	10.61	10.75
15	10.74	10.60	10.66	10.58	10.60	10.67	10.53	10.72	10.63	10.67	10.70	10.73
16	10.83	10.69	10.65	10.64	10.68	9.88	10.55	10.78	10.79	10.69	10.71	10.74
17	10.61	10.79	10.73	10.64	10.61	10.09	10.61	10.82	10.90	10.66	10.69	10.76
18	10.52	10.73	10.66	10.66	10.73	10.64	10.65	10.68	10.76	10.71	10.71	10.69
19	10.60	10.46	10.67	10.74	10.69	10.69	10.74	10.57	10.52	10.70	10.72	10.75
20	10.68	10.56	10.63	10.61	10.62	10.74	10.55	10.65	10.58	10.93	10.72	10.68
21	10.76	10.66	10.66	10.65	10.67	10.67	10.70	10.71	10.66	10.72	10.65	10.71
22	10.82	10.77	11.03	10.67	10.61	10.63	10.59	10.76	10.67	10.67	10.71	10.68
23	10.63	10.74	10.64	10.69	10.63	10.77	10.62	10.80	10.69	10.75	10.68	10.77
24	10.54	10.67	10.60	10.66	10.69	10.57	10.63	10.83	10.75	10.68	10.74	10.74
25	10.74	10.61	10.67	10.68	10.91	10.84	10.54	10.65	10.68	10.69	10.71	10.84
26	10.69	10.62	10.59	10.66	10.75	10.54	10.69	10.45	10.71	10.69	10.66	10.81
27	10.57	10.75	10.66	10.64	10.80	10.77	10.65	10.50	10.74	10.77	10.72	10.75
28	10.72	10.58	10.67	10.63	10.68	10.62	10.44	10.55	10.72	11.38	10.64	10.71
29	10.84	10.74	10.66	10.63	---	10.67	10.51	10.62	10.71	12.52	10.75	10.71
30	10.59	10.72	10.62	10.65	---	10.65	10.58	10.68	10.67	10.73	10.64	10.63
31	10.56	---	10.61	10.65	---	10.52	---	10.71	---	10.68	10.67	---
MEAN	10.67	10.66	10.66	10.64	10.67	10.63	10.64	10.68	10.71	10.79	10.70	10.71
MAX	10.85	10.85	11.03	10.74	10.91	10.84	10.84	10.83	10.90	12.52	10.80	10.84
MIN	10.52	10.46	10.59	10.54	10.50	9.88	10.44	10.45	10.52	10.62	10.61	10.60
CAL YR 1977	MEAN 10.65		MAX 11.11		MIN 9.72							
WTR YR 1978	MEAN 10.68		MAX 12.52		MIN 9.88							

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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

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 (10.1 km) southwest of Stuart.

DRAINAGE AREA.--Indeterminate.

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 Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by 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 (3.1 km) upstream, NGVD.

REMARKS.--Flow regulated by lock near Stuart.

COOPERATION.--Records furnished by Corps of Engineers.

AVERAGE DISCHARGE.--26 years, 951 ft³/s (26.9 m³/s), 688,500 acre-ft/yr (849 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 11,500 ft³/s (326 m³/s) Mar. 26, 1970; lock closed and flow consists of leakage and lockage estimated as 4.0 ft³/s (0.11 m³/s) many days during 1976.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,530 ft³/s (100 m³/s) Aug. 23 maximum gage height, 16.11 ft (4.910 m) Aug. 1; minimum daily discharge, 12 ft³/s (0.34 m³/s) for many days; minimum gage height, 12.87 ft (3.923 m) Oct. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	18	18	20	20	20	18	18	12	2330	254	12
2	12	18	18	20	20	20	18	18	12	2330	823	12
3	12	18	18	20	20	20	18	18	12	2310	590	12
4	12	18	18	20	20	20	18	18	12	2290	157	181
5	12	18	18	20	20	20	18	18	12	2270	362	68
6	12	18	18	20	20	20	18	18	12	2280	450	714
7	12	18	18	20	20	20	18	18	12	2360	320	369
8	12	18	18	20	20	20	18	18	12	2420	1090	198
9	12	18	18	20	20	20	18	18	12	2380	2540	241
10	12	18	18	20	20	20	18	18	12	1200	1360	109
11	12	18	18	20	20	20	18	18	12	12	690	306
12	12	18	18	20	20	20	18	18	12	12	1520	539
13	12	18	18	20	20	20	18	18	12	12	1520	395
14	12	18	18	20	20	20	18	18	12	12	2040	497
15	12	18	18	20	20	20	18	18	12	12	2560	371
16	12	18	18	20	20	20	18	18	12	12	2560	514
17	12	18	18	20	20	20	18	18	12	12	2540	327
18	12	18	18	20	20	20	18	18	12	12	2540	286
19	12	18	18	20	20	20	18	18	1700	12	2560	317
20	12	18	18	20	20	20	18	18	2420	12	2570	286
21	12	18	18	20	20	20	18	18	2440	12	2560	270
22	12	18	18	20	20	20	18	18	2490	12	2520	249
23	12	18	18	20	20	20	18	18	2510	12	3530	183
24	12	18	18	20	20	20	18	18	2520	12	2590	127
25	12	18	18	20	20	20	18	18	2520	12	2580	278
26	12	18	18	20	20	20	18	18	2520	12	2520	336
27	12	18	18	20	20	20	18	18	2520	12	2520	336
28	12	18	18	20	20	20	18	18	2570	12	2510	119
29	12	18	18	20	---	20	18	18	2570	12	1250	12
30	12	18	18	20	---	20	18	18	2550	12	12	220
31	12	---	18	20	---	20	---	18	---	12	12	---
TOTAL	372	540	558	620	560	620	540	558	29546	22422	51650	7884
MEAN	12.0	18.0	18.0	20.0	20.0	20.0	18.0	18.0	985	723	1666	263
MAX	12	18	18	20	20	20	18	18	2570	2420	3530	714
MIN	12	18	18	20	20	20	18	18	12	12	12	12
AC-FT	738	1070	1110	1230	1110	1230	1070	1110	58600	44470	102400	15640

CAL YR 1977	TOTAL	26802	MEAN	73.4	MAX	1040	MIN	12	AC-FT	53160
WTR YR 1978	TOTAL	115870	MEAN	317	MAX	3530	MIN	12	AC-FT	229800

SOUTHERN FLORIDA

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 (0.3 km) downstream from State Highway 706, 1.3 mi (2.1 km) upstream from Sunshine State Parkway, and 5.2 mi (8.4 km) west of Jupiter.

DRAINAGE AREA.--Indeterminate.

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. This station provides information on the freshwater inflow to the Loxahatchee estuary from the headwaters area.

AVERAGE DISCHARGE.--7 years, 50.8 ft³/s (1.44 m³/s), 36,780 acre-ft/yr (45.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge 975 ft³/s (27.6 m³/s) Oct. 9, 1974; maximum gage height, 14.51 ft (4.423 m) May 12, 13, 1972; no flow on May 4-7, 1974; minimum gage height, 8.92 ft (2.719 m) May 1-7, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge 271 ft³/s (7.68 m³/s) Aug. 1; maximum gage height, 12.53 ft (3.819 m) Aug 1; minimum daily discharge, 0.2 ft³/s (0.006 m³/s) May 17; minimum gage height, 9.01 ft (2.746 m) May 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	52	50	64	105	85	47	24	26	52	216	81
2	95	51	53	66	107	81	43	24	26	44	237	89
3	91	49	54	65	107	84	42	26	27	38	157	98
4	87	47	54	67	107	89	42	25	30	34	99	104
5	81	47	54	67	104	89	41	25	43	31	77	123
6	79	48	57	67	102	88	40	25	72	31	107	120
7	82	46	61	69	102	87	38	24	104	48	98	104
8	85	45	60	71	99	86	28	23	108	132	98	95
9	85	44	62	87	99	98	25	21	105	102	80	95
10	85	43	70	113	101	112	24	20	99	91	60	92
11	82	43	67	107	96	112	24	19	92	66	51	92
12	79	42	65	79	96	107	31	18	86	60	46	91
13	76	42	67	78	96	104	34	8.6	95	56	44	89
14	74	42	71	78	95	104	34	2.9	96	72	44	87
15	73	41	74	74	91	104	33	1.2	91	75	48	86
16	73	41	82	73	89	99	32	.60	84	99	77	89
17	71	42	107	76	92	98	31	.20	79	112	86	91
18	71	42	94	76	94	94	31	.40	74	165	82	101
19	70	42	78	91	92	88	31	4.6	71	235	85	98
20	70	41	72	157	92	85	30	8.2	71	197	87	91
21	67	40	68	123	94	82	28	9.7	47	130	84	88
22	68	40	72	105	96	80	24	24	46	86	87	89
23	69	42	68	99	98	76	19	28	69	75	84	91
24	66	48	65	99	95	60	16	21	105	67	91	89
25	65	51	64	96	94	56	14	16	154	54	98	95
26	65	51	62	107	92	58	13	16	163	48	91	102
27	64	50	60	105	89	67	9.7	16	206	56	86	94
28	62	49	58	104	87	68	7.1	17	142	60	85	89
29	60	49	56	105	---	68	7.3	19	95	110	82	86
30	59	50	56	105	---	67	23	20	42	183	81	86
31	58	---	58	105	---	62	---	24	---	149	79	---
TOTAL	2311	1360	2039	2778	2711	2638	842.1	511.40	2548	2758	2827	2825
MEAN	74.5	45.3	65.8	89.6	96.8	85.1	28.1	16.5	84.9	89.0	91.2	94.2
MAX	99	52	107	157	107	112	47	28	206	235	237	123
MIN	58	40	50	64	87	56	7.1	.20	26	31	44	81
AC-FT	4580	2700	4040	5510	5380	5230	1670	1010	5050	5470	5610	5600
CAL YR 1977	TOTAL	19020.00	MEAN	52.1	MAX	628	MIN	11	AC-FT	37730		
WTR YR 1978	TOTAL	26148.50	MEAN	71.6	MAX	237	MIN	.20	AC-FT	51870		

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

02277600 LOXAHATCHEE RIVER NEAR JUPITER, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.58	11.04	11.13	11.25	11.62	11.47	10.90	10.10	10.17	11.03	12.25	11.36
2	11.55	11.02	11.18	11.27	11.63	11.44	10.80	10.08	10.17	10.83	12.35	11.43
3	11.52	10.99	11.19	11.26	11.63	11.46	10.77	10.16	10.19	10.62	11.93	11.49
4	11.49	10.94	11.19	11.28	11.63	11.52	10.75	10.13	10.34	10.47	11.57	11.53
5	11.44	10.96	11.17	11.28	11.61	11.52	10.74	10.13	10.80	10.38	11.38	11.65
6	11.42	10.99	11.22	11.29	11.60	11.50	10.71	10.13	11.35	10.35	11.61	11.63
7	11.45	10.96	11.29	11.31	11.60	11.49	10.63	10.09	11.61	10.92	11.55	11.53
8	11.47	10.95	11.27	11.33	11.58	11.48	10.25	10.05	11.64	11.78	11.54	11.47
9	11.47	10.94	11.28	11.49	11.58	11.57	10.13	9.96	11.62	11.60	11.40	11.47
10	11.47	10.93	11.37	11.67	11.59	11.66	10.08	9.92	11.58	11.52	11.15	11.44
11	11.45	10.93	11.33	11.63	11.56	11.66	10.10	9.88	11.53	11.27	10.96	11.44
12	11.42	10.92	11.29	11.42	11.56	11.63	10.38	9.81	11.48	11.07	10.84	11.43
13	11.39	10.93	11.30	11.41	11.56	11.61	10.46	9.40	11.55	11.10	10.82	11.42
14	11.37	10.93	11.34	11.41	11.55	11.61	10.46	9.14	11.56	11.34	10.78	11.40
15	11.36	10.94	11.37	11.37	11.52	11.61	10.45	9.06	11.52	11.38	10.89	11.39
16	11.36	10.95	11.45	11.36	11.51	11.58	10.41	9.03	11.46	11.58	11.35	11.42
17	11.33	10.99	11.63	11.39	11.53	11.57	10.38	9.01	11.42	11.66	11.42	11.43
18	11.33	11.00	11.54	11.39	11.54	11.54	10.36	9.02	11.37	11.97	11.39	11.50
19	11.32	11.01	11.41	11.52	11.53	11.50	10.38	9.22	11.33	12.35	11.40	11.48
20	11.32	10.99	11.34	11.93	11.53	11.47	10.34	9.38	11.19	12.15	11.42	11.43
21	11.29	10.96	11.30	11.73	11.54	11.45	10.25	9.45	10.63	11.77	11.39	11.41
22	11.30	10.94	11.34	11.62	11.56	11.43	10.08	10.09	10.73	11.48	11.42	11.42
23	11.31	10.98	11.30	11.58	11.57	11.39	9.85	10.25	11.24	11.38	11.39	11.43
24	11.27	11.15	11.26	11.58	11.55	11.18	9.73	9.95	11.55	11.29	11.45	11.43
25	11.26	11.21	11.24	11.56	11.54	11.11	9.65	9.73	11.85	11.05	11.50	11.47
26	11.26	11.20	11.21	11.63	11.53	11.13	9.58	9.75	11.90	10.92	11.45	11.50
27	11.25	11.17	11.17	11.62	11.51	11.29	9.45	9.72	12.20	11.10	11.41	11.46
28	11.22	11.13	11.14	11.61	11.49	11.30	9.33	9.78	11.84	11.19	11.40	11.44
29	11.18	11.13	11.11	11.62	---	11.30	9.34	9.88	11.55	11.65	11.38	11.41
30	11.16	11.13	11.11	11.62	---	11.29	10.05	9.89	10.76	12.07	11.36	11.41
31	11.13	---	11.15	11.62	---	11.22	---	10.10	---	11.88	11.34	---
MEAN	11.36	11.01	11.28	11.49	11.56	11.45	10.23	9.75	11.27	11.33	11.40	11.46
MAX	11.58	11.21	11.63	11.93	11.63	11.66	10.90	10.25	12.20	12.35	12.35	11.65
MIN	11.13	10.92	11.11	11.25	11.49	11.11	9.33	9.01	10.17	10.35	10.78	11.36

CAL YR 1977 MEAN 11.14 MAX 13.34 MIN 9.72
WTR YR 1978 MEAN 11.13 MAX 12.35 MIN 9.01

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

265916080083500 LOXAHATCHEE RIVER NEAR HOBE SOUND, FL

LOCATION.--Lat 26°59'16", long 80°08'35", in SE¼ sec.16, T.40 S., R.42 E., Martin County, Hydrologic Unit 03090202, on left bank in Jonathan Dickinson State Park, 3.2 mi (5.1 km) downstream from Kicthing Creek, and 5.2 mi (8.4 km) south of Hobe Sound.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1976 to current year (gage heights).

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

REMARKS.--Gage records water levels and tidal fluctuations. The stage record published is the maximum and minimum tide event for each calendar day.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 2.69 ft (0.820 m) Dec. 12, 1977; minimum, -1.54 ft (-0.469 m) Feb. 5, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 2.69 ft (0.820 m) Dec. 12; minimum, -1.28 (0.390 m) Aug. 15.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
TIDAL HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.91	2.50	1.43	1.52	1.05	1.62	1.67	1.54	1.55	1.58	1.47	1.45
2	1.81	2.66	1.38	1.63	1.24	1.79	1.40	1.61	1.54	1.48	1.57	1.55
3	1.75	2.54	1.33	1.73	1.40	1.94	1.33	1.72	1.52	1.40	1.67	1.60
4	1.79	2.32	1.51	1.91	1.69	1.93	1.24	1.56	1.47	1.36	1.66	1.45
5	1.76	2.15	1.38	1.76	2.11	1.96	1.43	1.30	1.45	1.39	1.49	1.40
6	1.74	2.00	1.36	1.72	2.32	2.02	1.44	1.45	1.41	1.43	1.26	1.48
7	1.66	2.06	1.46	1.81	2.21	2.05	1.43	1.64	1.12	1.18	1.32	1.35
8	1.65	2.11	1.89	1.88	2.17	1.86	1.57	1.57	1.47	1.66	1.30	1.20
9	1.65	2.17	2.04	1.43	2.21	1.99	1.52	1.09	1.36	1.90	1.29	1.30
10	1.65	2.26	1.90	1.59	2.28	1.83	1.18	1.39	1.29	1.85	1.46	1.40
11	1.64	2.29	2.29	1.71	2.36	1.87	1.35	1.52	1.17	1.65	1.34	1.35
12	2.02	2.57	2.69	1.75	2.00	1.60	1.12	1.44	1.38	1.30	1.20	1.40
13	2.10	2.66	2.41	1.66	1.66	1.67	1.18	1.20	1.65	1.35	1.09	1.60
14	2.60	2.49	2.11	1.37	1.33	1.52	1.13	1.16	1.72	1.45	1.31	1.85
15	2.47	2.41	1.69	1.07	1.23	1.34	1.13	1.08	1.52	1.48	1.43	2.10
16	1.97	2.10	1.66	.98	1.57	1.09	1.19	1.01	1.70	1.55	1.66	2.25
17	1.85	1.70	1.64	.95	1.45	.89	1.37	1.02	1.80	1.65	1.85	2.35
18	1.69	1.58	1.57	.83	1.65	.99	1.36	1.06	2.03	1.75	1.90	2.25
19	1.59	1.72	1.74	1.19	1.72	1.15	1.35	1.50	2.01	1.83	2.04	2.10
20	1.54	1.88	1.90	1.12	1.75	1.29	1.44	1.84	2.05	1.96	1.93	1.70
21	1.52	2.06	1.89	.87	1.65	1.42	1.81	1.84	2.06	1.73	1.75	1.55
22	1.69	1.91	1.87	1.19	1.45	1.49	1.92	1.72	1.64	2.00	1.65	1.35
23	1.68	1.89	1.69	1.31	1.50	1.81	2.03	1.22	2.07	1.77	1.58	1.26
24	2.09	1.88	1.77	1.52	1.54	1.80	2.00	1.75	1.88	1.59	1.68	1.40
25	2.20	2.19	1.78	1.73	1.53	1.72	2.06	1.69	1.82	1.70	1.65	1.50
26	2.01	2.19	1.78	1.12	1.38	1.89	2.10	1.78	1.79	1.85	1.45	1.55
27	1.81	2.31	1.85	1.09	1.42	1.49	1.87	1.59	1.59	1.55	1.43	1.65
28	1.88	1.85	1.83	1.01	1.52	1.74	1.98	1.63	1.60	1.25	1.35	1.75
29	1.93	1.85	1.72	.98	---	1.73	1.88	1.76	1.71	1.22	1.55	1.90
30	1.86	1.61	1.75	.89	---	1.72	1.68	1.84	1.69	1.39	1.50	2.00
31	2.23	---	1.42	.98	---	1.61	---	1.64	---	1.37	1.40	---
MEAN	1.86	2.13	1.77	1.36	1.69	1.64	1.54	1.49	1.64	1.57	1.52	1.63
MAX	2.60	2.66	2.69	1.91	2.36	2.05	2.10	1.84	2.07	2.00	2.04	2.35
MIN	1.52	1.58	1.33	.83	1.05	.89	1.12	1.01	1.12	1.18	1.09	1.20

CAL YR 1977 MEAN -1.08 MAX 2.69 MIN -1.54
WTR YR 1978 MEAN 1.65 MAX 2.69 MIN .83

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

265916080083500 LOXAHATCHEE RIVER NEAR HOBE SOUND, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
TIDAL LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-.33	.47	-.54	-.60	-1.11	-.74	-.91	-.68	-.85	-.86	-.75	-.75
2	-.35	.80	-.58	-.37	-1.13	-.44	-.85	-.79	-.84	-.89	-.63	-.75
3	-.26	.81	-.54	-.19	-.62	-.55	-.99	-.67	-.93	-1.01	-.64	-.80
4	.30	.47	-.54	-.05	-.99	-.22	-1.13	-.78	-1.04	-1.07	-.62	-.96
5	.35	.36	-.77	-.59	-.49	-.56	-1.10	-1.18	-.87	-1.03	-.74	-.88
6	.01	.24	-.57	-.93	-.37	-.50	-1.04	-1.14	-1.00	-.95	-.78	-.80
7	-.16	.06	-1.05	-1.06	-.57	-.61	-1.20	-.89	-.87	-.76	-.81	-.85
8	-.08	-.11	-.75	-1.03	-.67	-.77	-1.00	-.86	-.86	-.42	-.86	-.98
9	-.34	-.24	-.66	-1.25	-.42	-.78	-1.00	-.94	-.86	-.42	-.83	-1.00
10	-.29	-.46	-1.12	-1.22	-.09	-.82	-1.04	-.88	-.92	-.40	-.86	-1.05
11	-.44	-.62	-.68	-1.11	-.13	-.59	-1.02	-.75	-.81	-.35	-.92	-.95
12	-.54	-.29	-.39	-.81	-.47	-.80	-1.05	-.84	-.54	-.55	-1.14	-.85
13	-.67	-.31	-.44	-.82	-.68	-.84	-.85	-.78	-.31	-.65	-1.27	-.83
14	-.36	-.38	-.48	-1.00	-.83	-.71	-.86	-.82	-.36	-.60	-1.24	-.85
15	-.30	-.18	-.72	-1.00	-.54	-.95	-.69	-.79	-.56	-.80	-1.28	-.90
16	-.70	-.27	-.74	-1.09	-.55	-.94	-.57	-.91	-.62	-.95	-1.10	-.90
17	-.82	-.54	-.62	-1.17	-.50	-.86	-.46	-.90	-.70	-1.10	-.84	-.90
18	-.83	-.58	-.59	-.86	-.06	-.77	-.46	-.97	-.69	-1.05	-.80	-.92
19	-.90	-.30	-.34	-1.02	-.47	-.57	-.81	-1.01	-.82	-1.03	-.85	-.95
20	-.81	-.34	-.06	-.70	-.39	-.83	-1.00	-.88	-.97	-.86	-.90	-.65
21	-.64	-.10	-.39	-1.10	-.56	-.64	-.84	-.89	-1.03	-.83	-.80	-.55
22	-.54	-.23	-.50	-1.14	-.88	-.88	-.81	-1.17	-.90	-.86	-.60	-.40
23	-.48	-.43	-.66	-1.05	-.76	-.70	-.68	-1.21	-.94	-.85	-.40	-.50
24	-.32	-.50	-.72	-.92	-.87	-.59	-.88	-1.17	-.90	-.88	-.30	-.35
25	-.12	-.36	-.63	-.64	-.76	-.82	-.83	-1.05	-.69	-.80	-.20	-.15
26	-.43	-.19	-.66	-1.09	-.88	-.73	-.90	-1.09	-.73	-.60	-.35	-.20
27	-.59	-.08	-.48	-1.10	-.90	-.88	-.69	-.91	-.75	-.70	-.48	-.22
28	-.50	-.39	-.53	-1.19	-.76	-.92	-.50	-.71	-.71	-1.06	-.40	-.10
29	-.47	-.36	-.65	-1.01	---	-.90	-.61	-.52	-.77	-1.12	-.35	-.15
30	-.41	-.50	-.41	-1.14	---	-.85	-.72	-.48	-.75	-.88	-.55	-.20
31	.01	---	-.73	-1.15	---	-.73	---	-.66	---	-.86	-.70	---
MEAN	-.39	-.15	-.60	-.92	-.62	-.73	-.85	-.88	-.79	-.81	-.74	-.68
MAX	.35	.81	-.06	-.05	-.06	-.22	-.46	-.48	-.31	-.35	-.20	-.10
MIN	-.90	-.62	-1.12	-1.25	-1.13	-.95	-1.20	-1.21	-1.04	-1.12	-1.28	-1.05
CAL YR 1977	MEAN	-0.66	MAX	.81	MIN	-1.54						
WTR YR 1978	MEAN	-.68	MAX	.81	MIN	-1.28						

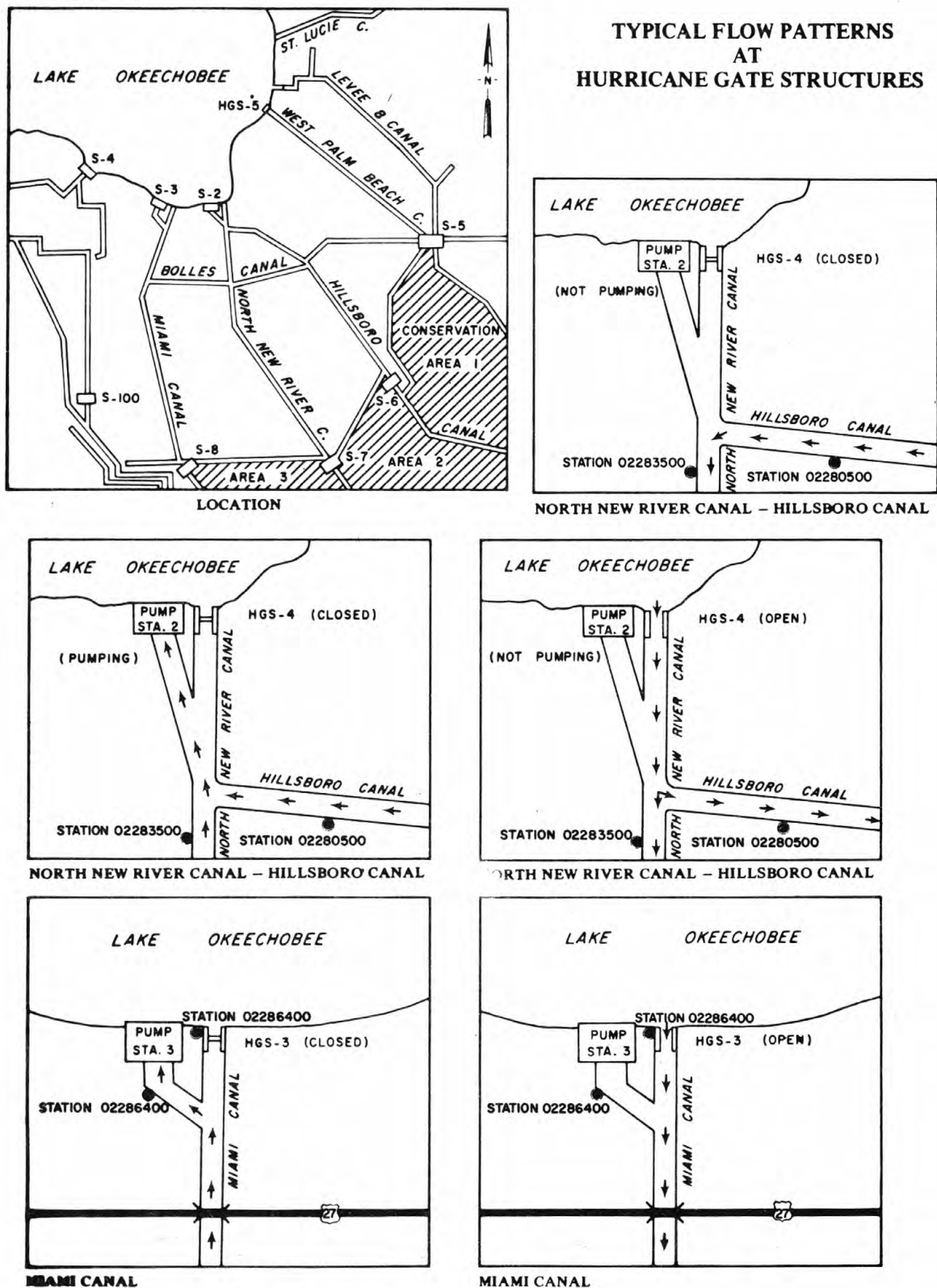


Figure 7. Typical flow patterns at Hurricane Gate Structures.

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02278000 WEST PALM BEACH CANAL AT HGS-5, AT CANAL POINT, FL

LOCATION.--Lat 26°51'5" 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 (61 m) 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 (Corps of Engineers bench mark). Prior to Jan. 14, 1954, nonrecording gage at site 550 ft (168 m) 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-meter recorders all at present site and datum. Since May 1940, auxiliary water-stage recorder below old lock and dam, 700 ft (213 m) downstream.

REMARKS.--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 furnished by South Florida Water Management District.

AVERAGE DISCHARGE.--38 years (1940-78), 168 ft³/s (4.76 m³/s), 121,600 acre-ft/yr (150 hm³/yr).

EXTREMES FOR PERIOD OF RECORD: Maximum daily discharge, 1,610 ft³/s (45.6 m³/s) Oct. 2, 1959; maximum gage height observed, 18.54 ft (5.651 m) Oct. 23, 1947, at former site; maximum daily reverse flow, 1,760 ft³/s (49.8 m³/s) June 15, 1942; minimum gage height observed, 8.48 ft (2.585 m) June 15-17, 1952, at former site.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 955 ft³/s (27.0 m³/s) Apr. 15; maximum gage height, 17.65 ft (5.38 m) Sept. 11; no flow for many days; minimum gage height, 12.89 ft (3.929 m) Oct. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	79	.00	.00	.00	.00	543	494	.00	.00	.00	.00
2	.00	183	.00	.00	.00	.00	524	173	.00	.00	.00	.00
3	.00	175	.00	.00	.00	.00	447	.00	.00	.00	.00	.00
4	.00	284	.00	.00	.00	.00	298	.00	.00	.00	.00	.00
5	.00	280	.00	.00	.00	.00	303	.00	.00	.00	.00	.00
6	.00	321	.00	.00	.00	.00	316	.00	.00	.00	.00	.00
7	.00	304	.00	.00	513	.00	327	.00	.00	.00	.00	.00
8	.00	303	.00	.00	307	.00	327	.00	.00	.00	.00	.00
9	.00	303	.00	.00	.00	.00	323	.00	.00	.00	.00	.00
10	.00	318	.00	.00	.00	.00	486	.00	.00	.00	.00	.00
11	227	285	.00	.00	.00	.00	833	.00	.00	.00	.00	.00
12	433	.00	.00	.00	.00	.00	806	.00	.00	.00	.00	.00
13	420	190	.00	.00	.00	.00	662	.00	.00	.00	.00	.00
14	414	289	.00	.00	.00	.00	712	.00	.00	.00	.00	.00
15	370	260	.00	.00	.00	.00	955	405	.00	.00	.00	.00
16	365	161	.00	.00	.00	.00	895	245	.00	.00	.00	.00
17	360	249	.00	.00	.00	124	791	.00	.00	.00	.00	.00
18	371	231	.00	.00	.00	189	482	.00	.00	.00	.00	.00
19	467	203	.00	.00	.00	183	.00	.00	.00	.00	.00	.00
20	509	191	.00	.00	.00	68	405	.00	.00	.00	.00	.00
21	499	207	.00	.00	.00	.00	776	.00	.00	.00	.00	.00
22	489	200	.00	.00	.00	.00	785	.00	.00	.00	.00	.00
23	176	167	.00	.00	.00	219	714	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	338	321	237	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	337	178	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	317	242	.00	.00	.00	.00	.00	.00
27	90	.00	.00	.00	304	381	395	.00	.00	.00	.00	.00
28	289	.00	.00	.00	206	134	568	.00	.00	.00	.00	.00
29	272	.00	.00	.00	---	.00	539	.00	.00	.00	.00	.00
30	249	.00	.00	.00	---	146	517	.00	.00	.00	.00	.00
31	129	---	.00	.00	---	489	---	.00	---	.00	.00	---
TOTAL	6129.00	5183.00	.00	.00	2322.00	2674.00	14966.00	1317.00	.00	.00	.00	.00
MEAN	198	173	.000	.000	82.9	86.3	499	42.5	.000	.000	.000	.000
MAX	509	321	.00	.00	513	489	955	494	.00	.00	.00	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	12160	10280	.00	.00	4610	5300	29690	2610	.00	.00	.00	.00

CAL YR 1977 TOTAL 39766.00 MEAN 109 MAX 715 MIN .00 AC-FT 78880
WTR YR 1978 TOTAL 32591.00 MEAN 89.3 MAX 955 MIN .00 AC-FT 64640

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02278000 WEST PALM BEACH CANAL AT HGS-5, AT CANAL POINT, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.71	13.32	13.73	14.41	15.19	14.86	15.08	14.56	14.58	14.63	15.53	16.34
2	13.69	13.24	13.81	14.43	15.19	14.83	15.11	14.55	14.55	14.69	15.65	16.35
3	13.75	13.25	13.81	14.51	14.76	14.89	15.07	14.49	14.58	14.60	15.71	16.42
4	13.63	13.48	13.77	14.46	14.78	15.16	15.07	14.44	14.61	14.70	15.79	16.45
5	13.61	13.61	13.77	14.40	14.74	15.03	15.05	14.68	14.61	14.70	15.86	16.41
6	13.64	13.65	14.19	14.41	14.81	14.94	15.04	14.63	14.62	14.73	15.92	16.42
7	13.61	13.65	14.08	14.39	14.68	14.89	15.06	14.68	14.61	14.71	15.97	16.48
8	13.57	13.63	13.93	14.41	14.53	14.96	15.05	14.74	14.66	14.71	16.08	16.46
9	13.62	13.60	14.01	14.74	14.75	15.18	15.01	14.83	14.70	14.72	16.12	16.44
10	13.60	13.73	14.22	14.55	14.78	15.60	14.90	14.84	14.68	14.75	16.14	16.42
11	13.58	13.84	14.19	14.48	14.70	15.29	14.85	14.72	14.68	14.75	16.23	16.59
12	13.56	13.74	14.11	14.38	14.64	15.28	14.84	14.77	14.72	14.74	16.27	16.66
13	13.69	13.61	14.13	14.43	14.66	15.26	14.87	14.82	14.71	14.74	16.33	16.59
14	13.62	13.51	14.19	14.62	14.71	15.32	14.87	14.98	14.65	14.75	16.33	16.55
15	13.46	13.47	14.22	14.56	14.70	15.33	14.75	14.86	14.58	14.75	16.31	16.55
16	13.56	13.46	14.27	14.40	14.66	15.39	14.75	14.75	14.52	14.78	16.35	16.56
17	13.49	13.46	14.32	14.40	14.73	15.57	14.65	14.66	14.48	14.82	16.34	16.52
18	13.37	13.45	14.49	14.40	14.72	15.42	14.64	14.69	14.39	14.90	16.34	16.52
19	13.32	13.41	14.46	14.48	14.82	15.33	14.85	14.74	14.45	14.92	16.39	16.47
20	13.30	13.36	14.39	14.66	14.81	15.28	14.85	14.74	14.48	14.89	16.38	16.51
21	13.24	13.36	14.51	14.67	14.89	15.31	14.78	14.72	14.51	14.91	16.37	16.49
22	13.20	13.35	14.49	14.67	15.19	15.33	14.67	14.72	14.52	14.94	16.34	16.51
23	13.28	13.42	14.44	14.65	14.94	15.31	14.44	14.71	14.60	14.96	16.38	16.51
24	13.26	13.51	14.40	14.66	14.88	15.26	14.69	14.71	14.63	14.99	16.43	16.52
25	13.29	13.61	14.39	14.68	14.87	15.26	14.77	14.71	14.64	15.06	16.43	16.57
26	13.33	13.76	14.58	14.98	14.90	15.30	15.06	14.64	14.63	15.04	16.45	16.59
27	13.37	13.49	14.51	14.89	14.86	15.38	14.86	14.62	14.66	15.05	16.39	16.63
28	13.33	13.49	14.46	14.95	14.87	15.24	14.66	14.63	14.70	15.18	16.36	16.60
29	13.24	13.55	14.40	14.94	---	15.28	14.62	14.64	14.68	15.32	16.35	16.58
30	13.23	13.67	14.39	14.80	---	15.26	14.59	14.66	14.67	15.36	16.38	16.57
31	13.29	---	14.39	14.71	---	15.14	---	14.65	---	15.45	16.37	---
MEAN	13.47	13.52	14.23	14.58	14.81	15.22	14.85	14.70	14.60	14.88	16.20	16.51
MAX	13.75	13.84	14.58	14.98	15.19	15.60	15.11	14.98	14.72	15.45	16.45	16.66
MIN	13.20	13.24	13.73	14.38	14.53	14.83	14.44	14.44	14.39	14.60	15.53	16.34

CAL YR 1977 MEAN 13.57 MAX 14.94 MIN 12.28
WTR YR 1978 MEAN 14.80 MAX 16.66 MIN 13.20

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

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 (152 m) 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 (0.369 m) lower.

REMARKS.--Water level materially affected by operation of hurricane gate structure No. 5, 700 ft (213 m) upstream and pumping at structures 5-A, 20 mi (32.2 km) downstream, and to a lesser degree by local pumping and drainage for agricultural purposes.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 18.70 ft (5.700 m) Oct. 12, 1947; minimum, 8.49 ft (2.588 m) June 16, 1952.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 13.63 ft (4.154 m) Apr. 16; minimum, 9.54 ft (2.908 m) Feb. 10.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.74	12.01	11.27	11.36	11.16	11.72	12.77	12.48	11.19	10.66	10.45	10.50
2	10.75	12.00	11.77	11.45	11.52	11.80	12.96	12.41	11.65	10.80	11.14	10.86
3	10.69	12.11	11.34	10.83	11.52	11.91	12.92	11.62	12.11	10.75	11.21	10.12
4	9.79	10.52	11.77	10.91	11.50	11.41	12.65	11.25	11.60	10.69	10.70	10.47
5	10.15	10.83	11.24	11.26	11.35	10.79	12.53	11.19	10.61	10.92	10.23	10.07
6	10.18	10.07	11.58	11.39	11.13	10.89	12.29	11.32	10.69	11.36	10.25	9.98
7	10.42	10.44	10.47	11.35	11.54	11.64	12.13	12.02	10.82	10.06	10.51	10.06
8	10.75	10.44	10.70	11.33	12.46	11.61	12.11	11.31	10.75	10.71	10.15	10.48
9	10.83	10.38	11.78	11.54	11.51	12.33	12.12	11.00	10.41	9.70	10.47	10.31
10	10.79	10.26	12.38	10.63	9.91	11.04	12.21	11.12	10.62	10.48	10.57	10.55
11	10.91	10.43	11.37	10.41	10.47	10.14	12.93	10.30	11.38	11.02	11.42	11.69
12	11.66	10.35	10.58	11.04	10.63	11.43	12.79	10.61	11.18	10.43	11.19	11.59
13	11.95	10.30	10.94	10.99	10.62	11.92	12.78	10.34	10.81	10.32	10.89	10.96
14	11.90	10.52	11.92	10.95	10.80	12.01	12.25	9.99	10.27	10.17	10.28	11.25
15	12.05	11.05	10.74	10.83	10.85	11.92	13.43	10.64	10.36	10.31	10.05	12.06
16	12.21	11.01	12.07	10.86	11.11	11.73	13.59	11.37	10.76	10.46	10.41	11.90
17	12.16	11.23	10.54	10.88	11.46	11.55	13.45	11.79	10.68	10.74	11.18	10.22
18	11.92	11.53	10.56	11.18	10.23	11.88	12.99	11.01	10.60	9.89	10.71	11.33
19	11.67	11.91	10.57	11.49	11.28	11.98	11.91	10.73	11.02	11.46	10.68	11.07
20	12.02	12.03	11.42	10.46	10.07	12.01	11.67	10.97	10.78	10.05	10.77	11.07
21	11.99	11.80	11.50	9.99	10.37	12.03	12.55	10.78	10.91	10.24	10.84	11.09
22	12.00	11.89	11.59	10.61	10.09	11.77	12.87	10.69	10.93	10.34	10.40	10.78
23	12.50	11.99	11.67	11.59	9.89	11.89	12.90	10.76	11.64	10.89	10.63	11.84
24	12.44	12.81	12.09	11.66	10.76	12.51	12.00	11.14	10.33	10.88	11.31	11.60
25	12.13	10.77	12.11	11.16	11.66	12.22	9.88	11.19	10.97	11.06	10.20	10.13
26	12.03	10.75	12.28	11.04	12.06	11.15	9.76	11.25	11.61	10.93	10.18	10.00
27	11.77	11.35	11.53	11.01	12.25	11.59	10.59	11.08	11.26	10.63	10.33	10.12
28	11.83	11.58	10.48	11.09	12.26	12.28	11.95	10.91	11.78	10.50	10.91	11.15
29	11.90	12.05	10.88	11.22	---	12.06	12.17	10.72	13.02	11.52	11.43	9.91
30	12.10	12.21	11.34	11.03	---	12.05	12.32	10.60	11.55	11.66	11.35	11.32
31	12.33	---	11.37	10.98	---	12.26	---	10.86	---	10.88	10.40	---
MEAN	11.50	11.22	11.35	11.05	11.09	11.73	12.32	11.08	11.08	10.66	10.69	10.82
MAX	12.50	12.81	12.38	11.66	12.46	12.51	13.59	12.48	13.02	11.66	11.43	12.06
MIN	9.79	10.07	10.47	9.99	9.89	10.14	9.76	9.99	10.27	9.70	10.05	9.91

CAL YR 1977 MEAN 11.57 MAX 13.22 MIN 9.74
WTR YR 1978 MEAN 11.21 MAX 13.59 MIN 9.70

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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 (152 m) upstream from pump station S-5A, 0.3 mi (0.5 km) upstream from Levee 8 Canal, 1.1 mi (1.8 km) downstream from bridge on U.S. Highway 441 and Cross Canal, and 6 mi (10 km) 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 (Corps of Engineers bench mark). Prior to Sept. 30, 1967, deflection-meter recorder at same site and auxiliary water stage recorder at control structure SA-W, 0.3 mi (0.5 km) downstream at same datum.

REMARKS.--Records good. Flow regulated primarily by pumpage at S-5A and to a lesser extent by operation of control structure SA-W. Major regulation above the station occurs in Cross Canal, 1.5 mi (2.4 km) upstream, and at hurricane gate structure 5 at Lake Okeechobee, 20 mi (32 km) 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 Conversation 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 furnished by South Florida Water Management District.

AVERAGE DISCHARGE.--21 years, 443 ft³/s (12.6 m³/s), 320,700 acre-ft/yr (394 hm³/yr).

EXTREMES FOR PERIOD OF RECORD: Maximum daily discharge, 5,230 ft³/s (148 m³/s) Mar. 27, 1970; maximum gage height, 14.02 ft (4.273 m) Oct. 3, 1957; maximum daily reverse flow, 775 ft³/s (22.0 m³/s) Oct. 26, 1968; minimum gage height, 8.21 ft (2.502 m) Aug. 5, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,250 ft³/s (92.0 m³/s) Nov. 30; maximum gage height, 13.05 ft (3.978 m) Nov. 24; maximum daily reverse flow, 377 ft³/s (10.7 m³/s) May 23; minimum gage height, 8.65 ft (2.637 m) July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	1520	.00	.00	.00	280	213	-180	823	1580	391
2	608	.00	863	.00	.00	.00	283	246	-70	611	2430	394
3	425	.00	627	619	.00	865	219	853	1010	-159	3040	735
4	360	1190	.00	-86	.00	1310	129	1260	1600	433	2150	1050
5	.00	1590	663	-73	.00	.00	196	313	1840	720	1380	1310
6	.00	100	1440	-34	.00	-158	211	2370	1800	1650	1270	1100
7	-36	.00	741	.00	.00	-55	205	2430	1760	216	1530	308
8	-34	.00	.00	.00	.00	.00	160	1760	496	1070	566	281
9	-16	.00	1120	.00	1190	1900	187	602	417	323	651	336
10	14	.00	3110	.00	814	1920	244	959	.00	153	458	.00
11	69	.00	2320	51	1050	243	400	.00	.00	658	947	875
12	108	.00	1400	-68	1290	-113	443	114	727	676	703	887
13	142	.00	245	725	1520	-94	445	182	738	373	861	556
14	102	.00	1270	140	1780	-81	361	183	417	376	1080	.00
15	115	.00	945	71	2030	-26	460	150	.00	428	525	1070
16	135	.00	2110	141	2300	.00	488	-130	.00	598	141	1640
17	116	.00	2590	272	2210	.00	448	121	.00	1550	563	324
18	104	.00	1860	.00	418	.00	400	1820	.00	1180	637	.00
19	113	.00	752	959	717	.00	197	1650	.00	1830	.00	727
20	137	.00	472	1570	510	-134	219	1580	-97	1710	610	.00
21	125	.00	945	564	312	-58	311	562	-143	1130	607	.00
22	143	.00	.00	491	.00	-28	352	446	.00	358	379	476
23	161	.00	.00	137	.00	5.2	367	-377	1260	545	294	938
24	89	1670	.00	500	.00	172	1810	-359	546	672	1430	1690
25	115	1170	.00	656	.00	841	428	-213	588	.00	1010	1660
26	100	.00	.00	.00	.00	.00	.00	.00	1460	384	596	1090
27	124	.00	686	-57	.00	.00	.00	.00	1620	263	311	499
28	70	.00	-77	-83	.00	.00	158	.00	1920	268	.00	1080
29	.00	1650	-114	-67	---	.00	183	1470	2530	1280	413	519
30	.00	3250	-39	-40	---	237	171	98	2170	2710	579	.00
31	.00	---	.00	-10	---	249	---	-120	---	2300	763	---
TOTAL	3389.00	10620.00	25449.00	6378.00	16141.00	6995.20	9755.00	18183.00	22409.00	25129.00	27504.00	19936.00
MEAN	109	354	821	206	576	226	325	587	747	811	887	665
MAX	608	3250	3110	1570	2300	1920	1810	2430	2530	2710	3040	1690
MIN	-36	.00	-114	-86	.00	-158	.00	-377	-180	-159	.00	.00
AC-FT	6720	21060	50480	12650	32020	13870	19350	36070	44450	49840	54550	39540

CAL YR 1977 TOTAL 144677.00 MEAN 396 MAX 3710 MIN -750 AC-FT 287000
WTR YR 1978 TOTAL 191888.20 MEAN 526 MAX 3250 MIN -377 AC-FT 380600

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02278500 DIVERSIONS TO CONSERVATION AREA NO. 1 AT S-5A AND S-5A-S, NEAR LOXAHATCHEE, FL

LOCATIONS.--Lat 26°41'00", long 80°22'10", in S1/2 sec.32, T.43, S., R.40 E., Palm Beach County, Hydrologic Unit 03090202, at pump station S-5A, 1.5 mi (2.4 km) downstream from Cross Canal, and 6 mi (9.7 km) 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 (Corps of Engineers bench mark). Prior to Sept. 30, 1967, auxiliary deflection-meter recorders 500 ft (152 m) upstream and in Levee 8 Canal, and auxiliary water-stage recorders above S-5A-W and below S-5A-E.

REMARKS.--Records good. 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 (2.4 km) upstream, and hurricane gate structure 5, 20 mi (32 km) upstream. Negative figures indicate releases from gate S-5A-S.

COOPERATION.--Gate opening and pump records furnished by South Florida Water Management District.

AVERAGE DISCHARGE.--21 years, 387 ft³/s (11.0 m³/s), 280,200 acre-ft/yr (345 hm³/yr).

EXTREMES FOR PERIOD OF RECORD: Maximum daily discharge, 7,040 ft³/s (199 m³/s) Mar. 28, 1970; maximum gage height, 14.02 ft (4.273 m) Oct. 3, 1957; maximum daily reverse flow, 1,180 ft³/s (33.4 m³/s) May 25, 1964; no flow for many days each year; minimum gage height, 8.21 ft (2.502 m) Aug. 5, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,760 ft³/s (106 m³/s) Aug. 3; maximum gage height, 13.05 ft (3.978 m) Nov. 24; maximum daily reverse flow, 537 ft³/s (15.2 m³/s) May 16; no flow for many days during the year; minimum gage height, 8.65 (2.637 m) July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	-75	1520	.00	.00	.00	.00	.00	-260	1070	2230	391
2	608	-91	863	.00	-68	.00	.00	.00	-236	739	3050	394
3	546	-93	627	681	-111	865	.00	789	771	.00	3760	735
4	451	1190	.00	.00	-106	1310	.00	1260	1510	564	2430	1050
5	.00	1530	585	.00	-101	.00	.00	399	2000	720	1800	1310
6	.00	10	1400	.00	-100	.00	.00	2260	2090	1650	1780	1310
7	.00	-90	741	.00	-108	.00	.00	2490	1940	216	1990	546
8	.00	-91	.00	.00	-103	.00	.00	1860	614	1290	1220	443
9	.00	-103	1120	.00	1080	1990	.00	359	417	521	1200	391
10	.00	-113	3110	.00	793	2090	.00	805	.00	235	699	.00
11	.00	-109	2480	.00	1060	405	.00	.00	.00	786	947	875
12	.00	-107	1400	.00	1290	.00	.00	.00	786	800	721	887
13	.00	-109	245	712	1520	.00	.00	.00	864	497	1180	556
14	.00	-106	1270	.00	1780	.00	.00	.00	539	458	1450	.00
15	.00	-74	945	.00	2030	.00	.00	.00	.00	550	677	1070
16	.00	-67	2280	.00	2300	.00	.00	-537	.00	695	141	1640
17	.00	-69	2890	150	2210	.00	.00	-181	.00	1760	563	324
18	.00	-70	2150	-84	418	.00	.00	1820	.00	1380	637	.00
19	.00	-66	1020	871	717	.00	.00	1710	.00	2040	.00	727
20	.00	-58	621	1570	510	.00	.00	1770	.00	2010	610	.00
21	.00	-57	1110	624	312	.00	.00	674	.00	1430	607	.00
22	.00	-61	.00	603	.00	.00	.00	696	.00	645	379	476
23	.00	-67	.00	236	.00	.00	.00	.00	.00	678	294	938
24	.00	1600	.00	533	.00	.00	1680	.00	546	756	1430	1690
25	.00	1110	.00	709	.00	740	428	.00	588	.00	1170	1660
26	.00	-18	.00	.00	.00	.00	.00	-31	1720	537	857	1090
27	.00	.00	744	.00	.00	.00	.00	-50	2000	263	426	499
28	-97	-78	.00	.00	.00	.00	.00	-51	2290	342	.00	1080
29	-97	1580	.00	.00	---	.00	.00	1420	2780	1280	473	519
30	-82	3250	.00	.00	---	.00	.00	47	2550	3160	684	.00
31	-44	---	.00	.00	---	.00	---	-176	---	2920	956	---
TOTAL	1285.00	8498.00	27121.00	6605.00	15323.00	7400.00	2108.00	17333.00	24769.00	29992.00	34361.00	20601.00
MEAN	41.5	283	875	213	547	239	70.3	559	826	967	1108	687
MAX	608	3250	3110	1570	2300	2090	1680	2490	2780	3160	3760	1690
MIN	-97	-113	.00	-84	-111	.00	.00	-537	-260	.00	.00	.00
AC-FT	2550	16860	53790	13100	30390	14680	4180	34380	49130	59490	68160	40860

CAL YR 1977 TOTAL 124629.00 MEAN 341 MAX 4570 MIN -1390 AC-FT 247200
WTR YR 1978 TOTAL 195396.00 MEAN 535 MAX 3760 MIN -537 AC-FT 387600

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02278500 DIVERSIONS TO CONSERVATION AREA NO. 1 AT S-5A AND S-5A-S, NEAR LOXAHATCHEE, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.71	12.09	10.49	11.42	11.26	11.82	12.19	12.12	11.26	9.98	10.18	10.35
2	10.68	12.03	11.66	11.56	11.59	11.76	12.52	12.33	11.58	10.52	10.40	10.82
3	10.60	12.11	11.30	10.96	11.61	11.33	12.52	11.47	11.45	10.54	10.33	10.03
4	9.73	10.32	11.84	11.01	11.64	10.54	12.42	10.57	10.80	10.35	10.09	10.33
5	10.21	10.55	11.08	11.33	11.47	10.85	12.35	10.51	9.97	10.70	10.12	9.90
6	10.25	10.05	10.74	11.49	11.35	10.93	12.04	10.54	10.02	10.76	10.17	9.92
7	10.51	10.50	10.09	11.39	11.01	11.61	11.92	10.41	10.08	10.08	10.21	10.09
8	10.81	10.54	10.70	11.33	11.98	11.61	11.87	10.05	10.27	10.11	10.15	10.46
9	10.93	10.48	11.23	11.76	11.30	11.19	11.85	10.73	10.33	9.42	10.49	10.33
10	10.87	10.37	10.33	10.79	10.08	9.94	11.74	10.73	10.56	10.28	10.63	10.65
11	10.72	10.60	10.33	10.54	10.57	10.13	11.72	10.36	11.46	10.65	11.09	11.35
12	11.18	10.55	10.11	11.07	10.68	11.48	11.65	10.61	10.91	10.30	10.94	11.22
13	11.71	10.43	10.91	10.79	10.64	11.93	11.60	10.42	10.73	10.27	10.57	10.79
14	11.66	10.53	11.34	11.05	10.92	12.05	11.19	10.10	10.17	10.24	10.03	11.41
15	11.83	10.96	10.39	10.98	10.94	11.97	11.92	10.04	10.43	10.27	10.06	11.72
16	12.05	10.96	11.42	10.91	11.14	11.80	12.36	11.03	10.75	10.34	10.38	11.24
17	12.01	11.01	9.78	10.81	10.85	11.62	12.33	11.64	10.70	10.34	10.84	10.19
18	11.75	11.25	10.12	11.22	10.17	11.85	12.34	10.15	10.66	10.02	10.60	11.38
19	11.35	11.65	10.58	11.05	11.26	11.90	11.85	10.07	11.11	11.05	10.82	10.94
20	11.61	11.76	11.23	9.77	10.07	12.00	11.31	10.15	10.88	10.02	10.54	11.17
21	11.60	11.51	11.47	9.83	10.29	12.01	11.42	10.36	11.08	10.22	10.60	11.16
22	11.62	11.65	11.68	10.47	10.39	11.91	11.66	10.76	11.00	10.42	10.37	10.60
23	12.25	11.82	11.74	11.48	10.05	11.85	11.77	10.81	10.60	10.88	10.55	11.34
24	12.43	11.73	12.13	11.24	10.36	12.33	11.24	11.24	10.00	10.88	10.67	10.82
25	12.24	10.28	12.18	10.29	11.51	11.80	9.91	11.37	10.68	11.24	9.95	9.79
26	12.12	10.83	12.45	10.76	11.91	11.21	9.87	11.36	10.52	11.00	10.05	9.90
27	11.83	11.41	11.29	10.69	12.08	11.50	10.17	11.69	9.72	10.81	10.32	10.10
28	11.78	11.64	10.61	10.81	12.12	12.20	11.28	12.10	9.95	10.66	10.98	10.71
29	11.85	11.24	10.94	10.84	---	12.21	11.57	11.44	10.66	11.33	11.33	9.95
30	12.10	10.34	11.38	10.65	---	11.98	11.80	10.43	9.48	10.67	11.24	11.40
31	12.37	---	11.44	10.54	---	11.78	---	10.86	---	10.43	10.19	---
MEAN	11.40	11.04	11.06	10.93	11.04	11.58	11.68	10.85	10.59	10.48	10.48	10.67
MAX	12.43	12.11	12.45	11.76	12.12	12.33	12.52	12.33	11.58	11.33	11.33	11.72
MIN	9.73	10.05	9.78	9.77	10.05	9.94	9.87	10.04	9.48	9.42	9.95	9.79

CAL YR 1977 MEAN 11.35 MAX 12.95 MIN 9.53
WTR YR 1978 MEAN 10.98 MAX 12.52 MIN 9.42

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

02278501 CONSERVATION AREA NO. 1 BELOW S-5 COMPLEX, 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 (2.4 km) downstream from Cross Canal, and 6 mi (10 km) west of Loxahatchee.

DRAINAGE AREA.--Indeterminate.

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.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark).

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 PERIOD OF RECORD.--Maximum gage height, 18.30 ft (5.578 m) Sept. 26, 1960; minimum, 8.02 ft (2.444 m) Apr. 20, 24, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 17.25 ft (5.258 m) Dec. 17; minimum, 13.55 ft (4.130 m) Apr. 23.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.61	15.98	16.46	16.87	15.93	15.42	14.73	13.92	14.74	15.91	16.36	15.70
2	16.49	15.97	16.47	16.84	15.95	15.38	14.67	13.77	14.68	15.66	16.48	15.66
3	16.44	15.99	16.39	16.88	15.92	15.58	14.59	14.21	14.85	15.55	16.64	15.67
4	16.41	16.14	16.35	16.87	15.82	15.66	14.46	14.63	15.07	15.39	16.65	15.78
5	16.41	16.23	16.42	16.85	15.81	15.51	14.33	14.51	15.43	15.34	16.47	15.93
6	16.40	16.21	16.49	16.85	15.79	15.50	14.32	15.10	15.59	15.54	16.44	15.99
7	16.39	16.18	16.52	16.84	15.75	15.50	14.28	15.49	15.68	15.64	16.40	15.95
8	16.38	16.14	16.45	16.81	15.74	15.48	14.26	15.46	15.52	15.57	16.31	15.89
9	16.38	16.13	16.55	16.76	15.88	15.67	14.21	15.02	15.46	15.53	16.18	15.88
10	16.38	16.13	16.86	16.72	15.88	16.00	14.22	14.91	15.26	15.33	16.00	15.84
11	16.37	16.04	16.89	16.66	15.82	15.84	14.14	14.75	15.18	15.31	15.85	15.95
12	16.36	16.00	16.78	16.61	15.80	15.71	14.04	14.70	15.28	15.33	15.72	15.97
13	16.29	15.98	16.77	16.65	15.81	15.68	14.02	14.68	15.40	15.30	15.73	15.92
14	16.23	15.99	16.83	16.58	15.69	15.68	13.92	14.63	15.31	15.26	15.81	15.87
15	16.24	15.98	16.78	16.49	15.63	15.64	13.93	14.60	15.16	15.27	15.70	16.01
16	16.21	16.00	16.90	16.46	15.64	15.57	13.95	14.43	15.12	15.37	15.61	16.11
17	16.21	15.97	17.21	16.41	15.74	15.37	13.95	14.38	15.09	15.63	15.62	16.01
18	16.18	15.94	17.15	16.36	15.80	15.35	13.89	14.97	15.03	15.72	15.61	15.96
19	16.16	15.93	17.10	16.50	15.77	15.36	13.84	15.22	15.19	15.67	15.54	16.05
20	16.13	15.91	17.09	16.89	15.84	15.25	13.74	15.28	15.29	15.79	15.52	15.98
21	16.12	15.92	17.10	16.84	15.83	15.25	13.65	15.09	15.34	15.76	15.49	15.95
22	16.10	15.91	17.03	16.71	15.74	15.13	13.60	15.00	15.36	15.66	15.53	16.04
23	16.09	15.94	16.99	16.67	15.72	15.09	13.61	14.83	15.62	15.61	15.52	16.09
24	16.09	16.07	16.99	16.66	15.69	15.03	14.43	14.74	15.60	15.57	15.67	16.09
25	16.08	16.18	16.98	16.69	15.63	15.11	14.60	14.72	15.53	15.40	15.65	16.14
26	16.09	16.15	16.94	16.55	15.58	15.03	14.28	14.68	15.70	15.43	15.70	16.18
27	16.10	16.12	16.94	16.45	15.53	14.89	14.10	14.66	15.90	15.46	15.66	16.17
28	16.08	16.11	16.97	16.34	15.56	14.88	14.05	14.64	16.02	15.41	15.61	16.23
29	16.06	16.24	16.92	16.27	---	14.83	14.03	14.96	16.11	15.58	15.66	16.25
30	16.03	16.56	16.93	16.20	---	14.78	13.99	14.84	16.16	16.14	15.71	16.22
31	16.00	---	16.90	16.09	---	14.78	---	14.79	---	16.32	15.76	---
MEAN	16.24	16.07	16.81	16.62	15.76	15.35	14.13	14.76	15.39	15.56	15.89	15.98
MAX	16.61	16.56	17.21	16.89	15.95	16.00	14.73	15.49	16.16	16.32	16.65	16.25
MIN	16.00	15.91	16.35	16.09	15.53	14.78	13.60	13.77	14.68	15.26	15.49	15.66
CAL YR 1977	MEAN 15.58		MAX 17.21	MIN 12.94								
WTR YR 1978	MEAN 15.72		MAX 17.21	MIN 13.60								

265501080364900 LEVEE 8 CANAL NEAR CANAL POINT, FL

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1976 to current year.

GAGE.--Water-stage and deflection-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 deflection meter.

EXTREMES FOR PERIOD OF RECORD.--maximum daily discharge, 462 ft³/s (13.1 m³/s) Aug. 22, 1977; maximum gage height, 16.30 ft (4.968 m) Mar. 10, Aug. 3, 1978; maximum daily reverse flow, 604 ft³/s (17.1 m³/s), Sept. 22, 1977; minimum gage height, 10.18 ft (3.103 m) Nov. 2, 1976.

EXTREMES FOR CURRENT PERIOD.--August to September 1976: Maximum daily discharge, 258 ft³/s (7.31 m³/s) Aug. 22; maximum gage height, 14.97 ft (4.563 m) estimated Sept. 8; no flow for many days; minimum gage height, 11.52 ft (3.511 m) estimated Sept. 2.

Water year 1977: Maximum daily discharge, 462 ft³/s (13.1 m³/s) Aug. 22; maximum gage height, 15.15 ft (4.618 m) May 7; maximum daily reverse flow, 604 ft³/s (17.1 m³/s) Sept. 22; minimum gage height, 10.18 ft (3.103 m) Nov. 2.

Water year 1978: Maximum daily discharge, 228 ft³/s (6.46 m³/s) Jan. 11; maximum gage height, 16.30 ft (4.968 m) Mar. 10, Aug. 3; maximum daily reverse flow, 405 ft³/s (11.5 m³/s) July 30; minimum gage height, 11.04 ft (3.365 m) May 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

[illegible]

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

265501080364900 LEVEE 8 CANAL NEAR CANAL POINT, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	6.5	100	142	57	-15	.00	132	82	-45	-109	-416
2	.00	.80	111	133	.00	.00	.00	124	-73	47	-9.5	-429
3	.00	.00	104	121	.00	.00	.00	160	-13	61	208	-426
4	.00	1.9	99	97	.00	.00	.00	165	4.2	64	326	-470
5	.00	22	101	110	.00	.00	6.0	156	31	9.7	294	-486
6	.00	22	92	100	.00	.00	.00	167	86	28	339	-490
7	.00	22	92	108	.00	-13	27	173	87	24	316	-491
8	.00	22	109	108	.00	.00	.00	136	64	31	349	-496
9	.00	124	90	111	.00	.00	.00	103	108	53	270	-489
10	.00	164	102	131	.00	17	.00	82	118	40	331	-495
11	.00	150	113	118	.00	19	69	61	112	48	336	-499
12	.00	130	98	114	.00	.00	148	87	115	48	209	-509
13	.00	108	87	97	.00	.00	160	161	126	47	-45	-512
14	.00	102	96	114	.00	23	181	79	87	10	-20	-517
15	.00	95	92	62	.00	33	165	89	120	24	128	-521
16	.00	113	93	13	.00	-15	141	63	161	1.9	147	-515
17	.00	103	95	79	.00	-7.7	134	90	184	23	199	-506
18	.00	99	100	79	2.3	.00	108	127	145	-126	214	-495
19	.00	99	103	138	33	.00	126	180	156	-44	186	-523
20	.00	98	108	97	38	.00	144	176	123	-53	198	-593
21	.00	99	112	111	40	.00	124	108	43	9.6	341	-600
22	.00	100	114	118	56	-20	90	76	-21	36	462	-604
23	.00	97	121	82	68	-2.7	95	92	-22	68	210	-583
24	.00	95	112	98	24	.00	111	67	-8.5	50	95	-590
25	.00	93	110	165	.00	.00	101	64	27	24	51	-574
26	.00	99	127	139	.00	.00	141	68	21	39	1.3	-545
27	.00	105	115	142	.00	.00	116	128	43	23	-8.6	-544
28	.00	103	115	155	-37	.00	140	121	83	7.4	-38	-522
29	.00	112	123	136	---	17	163	133	46	-44	76	-487
30	.00	110	126	115	---	23	136	134	104	-27	-19	-286
31	.00	---	126	115	---	8.1	---	54	---	-61	-76	---
TOTAL	.00	2495.20	3286	3448	281.30	66.70	2626.00	3556	2138.7	416.6	4961.2	-15213
MEAN	.000	83.2	106	111	10.0	2.15	87.5	115	71.3	13.4	160	-507
MAX	.00	164	127	165	68	33	181	180	184	68	462	-286
MIN	.00	.00	87	13	-37	-20	.00	54	-73	-126	-109	-604
AC-FT	.00	4950	6520	6840	558	132	5210	7050	4240	826	9840	-30170

WTR YR 1977 TOTAL 8062.70 MEAN 22.1 MAX 462 MIN -604 AC-FT 15990

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

265501080364900 LEVEE 8 CANAL NEAR CANAL POINT, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-234	27	-220	.00	-47	.00	.00	.00	.00	-70	-32	.00
2	-149	19	-63	-101	.00	-46	.00	.00	.00	-70	-78	.00
3	-113	35	-77	-75	.00	-127	.00	.00	.00	-70	-183	.00
4	-133	78	-17	.00	.00	-111	.00	.00	.00	-70	-43	.00
5	-26	11	-9.3	.00	.00	-32	.00	.00	12	-70	-21	.00
6	-15	14	-144	.00	.00	.00	.00	.00	.00	-94	-28	.00
7	-22	17	-384	.00	.00	.00	.00	.00	.00	-73	.00	.00
8	25	32	-305	.00	-15	-46	.00	.00	.00	-76	.00	.00
9	5.3	74	-256	.00	-69	-70	.00	.00	.00	44	.00	.00
10	36	82	-400	.00	.00	-61	.00	.00	.00	-4.0	.00	.00
11	30	72	-398	228	.00	.00	.00	.00	.00	-146	.00	.00
12	100	60	-241	130	-80	.00	.00	.00	-68	.00	.00	.00
13	94	86	-145	40	-1.1	-48	.00	.00	-55	.00	.00	.00
14	49	67	-156	9.1	.00	.00	.00	.00	-22	.00	.00	.00
15	57	22	-201	.00	.00	.00	-2.0	.00	-8.8	14	.00	.00
16	86	35	-362	.00	-18	-80	.00	.00	-4.60	11	.00	.00
17	48	68	-387	-27	3.3	-1.0	.00	.00	4.6	-3.4	.00	.00
18	62	83	-332	.00	-21	.00	.00	.00	41	10	.00	.00
19	73	55	-280	-54	-63	.00	.00	.00	30	-109	.00	.00
20	60	22	-232	-154	.00	.00	.00	.00	52	-101	.00	.00
21	84	-28	-173	-105	26	.00	.00	.00	125	-32	.00	.00
22	86	-7.8	-192	-97	43	.00	.00	.00	49	.40	.00	.00
23	22	44	-192	-35	47	.00	.00	.00	.00	45	.00	.00
24	-17	-182	-164	.00	.00	.00	.00	.00	-79	9.2	.00	.00
25	.80	-157	-149	-18	-61	.00	.00	.00	-125	-8.3	.00	.00
26	2.9	-75	-137	31	.00	.00	.00	.00	-92	.00	.00	.00
27	17	-7.8	-53	62	.00	.00	.00	.00	-48	.00	.00	.00
28	80	22	22	51	.00	.00	.00	.00	-72	.00	.00	.00
29	6.3	-77	.00	36	---	.00	.00	.00	-149	-62	.00	.00
30	-17	-371	.00	38	---	.00	.00	.00	-37	-405	.00	.00
31	-24	---	.00	27	---	.00	---	.00	---	-195	.00	---
TOTAL	274.30	119.4	-5647.30	-13.90	-255.80	-542.80	-2.00	.00	-442.80	-1525.10	-385.00	.00
MEAN	8.85	3.98	-182	-.45	-9.14	-17.5	-.067	.000	-14.8	-49.2	-12.4	.000
MAX	100	86	22	228	47	.00	.00	.00	125	45	.00	.00
MIN	-234	-371	-400	-154	-80	-127	-2.0	.00	-149	-405	-183	.00
AC-FT	544	237	-11200	-28	-507	-1080	-4.0	.00	-878	-3030	-764	.00

CAL YR 1977 TOTAL -2972.10 MEAN -8.14 MAX 462 MIN -604 AC-FT -5900
WTR YR 1978 TOTAL -8421.00 MEAN -23.1 MAX 228 MIN -405 AC-FT -16700

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

265501080364900 LEVEE 8 CANAL NEAR CANAL POINT, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.11	13.71	14.15	14.66	15.11	15.27	12.61	12.39	-89.95	-90.00	15.83	13.41
2	14.10	13.63	14.19	14.94	15.12	15.27	12.97	12.46	13.05	-90.01	16.04	12.86
3	14.13	13.62	14.21	14.92	15.11	15.47	12.91	12.40	13.63	-90.01	16.26	12.70
4	14.01	13.89	14.18	14.72	15.13	15.64	12.60	11.90	14.36	-90.02	16.26	12.67
5	14.00	14.05	14.19	14.44	15.11	15.39	12.11	11.54	14.76	-90.03	16.11	12.97
6	14.01	14.10	14.51	13.84	15.16	15.32	12.19	11.74	14.60	15.18	15.55	13.83
7	13.98	14.08	14.37	13.46	15.04	15.34	12.10	13.31	14.62	15.17	15.06	13.19
8	14.00	14.06	14.34	13.22	14.96	15.42	12.10	13.05	14.44	15.18	14.58	12.58
9	14.03	14.03	14.45	12.82	15.19	15.65	12.12	12.36	14.31	14.86	14.10	12.32
10	14.01	14.09	14.54	12.37	15.15	16.08	12.12	12.01	14.55	15.04	13.83	12.36
11	14.02	14.14	14.55	13.03	15.01	15.70	12.43	11.84	14.91	15.22	14.83	13.18
12	14.00	14.05	14.52	14.26	15.11	15.72	12.81	11.50	14.76	15.14	14.33	13.94
13	14.05	13.95	14.55	14.40	15.07	15.72	13.05	11.17	14.79	15.08	14.15	14.72
14	13.98	13.92	14.64	15.01	15.10	15.78	13.06	11.22	14.93	15.04	13.81	14.70
15	13.88	13.91	14.65	14.95	15.09	15.76	12.99	-90.00	15.00	15.05	13.21	14.22
16	13.92	13.88	14.66	14.78	15.05	15.84	12.57	-90.00	14.91	15.24	13.36	14.03
17	13.85	13.90	14.73	14.84	15.08	15.52	12.47	-90.00	14.73	15.30	12.92	13.78
18	13.78	13.90	14.92	14.84	15.16	13.90	12.19	-90.00	14.66	15.24	12.59	13.37
19	13.76	13.86	14.81	14.96	15.27	13.77	12.12	-90.00	14.61	15.47	12.80	13.26
20	13.74	13.84	14.79	15.22	15.19	13.60	12.61	-90.00	14.58	15.39	13.15	13.26
21	13.64	13.82	14.91	15.13	15.23	12.95	12.92	-89.99	14.23	15.33	12.78	13.18
22	13.62	13.81	14.87	15.14	15.37	12.49	12.90	-89.99	13.92	15.24	12.39	13.10
23	13.70	13.84	14.82	15.11	15.26	12.19	12.75	-89.99	14.42	15.21	12.96	13.71
24	13.62	13.94	14.80	15.08	15.29	12.28	12.57	-89.98	14.82	15.31	14.81	14.25
25	13.74	14.06	14.83	15.18	15.34	12.78	12.80	-89.98	14.75	15.29	15.35	14.29
26	13.75	14.15	14.94	15.24	15.31	12.68	13.17	-89.96	14.85	15.29	15.35	14.32
27	13.83	13.91	14.87	15.11	15.31	12.65	13.46	-89.95	14.84	15.04	15.25	14.36
28	13.75	13.96	14.59	15.25	15.28	12.16	13.40	-89.95	14.77	15.12	15.18	14.31
29	13.71	14.00	13.93	15.27	---	11.51	13.13	-89.95	14.70	15.66	14.43	14.34
30	13.60	14.07	13.85	15.12	---	11.21	12.81	-89.95	14.77	16.02	14.23	14.43
31	13.64	---	14.21	15.03	---	11.59	---	-89.95	---	15.97	13.96	---
MEAN	13.87	13.94	14.53	14.59	15.16	14.21	12.67	-43.90	11.08	-1.71	14.37	13.59
MAX	14.13	14.15	14.94	15.27	15.37	16.08	13.46	13.31	15.00	16.02	16.26	14.72
MIN	13.60	13.62	13.85	12.37	14.96	11.21	12.10	-90.00	-89.95	-90.03	12.39	12.32

CAL YR 1977 MEAN 13.80 MAX 15.00 MIN 11.40
WTR YR 1978 MEAN 7.58 MAX 16.26 MIN -90.03

EVERGLADES AND SOUTHEASTERN COASTAL AREA

265501080364900 LEVEE 8 CANAL NEAR CANAL POINT, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.61	10.29	14.44	14.39	14.70	14.88	14.56	13.50	13.38	13.18	12.86	13.06
2	12.50	10.23	14.48	14.35	13.93	14.81	14.54	13.43	13.42	13.16	12.83	13.16
3	12.40	10.97	14.47	14.53	13.38	14.80	14.52	13.40	13.49	13.13	12.77	13.42
4	12.30	12.67	14.43	14.51	12.77	14.83	14.46	13.35	13.56	13.16	12.70	13.70
5	12.14	12.77	14.44	14.46	12.11	14.87	14.54	13.37	13.57	13.11	12.69	13.76
6	11.89	12.82	14.45	14.47	11.65	14.89	14.45	13.40	13.65	13.09	12.70	13.81
7	11.94	12.78	14.46	14.47	11.40	14.92	14.29	13.42	13.72	13.08	12.72	13.83
8	12.02	12.70	14.55	14.43	11.44	14.80	14.31	13.46	13.59	13.05	12.83	13.93
9	12.05	13.12	14.41	14.40	11.97	14.75	14.31	13.51	13.57	13.03	12.80	13.90
10	12.13	13.94	14.28	14.50	12.21	14.68	14.20	13.50	13.57	13.03	12.79	13.94
11	12.18	14.04	14.39	14.48	12.22	14.85	13.46	13.32	13.59	12.97	12.83	13.92
12	12.22	14.12	14.46	14.41	12.08	14.94	13.11	13.48	13.56	12.97	12.88	13.89
13	11.98	14.16	14.42	14.35	11.88	14.99	13.61	13.53	13.55	12.96	12.87	13.88
14	11.58	14.27	14.40	14.38	11.74	14.84	14.05	13.59	13.52	12.91	12.98	13.88
15	11.70	14.25	14.40	14.65	11.75	14.81	14.09	13.59	13.54	12.88	12.99	13.86
16	11.75	14.21	14.44	14.83	11.68	14.99	14.01	13.54	13.45	12.86	13.01	13.90
17	11.76	14.25	14.44	14.84	12.35	15.00	14.01	13.47	13.43	12.87	13.01	13.88
18	11.76	14.29	14.42	14.82	13.15	14.98	13.97	13.46	13.43	12.87	13.06	13.88
19	11.54	14.29	14.40	14.89	13.59	14.91	13.87	13.42	13.46	12.89	13.10	13.90
20	11.58	14.28	14.40	14.76	13.86	14.93	13.81	13.37	13.50	12.91	13.05	13.85
21	11.61	14.34	14.47	14.73	14.08	14.82	13.77	13.33	13.49	12.92	13.12	13.93
22	11.63	14.38	14.34	14.70	14.37	14.95	13.76	13.37	13.45	12.94	13.14	13.97
23	11.68	14.31	14.28	14.76	14.58	14.81	13.80	13.41	13.40	12.96	13.08	13.98
24	11.72	14.20	14.33	14.68	14.88	14.72	13.91	13.34	13.40	12.92	13.08	14.02
25	11.81	14.06	14.34	14.58	14.84	14.73	13.94	13.35	13.40	12.93	13.05	14.05
26	11.56	14.08	14.57	14.61	14.79	14.63	13.94	13.34	13.39	12.90	13.01	14.07
27	11.00	13.95	14.52	14.60	14.84	14.59	13.78	13.33	13.31	12.89	13.06	14.15
28	10.88	14.12	14.40	14.60	14.94	14.60	13.66	13.36	13.28	12.86	13.02	14.23
29	10.86	14.23	14.39	14.62	---	14.47	13.62	13.40	13.22	12.84	13.12	14.22
30	10.76	14.39	14.36	14.65	---	14.49	13.59	13.37	13.17	12.88	13.13	14.16
31	10.53	---	14.35	14.68	---	14.55	---	13.36	---	12.86	13.14	---
MEAN	11.74	13.55	14.42	14.58	13.11	14.80	14.00	13.42	13.47	12.97	12.95	13.87
MAX	12.61	14.39	14.57	14.89	14.94	15.00	14.56	13.59	13.72	13.18	13.14	14.23
MIN	10.53	10.23	14.28	14.35	11.40	14.47	13.11	13.32	13.17	12.84	12.69	13.06

WTR YR 1977 MEAN 13.58 MAX 15.00 MIN 10.23

SOUTHERN FLORIDA

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 (15 m) above mouth and West Palm Beach Canal, 0.2 mi (0.3 km) east of pump station S-5A, and 6 mi (10 km) west of Loxahatchee.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder and gate opening indicators. Datum of gage is National Geodetic Vertical Datum of 1929. (Corps of Engineers bench mark). Prior to Sept. 30, 1967, deflection-meter recorder at same site. Auxiliary water-stage recorders above S-5A-W and below S-5A-E.

REMARKS.--Records good. 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 furnished by South Florida Water Management District.

AVERAGE DISCHARGE.--21 year, 147 ft³/s (4.16 m³/s), 106,400 acre-ft/yr (136 m³/yr).

EXTREMES FOR PERIOD OF RECORD: Maximum daily discharge, 2,190 ft³/s (62.0 m³/s) Mar. 31, 1970; maximum gage height, 19.10 ft (5.822 m) Sept. 27, 1960, from floodmark; maximum daily reverse flow, 1,270 ft³/s (36.0 m³/s) June 29, 1977; minimum gage height, 8.05 ft (2.454 m) Mar. 17, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 720 ft³/s (20.4 m³/s) Aug. 3; maximum gage height, 15.83 ft (4.825 m) July 30; maximum daily reverse flow, 349 ft³/s (9.88 m³/s) Apr. 16; minimum gage height, 9.67 ft (2.947 m) May 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	-75	.00	.00	.00	.00	-280	-154	-80	247	653	101
2	.00	-91	.00	.00	-68	.00	-283	-113	-166	128	620	119
3	121	-93	.00	62	-111	.00	-219	-3.0	-243	159	720	87
4	91	.00	.00	86	-106	.00	-129	.00	-88	131	676	82
5	.00	-62	-78	73	-101	.00	-196	86	159	.00	598	57
6	.00	-90	-42	34	-100	158	-211	-106	293	.00	506	238
7	36	-90	.00	.00	-108	55	-205	57	183	.00	463	238
8	34	-91	.00	.00	-103	.00	-160	148	118	222	654	162
9	16	-103	.00	.00	-108	86	-187	-3.0	.00	198	549	82
10	-14	-113	.00	.00	-21	172	-177	88	.00	82	241	75
11	-69	-109	159	-51	9.7	162	-158	68	.00	128	582	56
12	-108	-107	.00	68	3.8	113	-176	28	59	124	526	117
13	-142	-109	.00	-13	4.7	94	-183	-43	126	124	388	303
14	-102	-106	.00	-140	.00	81	-186	-57	122	82	373	333
15	-115	-74	.00	-71	.00	26	-326	-24	.00	122	152	253
16	-135	-67	167	-141	.00	.00	-349	-240	.00	97	648	194
17	-116	-69	296	-122	.00	.00	-296	-188	.00	208	465	191
18	-104	-70	291	-84	.00	.00	-229	.00	.00	196	183	180
19	-113	-66	268	-88	.00	.00	-22	65	.00	214	158	156
20	-137	-58	149	.00	.00	134	-58	194	97	303	152	154
21	-125	-57	165	60	.00	58	-152	112	143	296	173	97
22	-143	-61	.00	112	.00	28	-189	250	.00	287	86	75
23	-161	-67	.00	99	.00	-5.2	-207	377	.00	133	.00	74
24	-89	-68	.00	33	.00	-172	-75	359	.00	84	.00	128
25	-115	-61	.00	53	.00	-101	.00	213	.00	.00	158	163
26	-100	-18	.00	.00	.00	.00	.00	-31	262	153	261	170
27	-124	.00	58	57	.00	.00	.00	-50	363	.00	115	211
28	-167	-78	77	83	.00	.00	-158	-51	373	74	382	204
29	-97	-75	114	67	---	.00	-183	-55	251	.00	177	193
30	-82	.00	39	40	---	-237	-171	-51	385	451	105	213
31	-44	---	.00	10	---	-249	---	-56	---	619	193	---
TOTAL	-2104.00	-2128.00	1663.00	227.00	-807.80	402.80	-5165.00	820.00	2377.00	4862.00	10957.00	4706
MEAN	-67.9	-70.9	53.6	7.32	-28.9	13.0	-172	26.5	79.2	157	353	157
MAX	121	.00	296	112	9.7	172	.00	377	385	619	720	333
MIN	-167	-113	-78	-141	-111	-249	-349	-240	-243	.00	.00	56
AC-FT	-4170	-4220	3300	450	-1600	799	-10240	1630	4710	9640	21730	9330

CAL YR 1977 TOTAL -18497.50 MEAN -50.7 MAX 498 MIN -1270 AC-FT -36690
WTR YR 1978 TOTAL 15810.00 MEAN 43.3 MAX 720 MIN -349 AC-FT 31360

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02278550 LEVEE 8 CANAL AT WEST PALM BEACH CANAL, NEAR LOXAHATCHEE, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.82	12.78	12.83	14.24	12.55	12.96	11.86	11.92	12.78	13.82	11.49	12.14
2	13.31	12.75	12.42	14.40	12.74	12.95	12.19	12.07	12.68	14.43	11.56	11.16
3	12.79	12.66	12.24	14.33	12.87	12.91	12.31	11.54	13.46	14.10	11.90	11.46
4	10.69	11.97	12.06	14.15	13.00	13.53	12.10	10.96	14.09	14.26	11.80	11.61
5	12.23	12.58	12.36	13.60	13.24	13.79	11.59	11.10	14.08	14.58	11.99	12.41
6	13.01	13.05	13.57	13.00	13.29	13.10	11.85	10.46	13.11	14.74	11.28	12.89
7	12.63	13.02	14.33	12.57	12.82	12.29	11.74	10.45	13.62	14.76	11.00	11.64
8	11.32	12.90	14.17	12.07	13.11	12.57	11.76	10.14	13.45	14.09	11.07	11.18
9	11.06	12.73	13.51	12.06	12.97	12.91	11.70	10.45	13.69	13.03	11.15	10.91
10	10.77	12.99	14.09	11.47	12.71	13.07	11.48	10.66	13.99	14.39	11.13	10.87
11	10.59	13.09	13.28	10.72	10.64	12.92	11.04	11.05	14.57	14.61	12.10	11.48
12	11.10	13.15	13.26	11.10	10.69	12.88	10.82	10.33	14.76	14.30	12.03	12.46
13	11.57	13.03	13.37	10.80	10.95	12.87	10.76	10.28	14.71	14.20	11.62	12.91
14	11.58	13.20	13.58	11.00	11.73	12.74	10.63	9.96	14.45	14.08	10.63	12.62
15	11.74	13.55	13.89	10.95	11.95	12.74	11.03	9.93	14.53	14.10	10.68	12.27
16	11.92	12.94	14.00	10.85	11.73	13.01	11.35	11.24	14.40	14.38	12.03	12.47
17	11.92	12.69	13.90	11.03	12.10	13.38	11.47	11.79	14.11	14.34	10.82	12.22
18	11.68	12.59	14.09	11.22	12.40	13.58	11.66	12.25	13.98	13.67	10.89	11.78
19	11.26	12.95	13.98	12.14	12.82	13.32	11.68	13.49	13.93	14.35	10.45	11.77
20	11.48	13.54	14.27	12.89	13.02	12.82	11.10	14.11	13.75	14.33	10.49	12.13
21	11.49	13.62	14.13	13.43	13.30	12.15	11.01	14.48	12.41	14.34	10.61	12.30
22	11.48	13.33	14.92	13.29	13.64	12.01	11.14	14.54	13.00	14.31	10.85	12.40
23	12.08	12.88	14.79	13.07	13.48	11.63	11.20	14.58	13.50	14.44	11.79	12.89
24	12.37	12.84	14.77	12.84	13.37	11.90	11.24	14.66	14.71	14.57	12.86	13.39
25	12.15	13.58	14.85	12.98	13.30	11.90	10.78	13.78	14.89	14.78	12.93	13.36
26	12.04	13.90	14.84	13.73	13.22	10.51	10.69	13.09	14.41	14.20	12.70	13.45
27	11.72	12.98	14.78	13.92	13.07	10.49	10.23	12.90	13.61	14.48	14.13	13.34
28	12.17	12.68	13.74	13.69	12.90	11.16	10.70	12.85	13.64	14.51	13.56	13.22
29	13.68	13.34	12.40	12.73	---	10.72	11.43	12.88	14.02	14.93	12.45	13.39
30	14.35	13.52	12.99	12.22	---	10.90	11.67	13.05	13.41	14.79	13.25	13.39
31	13.97	---	13.71	12.11	---	11.52	---	12.94	---	12.68	11.77	---
MEAN	12.03	13.03	13.71	12.54	12.63	12.43	11.34	12.06	13.86	14.28	11.71	12.32
MAX	14.35	13.90	14.92	14.40	13.64	13.79	12.31	14.66	14.89	14.93	14.13	13.45
MIN	10.59	11.97	12.06	10.72	10.64	10.49	10.23	9.93	12.41	12.68	10.45	10.87
CAL YR 1977	MEAN 12.41		MAX 14.92	MIN 10.28								
WTR YR 1978	MEAN 12.66		MAX 14.93	MIN 9.93								

WATER RESOURCES DATA FOR FLORIDA, 1978
Volume 2A-1: South Florida

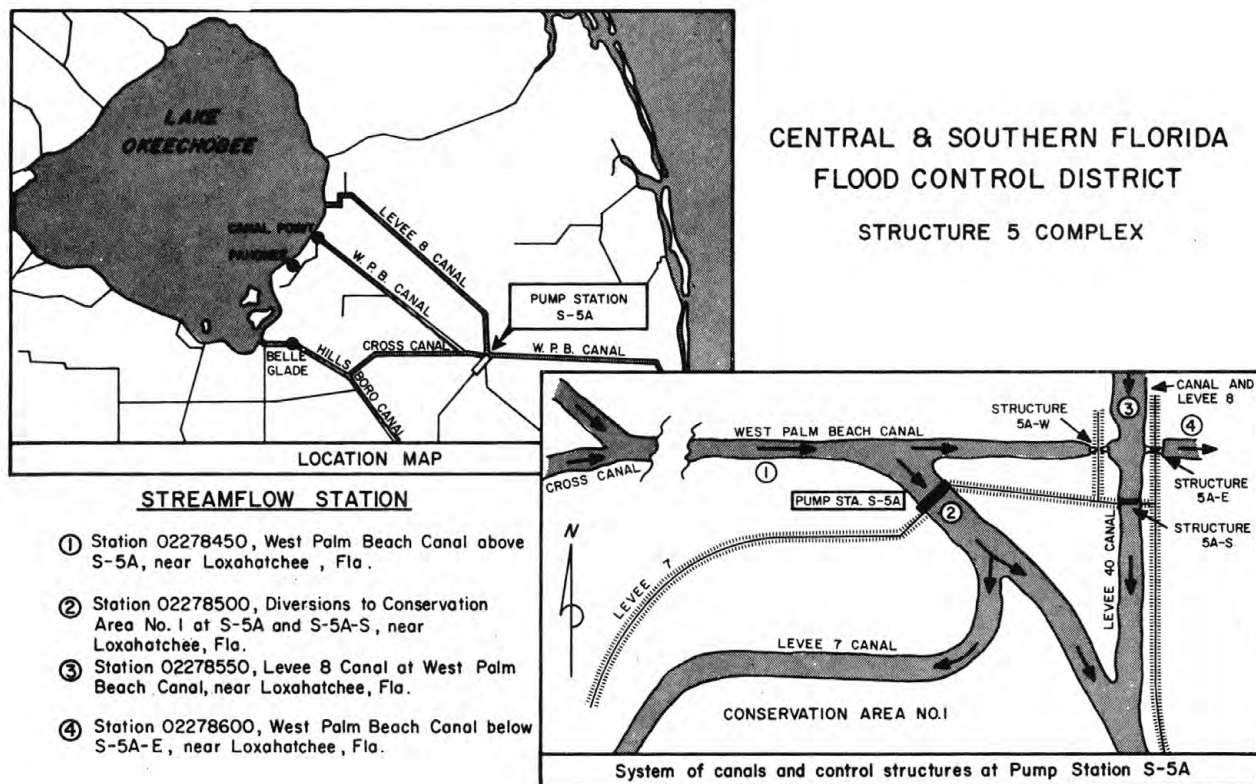


Figure 8. Central & Southern Florida Flood Control District, Structure 5 Complex.

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

02278600 WEST PALM BEACH CANAL BELOW S-5A-E, NEAR LOXAHATCHEE, FL

LOCATION.--Lat 26°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 (107 m) downstream from control structure 5A-E, and 6 mi (10 km) west of Loxahatchee.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--September 1955 to current year. Monthly discharge only for September 1955, published in WSP 1724.

GAGE.--Water-Stage recorder and gate opening indicator. Datum of gage is National Geodetic Vertical Datum of 1929. (Corps of Engineers bench mark). Auxiliary water-stage recorder in Levee 8 Canal 50 ft (15 m) above S-5A-E.

REMARKS.--Records good. Normal flow to east regulated at S-5A-E for irrigation and drainage. Flow diverted above station through S-5A-S and by pumpage at S-5A. Flow materially affected by regulation of Cross Canal 1.5 mi (2.4 km) upstream and hurricane gate structure 5, 20 mi (32 km) 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 furnished by South Florida Water Management District.

AVERAGE DISCHARGE.--23 year, 198 ft³/s (5.61 m³/s), 143,300 acre-ft/yr (177 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 960 ft³/s (27.2 m³/s) Oct. 3, 1959; maximum gage height, 16.13 ft (4.916 m) Sept. 26, 1960; maximum daily reverse flow, 811 ft³/s (23.0 m³/s) Sept. 3, 1977; minimum gage height, 6.00 ft (1.829 m) Sept. 9, 1965.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 648 ft³/s (18.4 m³/s) Aug. 16; maximum gage height, 12.99 ft (3.959 m) Dec. 17; height 7.12 ft (2.170 m) May 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	59	.00	.00	.00	101
2	.00	.00	.00	.00	.00	.00	.00	133	.00	.00	.00	119
3	.00	.00	.00	.00	.00	.00	.00	61	.00	.00	.00	87
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	393	82
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	181	57
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	27
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	49	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	240	.00	.00	.00	27
10	.00	.00	.00	.00	.00	.00	67	242	.00	.00	.00	75
11	.00	.00	.00	.00	.00	.00	242	68	.00	.00	582	56
12	.00	.00	.00	.00	.00	.00	267	142	.00	.00	508	117
13	.00	.00	.00	.00	.00	.00	262	139	.00	.00	69	303
14	.00	.00	.00	.00	.00	.00	175	126	.00	.00	.00	333
15	.00	.00	.00	.00	.00	.00	134	126	.00	.00	.00	253
16	.00	.00	.00	.00	.00	.00	139	167	.00	.00	648	194
17	.00	.00	.00	.00	.00	.00	152	114	.00	.00	465	191
18	.00	.00	.00	.00	.00	.00	171	.00	.00	.00	183	180
19	.00	.00	.00	.00	.00	.00	175	.00	.00	.00	158	156
20	.00	.00	.00	.00	.00	.00	161	.00	.00	.00	152	154
21	.00	.00	.00	.00	.00	.00	159	.00	.00	.00	173	97
22	.00	.00	.00	.00	.00	.00	163	.00	.00	.00	86	75
23	.00	.00	.00	.00	.00	.00	160	.00	.00	.00	.00	74
24	.00	.00	.00	.00	.00	.00	52	.00	.00	.00	.00	128
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	163
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	170
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	211
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	382	204
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	117	193
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	213
31	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	.00	.00	.00	.00	.00	.00	2479.00	1666.00	.00	.00	4097.00	4040.00
MEAN	.000	.000	.000	.000	.000	.000	82.6	53.7	.000	.000	132	135
MAX	.00	.00	.00	.00	.00	.00	267	242	.00	.00	648	333
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	4920	3300	.00	.00	8130	8010

CAL YR 1977	TOTAL	1557.00	MEAN	4.27	MAX	190	MIN	-811	AC-FT	3090
WTR YR 1978	TOTAL	12282.00	MEAN	33.6	MAX	648	MIN	.00	AC-FT	24360

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02278600 WEST PALM BEACH CANAL BELOW S-5A-E, NEAR LOXAHATCHEE, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.51	8.15	8.86	8.59	8.65	8.54	8.42	7.89	8.12	8.66	10.51	7.76
2	8.42	8.23	8.32	8.62	8.50	8.57	8.43	8.16	7.94	8.86	10.92	8.07
3	8.34	8.36	8.34	8.84	8.54	8.72	8.33	8.33	7.98	8.89	9.83	8.22
4	8.36	8.32	8.35	8.34	8.50	8.36	8.12	7.89	8.48	8.87	10.16	8.75
5	8.31	8.46	8.29	8.14	8.44	8.37	8.03	7.86	9.64	8.80	10.38	10.96
6	8.18	8.55	8.73	8.26	8.41	8.30	7.98	7.40	9.66	8.79	9.01	9.95
7	8.56	8.46	8.52	8.33	8.15	8.31	7.90	7.51	9.24	9.24	9.08	9.33
8	8.41	8.44	8.39	8.44	8.17	8.30	7.81	7.72	8.59	8.72	8.87	8.78
9	8.35	8.39	8.81	8.57	8.95	9.50	7.74	8.44	8.50	8.82	8.03	8.73
10	8.27	8.28	10.12	8.38	8.77	8.52	7.90	9.01	8.47	8.97	7.64	8.49
11	8.17	8.25	9.06	8.16	8.57	8.42	8.47	8.09	8.48	8.50	9.27	8.51
12	8.05	8.08	8.76	8.23	8.53	8.49	8.94	8.21	8.24	7.95	11.01	9.03
13	7.99	7.99	8.69	8.52	8.61	8.62	8.94	8.24	8.61	8.31	10.83	9.26
14	7.90	7.99	9.80	8.58	8.57	8.56	8.95	8.27	8.55	8.36	9.01	9.68
15	7.86	7.97	9.38	8.33	8.53	8.45	9.11	8.16	8.28	8.49	8.85	9.71
16	7.83	8.11	9.39	8.19	8.46	8.57	9.31	8.25	7.97	8.48	9.28	9.70
17	7.79	8.26	12.30	8.04	8.99	8.55	9.01	8.24	7.96	8.68	9.26	9.55
18	7.86	8.26	10.72	7.68	8.39	8.41	8.55	8.21	8.00	9.28	9.26	9.41
19	7.94	8.30	9.93	9.10	8.10	8.40	8.43	9.02	8.10	10.22	9.27	9.97
20	7.98	8.31	9.49	11.64	8.73	8.37	8.36	8.76	8.02	10.21	9.39	9.31
21	8.08	8.31	8.75	10.73	9.07	8.30	8.36	8.55	8.19	8.77	9.12	8.80
22	8.16	8.24	8.34	8.71	8.78	8.21	8.33	8.39	8.49	8.83	8.38	8.69
23	8.34	8.21	8.48	9.15	8.40	8.10	8.52	8.30	8.33	8.34	7.90	9.25
24	8.52	9.09	8.80	9.55	8.24	8.13	8.57	8.02	8.18	8.30	8.32	9.43
25	8.38	8.43	9.10	9.22	8.22	8.24	8.43	7.84	9.01	8.13	8.92	10.68
26	8.34	8.39	8.97	8.52	8.32	8.26	8.24	7.77	8.73	7.40	8.43	11.30
27	8.06	8.52	8.55	8.58	8.34	8.14	8.23	7.80	9.69	7.74	8.16	10.05
28	8.01	8.46	8.51	8.52	8.33	8.14	8.05	7.89	10.26	8.04	9.07	10.17
29	8.07	8.61	8.63	8.50	---	8.30	7.96	8.33	9.35	8.95	8.80	10.67
30	8.16	9.26	8.84	8.86	---	8.43	7.88	8.80	8.52	11.09	7.72	10.06
31	8.16	---	8.76	8.74	---	8.53	---	8.60	---	10.36	7.58	---
MEAN	8.17	8.36	9.03	8.71	8.51	8.42	8.38	8.19	8.59	8.81	9.11	9.41
MAX	8.56	9.26	12.30	11.64	9.07	9.50	9.31	9.02	10.26	11.09	11.01	11.30
MIN	7.79	7.97	8.29	7.68	8.10	8.10	7.74	7.40	7.94	7.40	7.58	7.76

CAL YR 1977 MEAN 8.56 MAX 13.78 MIN 7.44
WTR YR 1978 MEAN 8.64 MAX 12.30 MIN 7.40

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02279000 WEST PALM BEACH CANAL AT WEST PALM BEACH, FL

LOCATION.--Lat 26°38'40", long 80°03'24", in NE¼ sec.16, T.44 S., R.43 E., Palm Beach County, Hydrologic Unit 03090202, on left bank at upstream side of lock and control structure, 20 ft (6.1 m) upstream from bridge on U.S. Highway 1, and 4.9 mi (7.9 km) south of courthouse in West Palm Beach.

DRAINAGE AREA.--Indeterminate.

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

GAGE.--Water-stage recorder, sharp crested weir, and gate opening indicator. Datum of gage is National Geodetic Vertical Datum of 1929. (State Department of Transportation bench mark). Prior to Apr. 26, 1940, nonrecording gage, Apr. 26, 1940, to Dec. 20, 1949, water-stage recorder, at same site at datum 0.25 ft (0.076 m) higher, and Dec. 20, 1949, to June 3, 1959, at same site and present datum. June 3, 1959, to Sept. 30, 1965, water-stage and deflection-meter recorder at site 800 ft (244 m) upstream at present datum.

REMARKS.--Records fair. Flow regulated by operation of control structure and gates in lock chamber for irrigation and drainage purposes. Lock chamber not used for navigation. Since January 1954, flow affected by control structures 20 mi (32 km) upstream. Discharge computed from relations between discharge, head, and gate openings.

COOPERATION.--Water-stage recorder graph, stoplog and gate-operation record furnished by South Florida Water Management District.

AVERAGE DISCHARGE.--38 years, 752 ft³/s (21.3 m³/s), 544,400 acre-ft/yr (671 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 5,320 ft³/s (151 m³/s) Apr. 18, 1942; maximum gage height, 10.89 ft (3.319 m) Oct. 13, 1947, present datum; flow consists of leakage estimated as 10 ft³/s (0.28 m³/s) for many days in 1967-1977; minimum gage height, 2.85 ft (0.869 m) Dec. 3, 1953; Oct. 9, 1963, and Sept. 9, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Oct. 23, 24, 1924 reached at stage of 13.20 ft (4.023 m); present datum, from records by Everglades Drainage District, discharge 8,570 ft³/s (243 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,970 ft³/s (55.8 m³/s) Jan. 20; maximum gage height 9.05 ft (2.758 m) Nov. 24; flow consists of leakage estimated as 10 ft³/s (0.28 m³/s) for many days; minimum gage height, 5.87 ft (1.789 m) May 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	464	63	444	111	136	87	96	10	176	357	1370	199
2	466	73	228	93	103	108	94	10	145	471	1780	215
3	457	79	81	354	79	610	72	10	160	503	993	223
4	465	86	83	427	95	582	54	10	443	500	760	300
5	445	111	83	166	110	71	42	1330	591	1190	1050	702
6	349	118	105	57	106	64	32	514	474	958	1340	846
7	317	110	380	543	70	68	18	10	516	1140	485	790
8	337	99	169	850	57	75	10	10	421	942	124	714
9	331	89	728	910	143	537	10	10	349	706	53	640
10	321	73	1220	843	147	891	10	10	351	888	12	598
11	307	71	797	816	126	58	10	10	346	951	487	565
12	280	49	459	825	120	85	10	10	330	836	1030	576
13	263	40	295	874	125	106	10	10	373	416	1020	586
14	247	35	615	905	126	113	12	10	375	443	791	624
15	232	30	690	850	116	104	21	10	322	668	444	660
16	228	52	651	812	104	116	46	10	291	871	159	677
17	115	76	640	778	496	107	28	10	294	919	360	675
18	22	83	580	270	748	98	10	10	309	1010	669	617
19	36	75	895	982	496	82	10	119	321	1490	771	614
20	39	71	500	1970	66	77	10	245	322	1670	631	409
21	46	67	1400	1620	145	74	10	240	368	768	328	274
22	52	63	801	582	134	65	10	226	445	804	289	300
23	85	71	193	125	86	50	10	202	996	886	283	402
24	105	152	109	252	66	46	10	161	909	836	311	468
25	77	75	603	857	64	52	15	56	1130	807	377	966
26	70	81	940	426	63	64	15	11	1240	403	375	1470
27	47	94	436	98	63	63	10	12	1290	217	331	724
28	43	105	163	112	62	49	10	30	1850	269	320	459
29	44	174	110	111	---	71	10	83	1590	344	343	724
30	47	497	122	128	---	90	10	186	619	974	271	903
31	53	---	138	137	---	104	---	265	---	1160	231	---
TOTAL	6390	2862	14658	17884	4252	4767	715	3840	17346	24397	17788	17920
MEAN	206	95.4	473	577	152	154	23.8	124	578	787	574	597
MAX	466	497	1400	1970	748	891	96	1330	1850	1670	1780	1470
MIN	22	30	81	57	57	46	10	10	145	217	12	199
AC-FT	12670	5680	29070	35470	8430	9460	1420	7620	34410	48390	35280	35540

CAL YR 1977	TOTAL	104276	MEAN	286	MAX	4120	MIN	10	AC-FT	206800
WTR YR 1978	TOTAL	132819	MEAN	364	MAX	1970	MIN	10	AC-FT	263400

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02279000 WEST PALM BEACH CANAL AT WEST PALM BEACH, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.12	8.33	8.33	8.61	8.74	8.48	8.52	7.91	8.21	8.21	8.37	7.37
2	8.13	8.40	8.32	8.51	8.56	8.59	8.51	7.94	8.06	8.56	8.08	7.45
3	8.09	8.43	8.45	8.58	8.44	8.48	8.39	8.07	8.14	8.66	7.18	7.48
4	8.12	8.47	8.46	8.23	8.52	7.82	8.26	7.94	8.29	8.65	6.95	7.78
5	8.05	8.61	8.46	8.05	8.60	8.39	8.16	7.83	8.41	7.97	7.40	8.28
6	8.02	8.65	8.57	8.28	8.58	8.33	8.09	6.66	8.83	7.20	7.80	8.32
7	8.26	8.60	8.44	8.36	8.37	8.36	8.03	7.55	8.69	7.87	7.64	8.16
8	8.32	8.54	8.47	8.46	8.28	8.41	7.99	7.60	8.41	7.49	7.22	7.94
9	8.31	8.49	8.43	8.71	8.78	8.58	7.92	7.71	8.18	8.13	6.80	7.71
10	8.27	8.40	7.75	8.43	8.80	7.69	7.87	8.10	8.19	8.18	6.31	7.55
11	8.22	8.39	8.19	8.29	8.68	8.28	7.95	8.01	8.17	7.71	6.72	7.42
12	8.13	8.22	8.34	8.34	8.66	8.47	8.23	8.03	8.12	7.27	7.97	7.46
13	8.07	8.15	8.56	8.56	8.68	8.58	8.39	8.14	8.26	7.38	8.27	7.50
14	8.00	8.12	8.73	8.69	8.69	8.62	8.49	8.23	8.27	7.83	7.79	7.65
15	7.93	8.08	8.60	8.46	8.63	8.57	8.57	8.19	8.09	8.01	7.56	7.77
16	7.91	8.24	8.42	8.28	8.57	8.63	8.77	8.13	7.99	7.97	7.41	7.83
17	7.88	8.42	8.36	8.03	8.55	8.59	8.62	8.17	8.00	7.60	7.56	7.82
18	8.01	8.46	7.97	7.73	7.84	8.53	8.37	8.08	8.05	7.56	8.01	7.63
19	8.12	8.41	7.55	7.92	7.68	8.45	8.28	8.48	8.09	7.27	8.32	7.62
20	8.15	8.38	8.62	7.63	8.34	8.43	8.28	8.53	8.10	6.66	8.46	7.70
21	8.20	8.36	8.29	7.56	8.79	8.40	8.29	8.51	8.24	7.09	8.12	7.70
22	8.24	8.33	8.14	7.51	8.73	8.34	8.25	8.44	8.49	7.89	7.88	7.79
23	8.46	8.38	8.25	8.68	8.47	8.23	8.24	8.34	8.17	7.47	7.73	8.12
24	8.57	8.82	8.59	8.96	8.35	8.19	8.39	8.14	7.32	7.27	7.83	8.32
25	8.42	8.40	8.81	8.45	8.33	8.24	8.53	7.97	8.40	7.16	8.04	8.36
26	8.38	8.44	8.83	8.02	8.33	8.33	8.51	7.92	7.45	7.08	8.04	7.98
27	8.20	8.52	8.25	8.54	8.32	8.33	8.38	7.95	7.63	7.68	7.90	7.73
28	8.17	8.57	8.45	8.61	8.32	8.22	8.24	8.09	7.67	7.91	7.86	8.30
29	8.18	8.58	8.60	8.60	---	8.38	8.10	8.46	6.51	8.17	7.93	8.58
30	8.20	8.60	8.73	8.70	---	8.50	8.00	8.69	6.98	8.53	7.68	8.48
31	8.25	---	8.81	8.74	---	8.57	---	8.61	---	8.33	7.52	---
MEAN	8.17	8.43	8.41	8.34	8.49	8.39	8.29	8.08	8.05	7.77	7.69	7.86
MAX	8.57	8.82	8.83	8.96	8.80	8.63	8.77	8.69	8.83	8.66	8.46	8.58
MIN	7.88	8.08	7.55	7.51	7.68	7.69	7.87	6.66	6.51	6.66	6.31	7.37
CAL YR 1977	MEAN	8.24	MAX	8.99	MIN	6.13						
WTR YR 1978	MEAN	8.16	MAX	8.96	MIN	6.31						

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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 (4.6 m) from south bank, 200 ft (61.01 m) downstream from North New River Canal, 1,000 ft (305 m) downstream from hurricane gate structure 4 and pump station 2 at Lake Okeechobee, and 2.5 mi (4.0 km) north of South Bay.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1957 to current year.

GAGE.--Deflection-meter recorder. Dual water-stage recorder in pump station 2 used for gage heights at this station. Datum of gage is National Geodetic Datum of 1929 (Corps of Engineers bench mark).

REMARKS.--Records fair. 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 recording deflection meter. See records for North New River Canal below HGS-4, near South Bay (station 02283500) for table of daily gage height.

AVERAGE DISCHARGE.--21 years, -38.8 ft³/s (-1.10 m³/s), -28,090 acre-ft/yr (-34.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 948 ft³/s (26.8 m³/s) May 5, 1966; maximum gage height, 14.09 ft (4.295 m) Sept. 28, 1962; maximum daily reverse flow, 1,760 ft³/s (49.8 m³/s) Mar. 30, 1970; minimum gage height, 8.60 ft (2.621 m) Sept. 23, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 576 ft³/s (16.3 m³/s) May 16; maximum gage height, 13.38 ft (4.078 m) Dec. 17; maximum daily reverse flow, 816 ft³/s (23.2 m³/s) May 7; minimum gage height, 9.45 ft (2.880 m) Nov. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-158	167	-264	-122	-136	126	291	383	473	-148	-368	-45
2	-348	132	-251	-117	-111	75	286	397	476	-213	-507	-104
3	-88	156	-189	-107	-95	-205	239	-243	-83	-40	-592	-273
4	-278	-473	-61	-126	-94	-155	290	-333	-91	-168	-413	-188
5	-171	-680	-206	-167	-92	-12	255	-193	-342	-123	-331	-366
6	-30	-422	-334	-169	-47	-48	262	-708	-304	-576	-379	-197
7	-23	-192	-127	-173	260	-63	304	-816	-236	-374	-407	86
8	-137	2.7	-120	-174	193	-69	244	-691	-269	-326	-23	-79
9	-124	36	-346	28	-318	-511	229	-424	-139	-85	-168	-29
10	-55	139	-669	-155	108	-568	293	-336	19	-231	-61	-90
11	-64	341	-338	-161	33	-181	415	-170	-48	-143	-131	-485
12	106	338	-388	-168	-54	-15	493	44	-309	-133	-127	-430
13	220	329	-334	-280	-81	-41	352	121	-157	-77	-191	-200
14	267	102	-393	-204	-109	-80	261	158	-20	79	-461	-236
15	340	179	-268	-193	-119	-79	276	246	39	14	-335	-389
16	355	73	-336	-195	-117	-73	-130	576	37	5.0	-129	-47
17	363	127	-447	-269	-355	71	220	396	29	-137	-338	104
18	333	185	-601	-188	-170	97	243	-430	38	-378	-180	-164
19	339	135	-301	-384	107	77	18	-724	11	-437	102	-196
20	426	85	-269	-480	-123	184	204	-486	-35	-697	82	-101
21	399	80	-291	-222	-118	208	439	30	25	-412	-162	-107
22	387	105	-206	-330	66	107	430	-230	112	-288	-102	-44
23	361	62	-98	-280	56	114	388	30	103	-266	-108	-383
24	252	-462	-148	-376	102	175	98	243	90	-215	-245	-498
25	363	-286	-179	-340	66	159	-89	404	-11	-150	-336	-662
26	381	-177	-100	-174	41	-7.2	-95	398	-15	-139	-17	-501
27	351	-189	-125	-141	35	202	-91	295	-175	-134	-16	-181
28	322	-177	-84	-176	-1.5	86	183	30	-342	-96	21	-195
29	372	-399	-119	-131	---	-93	330	-152	-278	-176	-14	-78
30	350	-521	-133	-209	---	186	342	50	-139	-539	12	60
31	255	---	-116	-231	---	276	---	356	---	-391	-352	---
TOTAL	5066	-1204.3	-7841	-6414	-1073.5	-57.2	6980	-1779	-1541	-6994.0	-6483	-6018
MEAN	163	-40.1	-253	-207	-38.3	-1.85	233	-57.4	-51.4	-226	-209	-201
MAX	426	341	-61	28	260	276	493	576	476	79	102	104
MIN	-348	-680	-669	-480	-355	-568	-130	-816	-342	-697	-592	-662
AC-FT	10050	-2390	-15550	-12720	-2130	-113	13840	-3530	-3060	-13870	-12860	-11940

CAL YR 1977 TOTAL -10790.50 MEAN -29.6 MAX 573 MIN -851 AC-FT -21400
WTR YR 1978 TOTAL -27359.00 MEAN -75.0 MAX 576 MIN -816 AC-FT -54270

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

262300080263501 EVERGLADES 159 SOUTH OF PUMP STATION 6 NEAR ANDYTOWN, FL

LOCATION.--Lat 26°33'00", long 80°26'35", in NE¼ sec.15, T.47 S., R.39 E., Palm Beach County, Hydrologic Unit 03090202, in conservation area 6.0 mi (9.7 km) south of pumping station 6, 12.8 mi (20.6 km) west of State Highway 441, and 16.2 mi (26.1 km) north of Andytown.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1976 to current year (gage heights).

GAGE.--Water-stage recorder and Data Collection Platform (DCP). Datum of gage is National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 14.86 ft (4.529 m) Sept. 25, 26, Oct. 3, 1977; minimum, 12.70 ft (3.871 m) May 3, 4, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 14.86 ft (4.529 m) Oct. 3; minimum, 13.29 ft (4.051 m) June 4.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.77	13.80	13.77	14.03	14.62	14.52	13.96	13.71	13.34	13.97	14.08	13.83
2	14.83	13.78	13.77	14.05	14.60	14.49	13.96	13.70	13.32	14.13	14.09	13.85
3	14.83	13.77	13.76	14.07	14.58	14.49	13.95	13.71	13.31	14.10	14.20	13.90
4	14.75	13.79	13.76	14.09	14.56	14.53	13.95	13.69	13.31	14.10	14.23	13.90
5	14.65	13.88	13.75	14.10	14.54	14.51	13.94	13.69	13.37	14.09	14.27	14.02
6	14.57	13.89	13.76	14.11	14.53	14.48	13.93	13.69	13.39	14.13	14.33	14.00
7	14.49	13.89	13.78	14.12	14.52	14.45	13.93	13.68	13.41	14.14	14.37	13.97
8	14.42	13.91	13.77	14.13	14.51	14.43	13.92	13.66	13.39	14.13	14.40	13.95
9	14.36	13.91	13.79	14.17	14.58	14.45	13.91	13.65	13.37	14.12	14.43	13.92
10	14.31	13.90	13.88	14.19	14.59	14.48	13.89	13.63	13.36	14.11	14.44	13.88
11	14.27	13.89	13.88	14.25	14.59	14.46	13.87	13.62	13.34	14.10	14.45	13.86
12	14.22	13.86	13.89	14.27	14.58	14.43	13.86	13.60	13.35	14.10	14.50	13.84
13	14.18	13.84	13.90	14.28	14.57	14.40	13.84	13.60	13.38	14.10	14.57	13.82
14	14.14	13.83	13.91	14.29	14.57	14.37	13.83	13.58	13.43	14.08	14.49	13.80
15	14.10	13.81	13.93	14.31	14.55	14.31	13.85	13.55	13.41	14.06	14.43	13.79
16	14.07	13.81	13.96	14.33	14.55	14.29	13.83	13.53	13.40	14.09	14.38	13.83
17	14.04	13.80	14.03	14.37	14.58	14.25	13.82	13.50	13.40	14.15	14.33	13.82
18	14.01	13.79	14.03	14.39	14.61	14.21	13.81	13.50	13.39	14.12	14.28	13.79
19	13.98	13.78	14.03	14.40	14.66	14.18	13.80	13.51	13.44	14.09	14.24	13.81
20	13.96	13.77	14.04	14.57	14.65	14.15	13.79	13.51	13.50	14.06	14.20	13.79
21	13.94	13.76	14.05	14.59	14.67	14.13	13.77	13.49	13.53	14.04	14.19	13.77
22	13.92	13.75	14.04	14.60	14.66	14.10	13.75	13.47	13.60	14.02	14.16	13.76
23	13.91	13.75	14.03	14.60	14.64	14.07	13.73	13.44	13.63	14.00	14.14	13.74
24	13.90	13.77	14.03	14.61	14.63	14.05	13.74	13.42	13.72	13.99	14.13	13.73
25	13.89	13.77	14.03	14.63	14.60	14.02	13.77	13.40	13.75	13.96	14.08	13.73
26	13.88	13.77	14.05	14.64	14.58	14.00	13.77	13.39	13.74	13.93	14.04	13.74
27	13.86	13.77	14.04	14.63	14.56	13.98	13.77	13.37	13.77	13.91	13.99	13.75
28	13.85	13.76	14.03	14.62	14.54	13.97	13.75	13.37	13.79	13.89	13.95	13.74
29	13.83	13.75	14.03	14.62	---	13.99	13.74	13.38	13.81	13.91	13.91	13.74
30	13.82	13.76	14.02	14.62	---	13.98	13.72	13.37	13.84	14.09	13.89	13.77
31	13.81	---	14.02	14.62	---	13.97	---	13.35	---	14.05	13.86	---
MEAN	14.18	13.81	13.93	14.36	14.59	14.26	13.84	13.54	13.49	14.06	14.23	13.83
MAX	14.83	13.91	14.05	14.64	14.67	14.53	13.96	13.71	13.84	14.15	14.57	14.02
MIN	13.81	13.75	13.75	14.03	14.51	13.97	13.72	13.35	13.31	13.89	13.86	13.73

CAL YR 1977 MEAN 13.62 MAX 14.86 MIN 12.71
WTR YR 1978 MEAN 14.01 MAX 14.83 MIN 13.31

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02281200 HILLSBORO CANAL AT S-6, NEAR SHAWANO, FL

LOCATION.--Lat 26°28'18", long 80°26'46", in NE¼ sec.4, T.46 S., R.39 E., Palm Beach County, Hydrologic Unit 03090202, at pump station 6, and 7 mi (11 km) southeast of Shawno.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1957 to September 1968 (gage heights and discharge). October 1968 to current year.

GAGE.--Dual water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. (Corps of Engineers bench mark). prior to Oct. 1, 1959, at datum 0.44 ft (0.134 m) lower.

REMARKS.--Flow regulated by pumpage at S-6, by hurricane gate structure 4 and pump station 2 at Lake Okeechobee and by drainage and irrigation pumps upstream. Records include flow from Levee 6 Canal since Mar. 15, 1966.

COOPERATION.--Records furnished by South Florida Water Management District since October 1968. Prior to October 1968, pump records furnished by South Florida Water Management District, and records computed by U.S. Geological Survey.

AVERAGE DISCHARGE.--21 years, 235 ft³/s (6.66 m³/s), 170,100 acre-ft/yr (210 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,970 ft³/s (84.1 m³/s) June 9, 1966; maximum daily gage height, 14.95 ft (4.557 m) Sept. 11, 1978 no flow for many days each year; minimum gage height, 7.35 ft (2.240 m) May 14, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,080 ft³/s (58.9 m³/s) Dec. 18; maximum daily gage height, 14.95 ft (4.557 m) Sept. 11; no flow for many days; minimum daily gage height, 10.04 ft (3.060 m) Aug. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	159	.00	.00	.00	.00	.00	.00	.00	926	318
2	.00	.00	291	.00	.00	.00	.00	.00	.00	.00	1520	.00
3	.00	.00	.00	435	.00	735	.00	615	.00	495	1890	.00
4	165	557	.00	.00	.00	382	.00	736	.00	.00	1540	.00
5	259	1420	219	.00	.00	.00	.00	432	234	541	834	65
6	.00	902	797	.00	.00	.00	.00	1000	471	1220	937	250
7	.00	395	542	.00	.00	.00	.00	1760	540	1010	841	275
8	.00	375	.00	.00	.00	.00	.00	1250	581	667	474	.00
9	.00	.00	715	545	1020	1120	.00	.00	384	264	164	.00
10	.00	302	1740	.00	440	416	.00	351	.00	460	110	.00
11	.00	.00	1080	.00	.00	.00	.00	.00	.00	327	354	473
12	.00	.00	625	.00	.00	.00	.00	.00	224	883	344	368
13	.00	.00	417	384	.00	.00	.00	.00	.00	90	489	266
14	.00	.00	403	.00	.00	.00	.00	.00	.00	319	.00	.00
15	.00	.00	428	.00	.00	.00	.00	.00	.00	383	.00	451
16	.00	.00	571	.00	.00	.00	.00	.00	.00	558	.00	894
17	.00	.00	1860	.00	715	.00	.00	.00	.00	515	469	460
18	.00	.00	2080	.00	319	.00	.00	779	.00	788	378	.00
19	.00	.00	859	532	560	.00	.00	1050	66	516	.00	.00
20	.00	.00	430	1610	513	.00	.00	667	.00	1010	.00	.00
21	.00	.00	303	838	280	.00	.00	.00	.00	848	360	.00
22	.00	.00	.00	.00	.00	.00	.00	350	.00	216	320	169
23	.00	.00	.00	456	.00	.00	.00	.00	351	.00	.00	.00
24	.00	884	.00	348	.00	.00	1300	.00	.00	378	280	.00
25	.00	627	.00	423	.00	.00	730	.00	.00	.00	.00	401
26	.00	.00	.00	.00	.00	.00	.00	.00	926	.00	.00	.00
27	.00	.00	494	.00	.00	.00	.00	.00	512	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	368	97	.00	.00
29	.00	787	.00	.00	---	.00	.00	.00	173	.00	.00	.00
30	.00	888	.00	.00	---	.00	.00	.00	256	1080	385	.00
31	.00	---	.00	.00	---	.00	---	.00	---	1040	.00	---
TOTAL	424.00	7137.00	14013.00	5571.00	3847.00	2653.00	2030.00	8990.00	5472.00	13705.00	12615.00	4390.00
MEAN	13.7	238	452	180	137	85.6	67.7	290	182	442	407	146
MAX	259	1420	2080	1610	1020	1120	1300	1760	926	1220	1890	894
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	841	14160	27790	11050	7630	5260	4030	17830	10850	27180	25020	8710

CAL YR 1977 TOTAL 93439.00 MEAN 256 MAX 2750 MIN .00 AC-FT 185300
WTR YR 1978 TOTAL 80847.00 MEAN 221 MAX 2080 MIN .00 AC-FT 160400

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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 (1.1 km) west of U.S. Highway 441, and 5.1 (8.2 km) north of Margate, Fla.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1975 to current year.

GAGE.--Water-stage and deflection-meter recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Flow affected by regulation downstream at Deerfield Beach and upstream storage releases at control structure S-39. Negative figures indicate flow to the west.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 717 ft³/s (20.3 m³/s) Sept. 26, 1978; maximum gage height, 9.32 ft (2.841 m) Jan. 14, 1977; maximum daily reverse flow, 74 ft³/s (2.10 m³/s) Nov. 20, 1976; minimum gage height, 4.15 ft (1.265 m) May 20, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 717 ft³/s (20.3 m³/s) Sept. 26; maximum gage height, 8.98 ft (2.737 m) Dec. 17; minimum daily discharge, 53 ft³/s (1.50 m³/s) Apr.19; minimum gage height, 4.15 ft (1.265 m) May 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	254	189	201	167	217	163	100	212	152	198	326	333
2	133	186	172	111	203	161	64	165	146	206	330	341
3	141	167	148	170	218	178	126	204	159	154	280	411
4	118	154	126	159	219	377	173	127	178	139	281	366
5	94	240	174	111	235	179	161	95	150	126	210	370
6	95	234	208	131	190	147	109	113	160	158	267	364
7	104	132	254	136	178	132	113	136	160	231	300	343
8	98	132	153	105	237	180	131	189	169	214	259	334
9	87	156	187	195	346	368	143	222	165	243	303	349
10	80	168	437	134	295	431	253	176	124	192	524	358
11	78	92	346	151	216	218	170	141	125	209	522	375
12	140	86	272	151	174	160	186	127	127	145	438	373
13	170	87	230	190	139	153	117	150	125	156	351	403
14	145	106	184	172	199	167	143	155	171	128	351	357
15	123	179	222	143	175	191	174	151	163	162	263	344
16	168	175	208	174	221	167	104	149	127	146	187	335
17	175	237	290	212	304	139	138	150	125	145	190	321
18	130	193	346	220	263	115	122	213	61	155	192	330
19	133	196	176	252	361	103	53	283	169	157	196	638
20	152	182	186	383	343	159	113	192	205	154	163	538
21	128	178	98	233	296	180	138	201	181	153	123	368
22	111	173	58	230	250	163	112	135	224	151	233	355
23	145	162	68	201	185	205	89	123	193	148	277	450
24	153	241	67	183	190	195	89	143	285	146	312	360
25	155	361	66	170	257	152	98	132	308	146	284	518
26	115	166	233	148	349	219	172	146	339	93	319	717
27	155	135	207	142	278	220	140	114	316	83	338	476
28	149	157	140	132	196	156	175	149	369	87	348	372
29	183	167	128	137	---	205	161	165	350	159	354	364
30	181	199	120	264	---	145	163	167	330	160	360	376
31	176	---	106	329	---	128	---	163	---	240	346	---
TOTAL	4269	5230	5811	5636	6754	5856	4030	4988	5856	4984	9227	11939
MEAN	138	174	187	182	241	189	134	161	195	161	298	398
MAX	254	361	437	383	381	431	253	283	369	243	524	717
MIN	78	86	58	105	139	103	53	95	61	83	123	321
AC-FT	8470	10370	11530	11180	13400	11620	7990	9890	11620	9890	18300	23680

CAL YR 1977 TOTAL 47225.70 MEAN 129 MAX 704 MIN -25 AC-FT 93670
WTR YR 1978 TOTAL 74580.00 MEAN 204 MAX 717 MIN 53 AC-FT 147900

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

02281400 HILLSBORO CANAL NEAR MARGATE, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.01	7.78	7.71	7.35	7.02	7.01	7.45	6.83	7.50	7.37	8.02	7.65
2	6.86	7.60	7.19	7.16	7.08	7.38	7.26	7.49	7.17	7.75	7.94	7.65
3	7.24	7.16	6.92	7.67	7.83	7.61	6.71	7.52	7.75	7.65	7.91	7.77
4	7.28	6.91	6.42	7.28	7.89	7.79	6.89	6.97	7.62	7.56	7.86	7.29
5	7.15	7.83	6.35	7.45	7.81	7.61	7.63	7.17	7.86	7.59	7.98	7.56
6	7.01	7.55	7.80	7.48	7.07	7.19	7.62	7.33	7.95	7.77	8.09	7.62
7	7.02	7.44	8.15	6.98	6.49	6.94	7.67	7.33	7.96	8.01	7.85	7.17
8	6.79	7.07	7.70	7.08	7.24	6.94	7.77	6.61	7.94	7.72	7.91	7.18
9	6.62	6.75	7.75	7.45	7.91	7.93	7.70	6.75	7.72	7.53	7.81	7.73
10	6.60	7.30	8.17	6.96	7.73	7.76	7.20	7.00	7.58	7.36	8.44	7.81
11	6.39	7.47	7.64	6.69	7.07	7.72	7.40	7.19	7.42	7.77	8.19	7.78
12	6.82	6.82	7.75	7.78	6.79	7.75	7.67	7.61	7.29	7.56	7.76	7.88
13	7.32	6.25	7.29	7.80	6.63	7.74	7.41	7.72	7.36	7.30	7.98	7.77
14	7.43	6.57	7.72	7.37	7.10	7.31	7.56	7.47	7.40	7.17	8.08	7.48
15	7.79	7.53	7.76	6.60	6.76	7.12	7.43	7.29	7.77	7.79	7.40	7.66
16	7.87	7.41	7.70	6.55	7.40	7.52	7.10	7.23	7.52	7.63	7.71	7.52
17	7.80	7.52	8.11	7.72	7.77	7.21	6.86	7.13	7.28	7.69	7.94	7.07
18	7.79	7.32	8.09	7.58	7.83	6.66	7.37	6.97	7.19	7.79	7.98	7.01
19	7.78	7.25	7.62	7.51	7.88	6.25	7.64	6.16	7.73	7.80	7.60	7.90
20	7.35	7.15	7.45	8.06	7.42	6.31	7.61	5.72	7.40	7.82	7.70	7.43
21	6.90	7.10	7.33	7.58	7.75	6.93	7.42	7.76	7.27	7.82	7.80	7.70
22	6.64	7.28	7.70	7.58	7.34	6.65	7.26	7.90	7.82	7.72	7.50	7.60
23	7.59	7.17	7.60	7.29	6.86	6.84	6.41	7.36	7.89	7.63	7.71	7.71
24	7.54	7.86	7.57	7.21	6.41	6.95	6.87	6.73	7.95	7.49	7.90	7.23
25	7.23	7.81	7.72	7.04	7.58	7.29	7.78	7.03	8.02	7.32	7.64	7.87
26	7.52	7.79	7.81	7.07	7.91	7.53	7.56	7.94	8.13	7.15	7.26	7.79
27	7.06	7.86	7.36	7.12	7.86	7.32	6.86	8.02	7.92	7.48	7.45	7.75
28	6.46	7.66	7.59	6.54	7.32	6.92	6.86	7.88	8.18	7.83	7.60	7.62
29	6.65	7.74	7.39	5.87	---	7.66	6.70	7.86	7.97	7.96	7.52	7.42
30	7.06	7.89	7.64	7.18	---	7.19	6.84	7.73	7.65	7.81	7.67	7.43
31	7.61	---	7.97	7.35	---	7.38	---	7.68	---	8.00	7.80	---
MEAN	7.10	7.36	7.58	7.24	7.35	7.24	7.28	7.27	7.67	7.64	7.81	7.57
MAX	7.87	7.89	8.17	8.06	7.91	7.93	7.78	8.02	8.18	8.01	8.44	7.90
MIN	5.01	6.25	6.35	5.87	6.41	6.25	6.41	5.72	7.17	7.15	7.26	7.01

CAL YR 1977 MEAN 7.34 MAX 8.68 MIN 5.01
WTR YR 1978 MEAN 7.43 MAX 8.44 MIN 5.01

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02281500 HILLSBORO CANAL NEAR DEERFIELD BEACH, FL

LOCATION.--Lat 26°19'39", long 80°07'52", in SW quarter sec.35, T.47 S., R.42 E., Broward County, Hydrologic Unit 03090202, at upstream end of lock chamber, 2 mi (3 km) west of Deerfield Beach, and 4.4 mi (7.1 km) east of State Highway 7.

DRAINAGE AREA.--Indeterminate.

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

GAGE.--Water-stage recorder, sharp crested weir, and gate opening indicator. Datum of gage is National Geodetic Vertical Datum of 1929 (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 (18 km) above station. Lock chamber not used for navigation. Pumps above station divert water for irrigation during growing season. Since September 1952, flow materially affected by control structure 39, 11 mi (18 km) upstream. Discharge computed from relation between discharge, head, submergence, and gate openings.

COOPERATION.--Stoplog and sluice-gate-operation records furnished by South Florida Water Management District.

AVERAGE DISCHARGE.--38 years, 318 ft³/s (9.01 m³/s), 230,200 acre-ft/yr (284 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,490 (98.8 m³/s) Oct. 12, 1947; maximum gage height, 12.58 ft (3.834 m) Dec. 24, 1957; no flow for several days in 1939, 1940, and 1959; minimum gage height, 0.77 ft (0.235 m) Aug. 17, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,320 ft³/s (37.4 m³/s) May 19; maximum gage height, 8.97 ft (2.734 m) Dec. 7; minimum daily discharge, 20 ft³/s (0.566 m³/s) estimated leakage, many days during year; minimum gage height, 1.59 ft (0.485 m) Oct. 1.

REVISIONS.--The maximum daily discharge for water year 1975 has been revised to 2,260 ft³/s (64.0 m³/s); revised daily discharges in cubic feet per second for the period September 1974, and the 1975 water year, are given below. These figures superseded those published in the reports for 1974, 1975.

Sept. 25.....28	Sept. 27.....44	Sept. 29.....41
26.....45	28.....67	30.....26

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	54	54	36	129	29	20	20	22	175	342	205
2	86	203	42	29	134	20	20	20	20	195	326	170
3	123	204	33	79	158	20	20	20	20	222	313	163
4	168	164	35	103	248	20	20	20	20	223	336	104
5	182	128	41	74	185	20	23	20	122	228	390	138
6	101	185	36	45	116	20	88	20	119	243	384	219
7	82	180	34	59	101	20	83	20	129	260	363	234
8	163	141	41	38	81	20	40	20	109	246	358	203
9	388	102	117	20	78	20	20	33	82	260	330	250
10	468	79	171	20	76	20	20	47	64	245	302	237
11	331	109	60	20	67	20	20	35	64	226	282	203
12	271	99	20	20	37	20	20	20	114	210	309	173
13	185	55	20	24	20	20	20	20	96	215	318	130
14	129	20	20	1200	20	20	20	20	81	210	313	82
15	79	20	20	767	20	30	20	20	96	195	292	60
16	66	20	20	741	20	111	20	20	144	182	262	33
17	74	20	20	899	20	63	20	20	162	178	241	26
18	86	943	20	1320	20	20	23	23	183	175	277	27
19	232	1780	20	1600	20	20	20	23	172	175	287	23
20	285	1430	128	1440	20	20	20	20	161	159	318	22
21	231	593	283	895	20	20	20	20	156	157	328	92
22	232	411	20	338	20	20	20	20	157	159	354	120
23	235	380	20	349	20	20	20	20	156	173	395	63
24	240	525	22	306	20	20	20	20	153	168	287	44
25	27	434	36	401	20	20	20	20	193	172	215	216
26	20	38	41	447	20	20	20	31	183	178	242	250
27	29	66	46	346	20	20	20	23	183	242	328	283
28	34	131	55	311	22	20	20	28	184	256	309	535
29	94	134	67	226	---	20	20	28	180	271	285	506
30	76	63	25	182	---	20	20	23	175	311	246	359
31	55	---	24	158	---	20	---	23	---	310	225	---
TOTAL	4872	8711	1591	12493	1732	773	757	717	3700	6619	9557	5170
MEAN	157	290	51.3	403	61.9	24.9	25.2	23.1	123	214	308	172
MAX	468	1780	283	1600	248	111	88	47	193	311	395	535
MIN	20	20	20	20	20	20	20	20	20	157	215	22
AC-FT	9660	17280	3160	24780	3440	1530	1500	1420	7340	13130	18960	10250

CAL YR 1973	TOTAL	70639	MEAN 194	MAX 2620	MIN 20	AC-FT 140100
WTR YR 1974	TOTAL	56692	MEAN 155	MAX 1780	MIN 20	AC-FT 112400

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

02281500 HILLSBORO CANAL NEAR DEERFIELD BEACH, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	304	24	219	20	20	20	20	20	346	213	141	20
2	490	20	63	20	20	20	20	20	195	272	134	36
3	295	20	20	20	20	20	20	20	106	352	123	63
4	280	20	20	20	23	20	20	20	432	342	102	30
5	123	20	20	20	38	20	20	20	401	334	20	20
6	1780	20	20	20	20	20	20	20	230	214	25	20
7	2260	20	21	20	20	20	20	20	184	284	37	20
8	1830	20	34	20	20	20	20	20	174	272	80	20
9	1080	20	35	20	20	20	20	20	175	283	91	20
10	734	20	20	20	20	20	20	214	266	298	20	20
11	736	21	20	20	26	20	20	264	227	315	20	26
12	667	20	20	20	20	20	20	204	225	383	20	20
13	545	20	25	20	20	20	20	161	119	378	20	20
14	852	20	80	20	20	20	20	181	93	362	20	20
15	984	37	2090	20	20	20	20	169	177	360	20	20
16	448	69	645	20	20	20	20	158	158	337	20	20
17	563	130	331	20	20	20	20	161	81	324	20	20
18	577	784	293	20	20	20	20	151	29	163	20	823
19	533	421	157	20	20	20	20	138	61	201	20	2050
20	346	181	174	21	20	20	20	114	142	190	20	1440
21	459	169	162	22	20	20	20	93	226	175	22	1500
22	141	88	154	20	20	20	20	50	189	170	31	1310
23	182	63	103	20	20	20	20	36	184	169	45	740
24	173	48	65	20	20	20	20	47	47	165	36	817
25	88	72	52	20	20	20	20	56	156	162	21	414
26	23	190	53	20	20	20	20	59	57	164	21	733
27	99	317	37	20	20	20	20	67	376	163	20	678
28	169	199	28	20	20	20	20	87	212	36	20	460
29	149	188	24	20	---	20	20	107	230	22	20	625
30	29	139	20	20	---	20	20	67	206	41	20	294
31	24	---	20	20	---	20	---	362	---	122	20	---
TOTAL	16963	3380	5025	623	587	620	600	3126	5704	7266	1249	12299
MEAN	547	113	162	20.1	21.0	20.0	20.0	101	190	234	40.3	410
MAX	2260	784	2090	22	38	20	20	362	432	383	141	2050
MIN	23	20	20	20	20	20	20	20	29	22	20	20
AC-FT	33650	6700	9970	1240	1160	1230	1190	6200	11310	14410	2480	24400
CAL YR 1974	TOTAL	66886	MEAN 183	MAX 2260	MIN 20	AC-FT 132700						
WTR YR 1975	TOTAL	57442	MEAN 157	MAX 2260	MIN 20	AC-FT 113900						

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02281500 HILLSBORO CANAL NEAR DEERFIELD BEACH, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	260	637	20	20	20	645	20	20	307	323	157	197
2	386	401	20	20	20	327	20	21	217	176	69	344
3	501	421	20	20	20	155	20	198	264	233	214	385
4	372	666	20	20	20	268	20	166	223	202	173	251
5	360	787	20	20	20	207	20	105	268	197	168	243
6	344	636	20	20	20	207	153	20	253	170	166	272
7	192	599	20	20	20	158	268	20	138	162	257	264
8	199	552	20	20	20	226	87	20	266	210	329	252
9	199	433	21	20	20	179	20	113	219	208	155	297
10	94	414	20	20	20	20	20	198	290	211	137	195
11	135	381	20	20	20	282	20	202	220	208	145	123
12	165	380	20	20	20	101	20	201	329	154	155	607
13	157	353	20	20	20	20	20	205	258	125	118	614
14	157	169	20	20	20	20	20	115	243	177	137	518
15	157	45	20	197	20	20	20	52	194	184	81	532
16	311	20	20	97	20	20	20	76	193	183	91	463
17	287	20	20	20	20	20	20	385	189	86	306	372
18	188	20	20	20	20	20	20	166	241	167	521	337
19	221	21	20	20	20	20	20	157	116	106	1420	358
20	241	108	20	20	20	20	20	124	281	20	986	436
21	585	127	20	20	20	20	20	155	225	20	628	384
22	762	64	20	20	20	20	20	101	208	20	531	316
23	656	26	20	20	20	20	20	684	175	20	434	297
24	334	20	20	20	20	20	20	444	442	20	430	293
25	328	20	20	20	332	20	20	478	320	20	333	281
26	50	20	29	20	356	20	141	465	217	20	257	120
27	191	20	56	20	413	20	20	198	279	20	198	166
28	267	20	57	20	996	20	20	232	269	20	200	119
29	599	20	44	20	1360	20	20	88	262	20	207	52
30	660	20	25	20	---	20	20	275	125	123	211	33
31	891	---	20	20	---	20	---	341	---	157	48	---
TOTAL	10249	7420	732	874	3937	3155	1169	6025	7231	3962	9262	9121
MEAN	331	247	23.6	28.2	136	102	39.0	194	241	128	299	304
MAX	891	787	57	197	1360	645	268	684	442	323	1420	614
MIN	50	20	20	20	20	20	20	20	116	20	48	33
AC-FT	20330	14720	1450	1730	7810	6260	2320	11950	14340	7860	18370	18090
CAL YR 1975	TOTAL	50475	MEAN 138	MAX 2050	MIN 20	AC-FT 100100						
WTR YR 1976	TOTAL	63137	MEAN 173	MAX 1420	MIN 20	AC-FT 125200						

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

02281500 HILLSBORO CANAL NEAR DEERFIELD BEACH, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	20	51	57	156	114	55	73	279	61	33	713
2	64	91	161	44	121	62	58	64	529	38	68	1280
3	27	834	116	64	71	21	63	49	382	32	36	1570
4	20	183	48	96	37	20	52	36	349	26	21	1580
5	20	112	20	33	25	40	62	256	360	37	20	945
6	20	40	52	20	24	98	82	301	348	70	20	1050
7	23	20	191	41	22	119	136	249	337	374	20	1440
8	34	21	122	27	49	121	91	219	299	277	34	960
9	39	94	35	20	126	63	21	512	432	153	156	440
10	49	127	20	20	128	29	24	536	618	138	105	448
11	831	82	61	20	91	42	60	413	515	175	21	422
12	288	70	174	20	31	60	35	384	479	20	29	211
13	20	85	126	20	20	50	40	447	409	24	155	201
14	22	128	143	27	30	24	134	348	378	35	177	197
15	34	95	92	1070	112	30	88	184	141	41	103	200
16	39	58	40	1360	145	27	51	175	187	58	22	199
17	81	113	26	566	70	36	20	160	197	152	57	211
18	98	160	20	324	20	73	51	132	160	137	35	213
19	136	79	20	128	20	125	115	99	146	131	48	216
20	100	28	20	73	20	153	175	70	156	40	54	252
21	33	20	27	143	20	150	164	94	160	52	129	165
22	20	27	21	171	20	101	97	86	193	72	117	850
23	20	26	34	171	37	61	65	78	106	122	129	1250
24	27	20	575	148	103	41	120	40	66	134	143	746
25	61	20	240	142	68	48	67	61	62	53	130	503
26	62	22	327	105	22	51	20	148	64	68	46	576
27	63	25	139	95	20	26	23	511	55	71	38	860
28	75	47	32	95	28	21	126	467	42	38	236	1300
29	53	57	39	124	---	20	150	309	40	22	218	809
30	23	61	44	98	---	20	89	302	64	20	671	829
31	20	---	25	124	---	49	---	285	---	20	505	---
TOTAL	2489	2765	3041	5446	1636	1895	2334	7088	7553	2691	3576	20636
MEAN	80.3	92.2	98.1	176	58.4	61.1	77.8	229	252	86.8	115	688
MAX	831	834	575	1360	156	153	175	536	618	374	671	1580
MIN	20	20	20	20	20	20	20	36	40	20	20	165
AC-FT	4940	5480	6030	10800	3250	3760	4630	14060	14980	5340	7090	40930

CAL YR 1976	TOTAL	53031	MEAN	145	MAX	1420	MIN	20	AC-FT	105200
TR YR 1977	TOTAL	61150	MEAN	168	MAX	1580	MIN	20	AC-FT	121300

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02281500 HILLSBORO CANAL NEAR DEERFIELD BEACH, FL

STATION NUMBER	02281500	HILLSBORO CANAL NR. DEERFIELD BEACH, FLA	STREAM	SOURCE AGENCY USGS
LATITUDE 261939	LONGITUDE 0800752	DRAINAGE AREA	DATUM	STATE 12 COUNTY 011

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	46	30	157	20	20	24	20	243	164	408	39
2	20	36	20	66	20	20	23	46	238	224	383	43
3	20	20	20	197	64	164	20	124	73	182	302	182
4	20	20	20	164	75	425	20	35	250	168	360	150
5	20	168	20	22	196	214	37	22	239	170	254	161
6	20	261	215	23	125	123	34	38	260	192	263	163
7	20	22	303	20	20	20	44	20	264	288	380	93
8	20	20	41	21	23	72	54	20	265	251	214	20
9	20	20	134	206	169	529	41	20	241	247	292	48
10	20	21	681	20	50	323	172	20	222	134	664	59
11	20	27	327	20	20	96	27	20	212	214	556	56
12	20	20	250	54	20	58	137	24	210	156	470	81
13	20	20	217	197	20	66	21	36	215	157	332	160
14	25	21	173	199	20	34	114	21	221	65	354	87
15	63	151	215	20	20	20	252	20	212	207	291	99
16	67	37	221	20	29	27	53	20	198	154	42	96
17	62	303	576	58	318	20	20	20	195	167	73	60
18	55	41	399	311	294	20	24	643	133	166	116	20
19	57	20	211	233	434	20	68	1320	182	181	152	323
20	20	20	163	324	359	20	131	197	199	172	124	276
21	20	20	39	189	288	20	50	90	67	159	113	38
22	20	20	41	26	172	28	22	86	165	148	97	53
23	74	20	32	20	20	37	20	24	197	138	110	257
24	21	31	27	20	20	26	32	20	324	135	293	60
25	20	305	43	20	41	32	54	20	415	125	205	402
26	23	64	298	20	167	224	122	52	383	20	33	291
27	40	56	176	20	96	147	20	70	361	39	24	249
28	20	32	37	20	21	20	27	186	409	64	31	184
29	20	41	20	20	---	226	20	278	354	174	27	179
30	20	50	46	31	---	93	20	252	317	173	43	179
31	31	---	137	281	---	20	---	246	---	281	62	---
TOTAL	1004	1933	5132	2999	3121	3164	1703	4010	7264	5115	7068	4108
MEAN	32.4	64.4	166	96.7	111	102	56.8	129	242	165	228	137
MAX	106	305	681	324	434	529	252	1320	415	288	664	402
MIN	20	20	20	20	20	20	20	20	67	20	24	20
AC-FT	1990	3830	10180	5950	6190	6280	3380	7950	14410	10150	14020	8150

CAL YR 1977	TOTAL	60924	MEAN 167	MAX 1580	MIN 20	AC-FT 120800
WTR YR 1978	TOTAL	46621	MEAN 128	MAX 1320	MIN 20	AC-FT 92470

02281500 HILLSBORO CANAL NEAR DEERFIELD BEACH, FL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.24	7.18	7.81	8.30	7.39	7.64	6.64	7.25	8.17	7.17	7.76	7.28
2	7.38	7.89	7.73	8.23	7.41	7.22	7.12	7.24	8.09	7.25	7.71	7.15
3	7.56	7.89	7.66	8.57	7.51	6.77	7.38	7.29	7.90	7.35	7.66	7.12
4	7.75	7.74	7.68	8.69	7.85	6.50	7.60	7.56	8.08	7.35	7.74	6.86
5	7.81	7.58	7.72	8.53	7.61	6.89	7.91	7.92	8.12	7.37	7.89	7.01
6	7.45	7.82	7.69	8.36	7.33	7.21	8.66	7.97	7.53	7.42	7.88	7.34
7	7.36	7.80	7.67	8.45	7.25	7.34	8.63	7.98	7.59	7.48	7.82	7.39
8	7.72	7.64	7.68	8.31	7.15	7.40	8.35	7.98	7.49	7.43	7.81	7.28
9	8.49	7.46	8.14	8.07	7.14	7.23	7.88	8.32	7.35	7.48	7.72	7.45
10	8.12	7.35	7.62	8.07	7.13	7.06	7.46	8.43	7.26	7.43	7.62	7.40
11	7.63	7.50	6.95	7.82	7.08	6.97	6.90	8.34	7.25	7.36	7.55	7.28
12	7.83	7.44	6.90	7.58	7.05	6.92	6.65	7.97	7.51	7.31	7.65	7.16
13	7.44	7.19	6.80	7.71	7.07	6.90	6.37	7.56	7.42	7.33	7.68	6.98
14	7.16	6.75	6.78	8.41	6.94	7.41	6.14	7.38	7.35	7.31	7.66	6.75
15	7.14	6.48	6.78	6.82	6.79	7.98	6.15	7.80	7.42	7.25	7.59	6.63
16	7.28	6.55	7.07	5.16	6.82	8.78	7.01	8.05	7.64	7.20	7.49	6.45
17	7.32	6.46	7.77	3.82	7.08	8.49	7.90	8.07	7.72	7.18	7.41	6.37
18	7.38	6.47	7.45	3.71	7.09	7.82	8.12	8.21	7.80	7.17	7.54	6.36
19	7.98	5.30	7.25	4.03	6.91	7.31	7.51	8.20	7.76	7.17	7.57	6.24
20	8.18	3.94	7.97	3.45	6.97	6.75	6.86	7.97	7.71	7.11	7.68	6.02
21	7.99	5.92	7.14	4.66	7.15	6.58	6.46	7.83	7.70	7.10	7.71	6.80
22	7.99	9.16	6.98	8.15	7.15	7.16	6.23	7.61	7.70	7.11	7.79	6.94
23	8.01	9.08	7.69	8.19	6.94	7.12	6.37	7.35	7.69	7.16	7.89	7.09
24	7.61	7.83	8.12	8.05	7.08	7.32	6.70	7.58	7.68	7.14	7.57	7.71
25	6.97	4.95	8.30	8.33	6.92	7.31	6.78	8.04	7.52	7.16	7.32	7.55
26	6.75	6.99	8.34	8.45	7.10	7.22	6.95	8.30	7.20	7.18	7.41	7.65
27	7.01	7.87	8.38	8.18	7.04	7.06	7.11	8.22	7.20	7.42	7.71	7.62
28	7.06	8.19	8.43	8.06	7.48	6.94	7.28	8.28	7.21	7.47	7.65	7.87
29	7.42	8.20	8.49	7.77	---	7.01	7.38	8.28	7.19	7.52	7.57	7.68
30	7.33	7.86	8.19	7.61	---	6.95	7.33	8.21	7.17	7.66	7.43	7.34
31	7.21	---	8.15	7.51	---	6.65	---	8.19	---	7.65	7.36	---
MEAN	7.53	7.22	7.66	7.32	7.16	7.22	7.19	7.92	7.58	7.31	7.64	7.09
MAX	8.49	9.16	8.49	8.69	7.85	8.78	8.66	8.43	8.17	7.66	7.89	7.87
MIN	6.75	3.94	6.78	3.45	6.79	6.50	6.14					

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02281500 HILLSBORO CANAL NEAR DEERFIELD BEACH, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.61	7.53	7.64	7.15	7.22	7.22	7.19	7.37	7.54	7.61	7.55	7.23
2	7.34	7.35	7.17	7.09	7.40	7.31	7.15	7.28	7.32	7.72	7.56	7.68
3	7.51	7.32	6.91	7.19	7.47	6.94	7.12	7.18	7.67	7.50	7.48	7.96
4	7.61	7.31	6.76	7.08	7.46	7.06	6.95	7.08	7.56	7.28	7.19	7.64
5	7.56	7.39	6.96	7.53	7.89	7.35	6.84	7.08	7.62	7.14	7.18	7.18
6	7.74	7.25	7.22	7.36	7.60	7.60	6.73	6.88	7.35	7.28	7.58	6.80
7	6.39	7.17	7.51	7.24	7.73	7.53	6.70	7.25	7.65	7.60	7.79	6.88
8	4.73	6.92	7.74	6.89	7.66	7.03	6.93	7.66	7.73	7.52	7.93	7.14
9	5.69	7.07	7.66	6.81	7.44	6.66	7.09	7.92	7.78	7.60	7.25	7.10
10	7.51	7.40	7.24	6.59	7.56	6.46	7.19	8.20	7.80	7.71	7.05	7.17
11	7.30	7.48	7.26	6.69	8.21	6.53	7.17	8.13	7.56	7.81	7.24	7.65
12	7.12	7.08	7.27	6.62	7.68	6.82	7.38	7.92	7.18	7.70	7.31	7.51
13	7.16	7.01	7.64	6.46	7.30	6.82	7.54	7.76	7.24	7.76	7.05	7.33
14	7.39	7.01	8.01	6.06	7.18	6.96	7.44	7.83	7.89	7.55	6.95	7.06
15	7.06	7.63	7.42	5.90	7.27	6.38	7.39	7.79	7.47	7.37	6.54	6.92
16	7.27	7.95	5.93	6.56	7.40	6.10	7.45	7.74	7.28	7.28	6.38	6.86
17	7.60	8.17	8.03	6.93	7.48	6.15	7.25	7.75	7.20	7.11	6.39	6.81
18	7.75	8.33	7.65	7.03	7.42	6.72	7.23	7.71	7.67	7.56	6.43	7.29
19	7.38	7.67	8.37	7.43	7.20	6.79	7.30	7.66	7.88	7.75	6.98	5.57
20	7.41	8.51	8.44	7.54	7.45	6.67	7.44	7.55	7.66	7.76	7.48	3.61
21	7.47	8.40	8.39	7.48	7.32	6.82	7.34	7.44	7.43	7.67	7.42	3.74
22	7.56	8.06	8.35	6.80	7.31	6.65	7.29	7.47	7.19	7.61	7.59	3.28
23	7.46	7.91	8.13	6.79	7.19	6.45	7.69	7.71	7.07	7.52	7.90	4.64
24	7.23	7.85	7.92	6.68	7.39	6.39	7.31	7.79	7.40	7.39	7.82	5.80
25	7.24	8.00	7.86	6.71	7.85	6.80	7.01	7.85	7.69	7.31	7.53	4.86
26	7.66	7.96	7.86	6.88	7.44	7.06	6.98	7.87	7.82	7.17	7.41	6.53
27	7.89	7.16	7.75	7.21	7.17	7.24	6.92	7.91	7.39	7.02	7.33	2.86
28	7.38	7.56	7.66	7.24	6.95	7.39	6.98	8.02	7.24	7.23	6.79	2.83
29	7.16	7.29	7.55	7.10	---	7.35	7.35	7.47	7.59	7.53	6.43	4.28
30	7.35	7.57	7.35	6.72	---	7.32	7.43	7.60	7.51	7.76	6.61	4.82
31	7.66	---	7.30	6.88	---	7.32	---	7.74	---	7.72	7.01	---
MEAN	7.26	7.58	7.58	6.92	7.45	6.90	7.19	7.63	7.51	7.50	7.20	6.10
MAX	7.89	8.51	8.44	7.54	8.21	7.60	7.69	8.20	7.89	7.81	7.93	7.96
MIN	4.73	6.92	5.93	5.90	6.95	6.10	6.70	6.88	7.07	7.02	6.38	2.83

CAL YR 1974 MEAN 7.41 MAX 8.78 MIN 3.45
WTR YR 1975 MEAN 7.24 MAX 8.51 MIN 2.83

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02281500 HILLSBORO CANAL NEAR DEERFIELD BEACH, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.50	5.45	7.07	6.83	6.64	6.27	7.36	6.62	7.16	7.62	7.35	7.79
2	7.46	8.17	7.16	6.58	7.29	7.61	7.64	7.61	7.74	7.07	7.29	8.11
3	6.45	7.34	7.08	6.64	7.44	7.40	7.32	7.52	7.79	7.55	7.63	7.53
4	7.75	6.93	6.87	6.63	6.90	7.44	7.06	7.49	7.73	7.40	7.52	7.11
5	7.72	7.12	6.59	6.87	6.64	7.21	6.98	7.09	7.49	7.27	7.47	8.03
6	7.46	7.84	6.29	7.32	6.71	7.36	7.36	7.25	7.18	7.29	7.47	8.13
7	7.52	7.76	6.32	6.94	7.14	7.47	7.37	7.34	7.63	7.67	7.58	8.10
8	7.60	7.64	6.72	6.57	7.39	7.47	7.30	7.53	7.74	7.47	7.53	8.06
9	7.42	7.34	7.44	6.39	7.03	7.19	7.73	7.70	7.74	7.35	7.49	7.54
10	7.30	7.29	7.19	6.17	6.52	7.53	7.22	7.63	7.80	7.29	7.43	7.48
11	7.86	7.21	6.71	6.29	6.47	7.49	6.50	7.69	7.65	7.15	7.28	7.48
12	7.49	7.21	6.21	6.44	6.63	7.18	6.43	7.44	7.47	7.09	7.18	7.48
13	7.39	7.13	6.79	6.64	6.79	7.33	7.40	7.20	7.23	7.66	7.57	7.61
14	7.15	6.89	6.88	7.36	6.37	7.41	7.26	7.18	7.76	7.47	7.63	7.32
15	7.26	7.10	6.28	7.42	6.44	7.21	7.16	7.71	7.78	7.24	7.42	7.33
16	7.68	6.69	6.20	7.10	6.59	6.98	6.60	7.70	7.56	7.02	7.51	7.40
17	7.25	6.72	6.61	7.50	6.97	6.96	7.04	6.44	7.24	7.26	7.75	7.58
18	7.35	6.71	6.72	7.00	7.20	6.54	7.57	7.70	6.99	7.70	7.02	7.42
19	7.72	6.69	6.49	6.62	7.23	6.48	7.65	7.76	7.79	7.27	4.74	7.52
20	7.88	7.43	6.69	6.64	7.16	6.85	6.91	7.70	7.64	7.18	4.29	7.85
21	6.56	7.53	6.99	6.93	7.05	6.98	7.00	7.69	7.55	6.95	7.59	7.67
22	7.19	7.21	6.96	7.26	7.31	7.24	6.98	7.75	7.21	7.02	7.80	7.39
23	6.16	6.93	6.43	6.58	7.45	7.25	6.82	6.64	7.54	7.51	7.83	7.29
24	7.66	6.69	6.54	6.73	7.11	7.34	7.31	7.59	7.53	7.46	7.53	7.21
25	7.37	6.48	6.86	7.17	7.36	7.03	7.78	7.69	7.36	7.71	7.29	7.15
26	7.61	6.96	7.49	7.36	7.45	6.85	7.48	7.27	7.87	7.81	7.81	7.43
27	7.77	7.13	7.82	7.44	7.51	6.61	7.18	7.60	7.74	7.82	8.00	7.74
28	7.65	7.13	7.82	7.53	6.78	6.25	7.13	7.75	7.50	7.73	7.72	7.54
29	7.34	7.10	7.74	7.16	5.68	6.17	6.89	7.91	7.35	7.75	7.44	7.19
30	6.57	7.03	7.56	6.71	---	6.98	6.90	7.72	7.54	7.77	7.21	7.05
31	6.64	---	7.44	6.45	---	6.94	---	7.49	---	7.52	7.40	---
MEAN	7.35	7.10	6.90	6.88	6.94	7.07	7.18	7.46	7.54	7.42	7.32	7.55
MAX	7.88	8.17	7.82	7.53	7.51	7.61	7.78	7.91	7.87	7.82	8.00	8.13
MIN	6.16	5.45	6.20	6.17	5.68	6.17	6.43	6.44	6.99	6.95	4.29	7.05

CAL YR 1975 MEAN 7.15 MAX 8.21 MIN 2.83
WTR YR 1976 MEAN 7.23 MAX 8.17 MIN 4.29

02281500 HILLSBORO CANAL NEAR DEERFIELD BEACH, FL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.38	6.39	7.17	7.23	7.71	7.52	7.21	7.31	7.77	7.85	7.62	6.97
2	7.26	7.38	7.72	7.14	7.56	7.24	7.23	7.26	7.05	7.70	7.89	5.28
3	6.96	6.20	7.53	7.25	7.30	6.78	7.26	7.12	5.93	7.65	7.68	5.42
4	6.74	7.80	7.10	7.43	7.08	6.52	7.19	6.92	7.68	7.59	7.50	5.10
5	6.45	7.51	6.48	7.00	6.97	7.04	7.26	7.59	7.52	7.67	7.33	5.83
6	6.42	7.07	6.79	6.70	6.96	7.44	7.36	7.51	7.49	7.90	7.22	6.97
7	6.88	6.52	7.84	7.11	6.92	7.54	7.62	7.29	7.43	6.24	7.34	4.55
8	7.07	6.61	7.55	6.95	7.12	7.56	7.39	7.10	7.27	7.64	7.63	4.37
9	7.11	7.41	7.04	6.55	7.58	7.25	6.79	7.17	6.78	7.25	7.70	7.67
10	7.18	7.58	6.67	6.44	7.59	7.02	6.77	6.47	6.39	7.73	7.18	7.64
11	6.63	7.36	7.19	6.76	7.40	7.12	7.24	7.61	7.76	7.25	7.39	7.35
12	5.66	7.30	7.77	6.60	7.02	7.24	7.07	7.18	7.63	7.33	7.61	7.49
13	6.78	7.38	7.57	6.77	6.85	7.17	7.10	7.64	7.33	7.56	7.68	7.47
14	6.89	7.59	7.65	6.98	6.99	6.95	7.61	7.31	7.11	7.68	7.44	7.28
15	7.07	7.42	7.41	7.15	7.51	7.03	7.39	7.82	7.62	7.72	7.12	7.21
16	7.11	7.23	7.12	7.14	7.66	7.00	7.19	7.78	7.83	7.83	7.30	7.30
17	7.35	7.49	6.89	7.37	7.28	7.08	6.77	7.72	7.87	7.69	7.82	7.58
18	7.44	7.72	6.41	7.35	6.81	7.31	7.12	7.60	7.72	7.42	7.67	7.58
19	7.62	7.34	5.93	7.12	6.73	7.57	7.53	7.44	7.66	7.18	7.77	7.61
20	7.45	6.97	6.00	7.31	6.71	7.69	7.78	7.30	7.70	7.68	7.81	7.72
21	6.98	6.55	6.91	7.65	6.29	7.68	7.74	7.42	7.72	7.80	7.74	7.64
22	6.42	6.99	6.91	7.77	6.42	7.46	7.43	7.38	7.85	7.91	7.61	6.75
23	6.64	6.95	6.88	7.77	7.03	7.25	7.27	7.33	7.75	7.75	7.74	4.46
24	6.99	6.67	7.60	7.67	7.46	7.12	7.55	7.11	7.87	7.15	7.84	5.61
25	7.25	6.78	7.26	7.65	7.28	7.17	7.25	7.25	7.85	7.53	7.71	7.92
26	7.25	6.91	7.63	7.47	6.83	7.18	6.55	7.65	7.87	7.89	7.08	6.45
27	7.26	6.97	7.22	7.42	6.62	6.98	6.59	7.57	7.81	7.90	7.63	2.76
28	7.33	7.16	7.05	7.42	6.82	6.83	7.57	7.47	7.73	7.70	7.65	4.39
29	7.20	7.23	7.08	7.57	---	6.60	7.68	7.89	7.72	7.50	7.70	5.15
30	6.85	7.24	7.13	7.44	---	6.34	7.39	7.85	7.86	7.40	7.67	6.56
31	6.50	---	6.96	7.56	---	7.16	---	7.80	---	7.41	7.55	---
MEAN	6.97	7.12	7.11	7.22	7.09	7.16	7.26	7.41	7.52	7.56	7.57	6.40
MAX	7.62	7.80	7.84	7.77	7.71	7.69	7.78	7.89	7.87	7.91	7.89	7.92
MIN	5.66	6.20	5.93	6.44	6.29	6.34	6.55	6				

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02281500 HILLSBORO CANAL NEAR DEERFIELD BEACH, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.74	7.76	7.60	7.33	7.08	7.04	7.50	6.99	7.40	7.40	7.72	7.71
2	6.87	7.56	7.14	7.23	7.10	7.39	7.34	7.74	7.15	7.49	7.63	7.72
3	7.25	7.13	6.90	7.63	7.86	7.51	6.73	7.08	7.40	7.54	7.78	7.72
4	7.28	6.93	6.37	7.27	7.92	7.52	6.89	7.22	7.54	7.44	7.70	7.29
5	7.13	7.69	6.35	7.48	7.77	7.59	7.68	7.38	7.66	7.50	7.92	7.52
6	7.01	7.41	7.59	7.48	7.08	7.16	7.67	7.65	7.80	7.70	7.98	7.59
7	7.03	7.48	7.84	7.00	6.50	6.93	7.74	6.71	7.82	7.73	7.68	7.17
8	6.78	7.04	7.72	7.16	7.26	6.94	7.81	6.82	7.83	7.51	7.72	7.17
9	6.69	6.76	7.69	7.42	7.56	7.66	7.71	7.03	7.67	7.23	7.56	7.74
10	6.63	7.37	7.52	6.98	7.60	7.40	7.07	7.00	7.45	7.49	7.69	7.83
11	6.43	7.51	7.33	6.77	7.05	7.63	7.34	7.18	7.33	7.47	7.53	7.81
12	6.87	6.83	7.62	7.80	6.83	7.76	7.75	7.53	7.21	7.36	7.22	7.90
13	7.34	6.25	7.16	7.74	6.65	7.79	7.49	7.69	7.29	7.11	7.64	7.75
14	7.51	6.65	7.61	7.29	7.02	7.39	7.63	7.47	7.25	7.25	7.82	7.47
15	7.86	7.50	7.65	6.60	6.74	7.18	7.54	7.29	7.70	7.65	7.25	7.62
16	7.88	7.47	7.64	6.49	7.37	7.57	7.25	7.21	7.46	7.60	7.68	7.49
17	7.85	7.45	7.61	7.77	7.60	7.24	6.97	7.11	7.27	7.71	7.91	7.12
18	7.81	7.34	7.82	7.56	7.76	6.62	7.41	6.82	7.21	7.70	7.98	6.91
19	7.81	7.27	7.56	7.38	7.58	6.28	7.83	6.19	7.59	7.79	7.60	7.64
20	7.37	7.14	7.37	7.81	7.20	6.31	7.80	4.42	7.27	7.74	7.68	7.29
21	6.88	7.15	7.33	7.52	7.64	6.83	7.56	7.39	7.29	7.68	7.53	7.69
22	6.62	7.27	7.72	7.49	7.29	6.66	7.41	7.73	7.76	7.61	7.49	7.58
23	7.56	7.18	7.65	7.24	6.88	6.88	6.47	7.42	7.92	7.49	7.70	7.59
24	7.45	7.40	7.60	7.22	6.42	6.99	6.82	6.72	7.68	7.32	7.78	7.21
25	7.18	7.45	7.73	7.04	7.57	7.36	7.79	6.70	7.75	7.15	7.54	7.70
26	7.53	7.84	7.68	7.09	7.78	7.51	7.47	7.79	7.90	7.24	7.21	7.48
27	7.00	7.82	7.27	7.15	7.88	7.35	6.76	7.90	7.75	7.69	7.52	7.68
28	6.44	7.65	7.67	6.60	7.34	7.00	6.74	7.74	7.99	7.86	7.64	7.57
29	6.64	7.63	7.48	5.87	---	7.62	6.50	7.67	7.71	7.75	7.59	7.35
30	7.06	7.78	7.74	7.16	---	7.23	6.55	7.62	7.34	7.85	7.73	7.35
31	7.61	---	8.04	6.79	---	7.40	---	7.58	---	7.82	7.85	---
MEAN	7.07	7.32	7.48	7.21	7.30	7.22	7.31	7.19	7.55	7.54	7.65	7.52
MAX	7.88	7.84	8.04	7.81	7.92	7.79	7.83	7.90	7.99	7.86	7.98	7.90
MIN	3.74	6.25	6.35	5.87	6.42	6.28	6.47	4.42	7.15	7.11	7.21	6.91

CAL YR 1977	MEAN 7.26	MAX 8.04	MIN 2.76
WTR YR 1978	MEAN 7.36	MAX 8.04	MIN 3.74

02281501 HILLSBORO CANAL BELOW DEERFIELD LOCKS, NEAR DEERFIELD BEACH, FL

DRAINAGE AREA.--Indeterminate.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Prior to June 23, 1950, at site 500 ft (152 m) downstream at same datum.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 11.70 ft (3.566 m) estimated, Oct. 12, 1947; minimum, -1.69 ft (-0.515 m) Apr. 5, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 3.25 ft (0.991 m) Feb. 9; minimum, -1.27 ft (-0.387 m) Jan. 10.

[illegible]

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

02281650 HILLSBORO RIVER AT DEERFIELD BEACH, FL

LOCATION.--Lat 26°18'50", long 80°04'51", in NE¼ sec.5, T.46 S., R.43 E., Broward County, Hydrologic Unit 03090202, at sea wall on east bank, 8 ft (2 m) south of bridge on State Highway 810, and 400 ft (121 m) south of Hillsboro Canal at Deerfield Beach.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1968 to current year (gage heights only). Discontinued.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark).

REMARKS.--Gage records water levels and tidal fluctuations of Intracoastal Waterway. The stage record published is the maximum and minimum tide event for each calendar day.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 3.99 ft (1.216 m) Oct. 6, 1974; minimum, -1.95 ft (-0.594 m) Apr. 6, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 2.93 ft (0.893 m) Nov. 13; minimum -1.64 (-0.500 m) Jan. 10.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
TIDAL HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.21	2.16	1.56	1.68	1.06	1.77						
2	2.03	2.20	1.41	1.71	1.26	1.84						
3	2.16	2.14	1.19	1.73	1.48	1.89						
4	2.16	2.12	1.36	1.99	1.70	2.02						
5	2.00	2.13	1.51	1.79	2.09	1.88						
6	1.89	2.14	1.73	1.97	2.45	1.88						
7	1.92	2.20	1.85	2.16	2.42	2.07						
8	2.06	2.35	2.24	2.20	2.43	2.04						
9	2.12	2.37	2.50	1.96	2.55	2.28						
10	2.23	2.57	2.40	2.09	2.35	2.06						
11	2.08	2.31	2.49	2.14	2.28	1.84						
12	2.16	2.73	2.72	1.99	2.06	1.82						
13	2.11	2.93	2.58	2.03	1.94	1.62						
14	2.24	2.69	2.28	1.74	1.49	1.43						
15	2.50	2.60	2.06	1.24	1.43	1.44						
16	2.25	2.44	1.96	1.05	1.58	1.34						
17	2.13	2.17	1.99	1.09	1.39	1.13						
18	1.93	2.09	2.00	1.01	1.60	.94						
19	1.90	2.03	1.81	1.31	1.67	1.05						
20	1.75	2.24	1.91	1.19	1.73	1.42						
21	1.65	2.26	2.06	.99	1.83	1.50						
22	1.74	1.90	2.06	1.17	1.66	1.63						
23	1.99	2.01	1.85	1.41	1.67	1.88						
24	2.14	2.12	1.98	1.58	1.84	1.92						
25	2.31	2.25	1.96	1.92	1.83	1.70						
26	2.22	2.23	2.04	1.24	1.76	1.55						
27	2.11	2.27	1.93	1.25	1.79	1.50						
28	2.19	1.91	1.89	1.25	1.63	1.45						
29	1.99	2.01	1.84	1.04	---	1.55						
30	1.90	1.64	1.83	.96	---	1.60						
31	2.07	---	1.60	1.03	---	1.40						
MEAN	2.07	2.24	1.95	1.55	1.82	1.66						
MAX	2.50	2.93	2.72	2.20	2.55	2.28						
MIN	1.65	1.64	1.19	.96	1.06	.94						

CAL YR 1977 MEAN -1.16 MAX 2.93 MIN -1.95

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02281650 HILLSBORO RIVER AT DEERFIELD BEACH, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
TIDAL LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-.41	.02	-.54	-.58	-1.35	-.82						
2	-.37	.35	-.66	-.70	-1.43	-.73						
3	-.14	.23	-.80	-.63	-1.34	-.66						
4	.19	.20	-.79	-.94	-.91	-.88						
5	.03	.08	-.82	-1.22	-1.07	-.70						
6	.04	-.17	-1.00	-.82	-1.03	-1.15						
7	-.09	-.42	-1.04	-1.27	-1.17	-1.16						
8	-.17	-.27	-.61	-1.54	-1.27	-1.20						
9	-.32	-.68	-1.09	-1.63	-.73	-1.18						
10	-.43	-.92	-1.44	-1.64	-.74	-1.16						
11	-.81	-1.28	-1.29	-1.57	-.62	-1.20						
12	-1.02	-1.08	-1.05	-1.18	-.62	-1.06						
13	-1.23	-.85	-1.02	-.89	-.73	-1.06						
14	-1.22	-.93	-.82	-1.08	-.77	-.79						
15	-1.05	-.61	-.88	-1.24	-.51	-.81						
16	-1.05	-.58	-.80	-1.18	-.73	-.71						
17	-1.09	-.54	-.55	-1.16	-.60	-.83						
18	-1.03	-.48	-.53	-1.05	-.65	-.87						
19	-.87	-.39	-.63	-.78	-.32	-.86						
20	-.82	-.28	-.51	-.75	-.63	-.57						
21	-.81	-.16	-.11	-1.32	-.71	-.72						
22	-.76	-.63	-.62	-1.43	-.94	-.84						
23	-.70	-.62	-.90	-1.32	-1.04	-.96						
24	-.60	-.64	-.82	-1.16	-1.11	-.97						
25	-.63	-.59	-.76	-.82	-1.00	-1.05						
26	-.88	-.61	-.67	-1.42	-.97	-.90						
27	-.83	-.52	-.78	-1.39	-1.00	-1.05						
28	-.69	-.65	-.77	-1.39	-.86	-1.20						
29	-.75	-.47	-.79	-1.43	---	-1.10						
30	-.64	-.66	-.56	-1.40	---	-1.05						
31	-.45	---	-.70	-1.37	---	-1.05						
MEAN	-.63	-.47	-.79	-1.17	-.89	-.94						
MAX	.19	.35	-.11	-.58	-.32	-.57						
MIN	-1.23	-1.28	-1.44	-1.64	-1.43	-1.20						

CAL YR 1977 MEAN -.84 MAX .35 MIN -1.95

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02282100 CYPRESS CREEK CANAL AT S-37A, NEAR POMPAÑO BEACH, FL

LOCATION.--Lat 26°12'20", long 80°07'57", in NW¼ sec.11, T.49 S., R.42 E., Broward County, Hydrologic Unit 03090202, near center of channel on upstream side of bridge on State Highway 811, 300 ft (91 m) upstream from salinity-control structure 37A, 2.4 mi (3.9 km) upstream from mouth, 2.8 mi (4.5 km) downstream from control structure 37B, 3 mi (5 km) southwest of Pompano Beach, and 3.5 mi (5.6 km) downstream from Pompano Canal.

DRAINAGE AREA.--Indeterminate.

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

GAGE.--Water-stage and deflection-meter recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (State Department of Transportation).

REMARKS.--Records fair. Flow is regulated by the operation of salinity-control structure 37A. Flow is affected by tide and the operation of control structure 37B, 2.8 mi (4.5 km) upstream, and is occasionally reversed. Discharge computed from continuous velocity record obtained from recording deflection meter and slot gate relations.

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

AVERAGE DISCHARGE.--16 years, 124 ft³/s (3.51 m³/s) 89,770 acre-ft/yr (111 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,910 ft³/s (54.1 m³/s) Aug. 19, 1976; maximum gage height, 6.63 ft (2.012 m) Oct. 15, 1965; no flow on some days each year; minimum gage height, -1.20 ft (-0.366 m) Feb. 13, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 845 ft³/s (23.9 m³/s) June 26; maximum gage height, 5.78 ft (1.762 m) Oct. 5; no flow for many days during the year; minimum gage height, 2.13 ft (0.649 m) Jan. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	64	.00	.00	.00	250	275	.00
2	232	.00	.00	.00	.00	.00	.00	.00	414	205	436	.00
3	.00	.00	.00	.00	.00	162	.00	.00	.00	.00	381	.00
4	59	.00	.00	208	.00	237	19	241	.00	.00	415	173
5	277	.00	.00	12	.00	353	.00	.00	.00	362	216	283
6	.00	.00	235	.20	.00	.00	.00	.00	.00	326	246	224
7	172	.00	63	.00	.00	.00	.00	.00	180	176	415	133
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	165	177	471
9	.00	.00	.00	.00	599	668	.00	.00	.00	180	236	378
10	.00	.00	439	.00	110	406	7.9	.00	.00	169	362	312
11	.00	.00	185	.00	6.2	46	6.0	.00	.00	89	657	384
12	.00	.00	50	.00	3.0	190	.00	.00	.00	.00	374	184
13	184	.00	.00	.00	.00	.00	.00	.00	.00	.00	621	177
14	.00	.00	.00	.00	.00	.00	8.8	.00	.00	268	505	200
15	.00	.00	.00	208	.00	223	231	.00	.00	71	802	315
16	.00	.00	95	.00	.00	.00	.00	.00	.00	82	372	230
17	.00	.00	758	.00	.00	.00	29	.00	.00	386	489	163
18	.00	.00	212	.00	288	.00	189	.00	.00	.00	421	245
19	.00	.00	244	.00	85	.00	132	.00	.00	418	383	380
20	.00	.00	.00	315	74	49	8.7	.00	.00	57	451	248
21	.00	.00	.00	89	370	.00	6.3	.00	142	52	409	224
22	.00	15	.00	122	.00	.00	.00	.00	.00	332	476	334
23	.00	.00	.00	65	.00	31	.00	.00	380	205	416	214
24	.00	292	.00	.00	68	.00	2.4	.00	186	86	564	309
25	.00	249	.00	.00	136	.00	.00	2.1	648	.00	353	577
26	.00	.00	271	.00	45	.00	.00	.00	845	.00	322	263
27	.00	.00	.00	99	53	3.9	.00	.00	662	.00	498	339
28	.00	.00	.00	.00	1.9	.00	.00	319	476	.00	339	213
29	.00	.00	.00	.00	---	.00	.00	256	418	.00	182	45
30	.00	.00	.00	104	---	.00	.00	.00	269	483	.00	208
31	.00	---	.00	.20	---	.00	---	.00	---	40	.00	---
TOTAL	924.00	556.00	2552.00	1222.40	1839.10	2432.90	640.10	818.10	4620.00	4402.00	11793.00	7226.00
MEAN	29.8	18.5	82.3	39.4	65.7	78.5	21.3	26.4	154	142	380	241
MAX	277	292	758	315	599	668	231	319	845	483	802	577
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	1830	1100	5060	2420	3650	4830	1270	1620	9160	8730	23390	14330

CAL YR 1977 TOTAL 37039.60 MEAN 101 MAX 1740 MIN .00 AC-FT 73470
WTR YR 1978 TOTAL 39025.60 MEAN 107 MAX 845 MIN .00 AC-FT 77410

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02282100 CYPRESS CREEK CANAL AT S-37A, NEAR POMPANO BEACH, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.52	3.89	4.03	3.72	3.65	3.69	3.46	3.32	3.82	3.36	3.52	3.71
2	3.97	3.86	4.04	3.75	3.56	3.75	3.43	3.68	3.63	3.58	3.68	3.74
3	3.55	3.82	4.04	3.79	3.46	3.76	3.40	3.81	3.43	3.36	3.70	4.02
4	4.17	3.77	4.02	3.75	3.51	3.65	3.33	3.79	3.47	3.62	3.74	4.13
5	3.71	3.76	4.01	3.27	3.75	3.80	3.39	3.36	3.65	3.78	3.92	3.87
6	3.60	3.75	3.83	3.45	3.88	3.41	3.54	3.39	3.73	3.78	3.93	4.00
7	3.68	3.69	3.87	3.61	3.93	3.50	3.64	3.41	3.61	3.89	3.79	3.92
8	3.45	3.65	3.90	3.69	3.95	3.55	3.71	3.36	3.30	3.91	3.73	3.96
9	3.59	3.64	3.93	3.82	3.73	3.67	3.73	3.34	3.36	4.07	3.73	3.93
10	3.65	3.63	3.64	3.87	3.53	3.58	3.72	3.36	3.35	3.93	4.11	3.97
11	3.68	3.63	3.86	3.88	3.60	3.54	3.68	3.48	3.35	3.72	3.77	3.95
12	3.70	3.58	3.60	3.90	3.88	3.43	3.54	3.55	3.33	3.71	3.95	3.67
13	3.45	3.54	3.76	3.93	4.03	3.60	3.40	3.58	3.32	3.71	3.77	3.64
14	3.34	3.49	3.88	4.02	4.14	3.70	3.51	3.61	3.32	3.66	3.78	3.92
15	3.42	3.53	3.95	3.51	4.21	3.54	3.61	3.64	3.30	3.93	3.83	4.51
16	3.44	3.75	3.99	3.45	4.25	3.39	3.46	3.61	3.22	4.00	3.69	4.50
17	3.45	3.91	3.53	3.49	4.27	3.64	3.51	3.59	3.22	3.87	3.60	4.65
18	3.49	4.02	3.90	3.54	3.97	3.80	3.65	3.59	3.38	3.51	3.65	4.52
19	3.50	4.10	3.82	3.64	3.81	3.89	3.30	3.65	3.56	3.75	3.82	4.39
20	3.50	4.13	3.48	3.78	3.95	3.55	3.25	3.66	3.65	4.02	3.77	4.52
21	3.46	4.16	3.50	3.90	3.54	3.33	3.23	3.65	3.37	3.81	3.96	4.54
22	3.44	4.15	3.68	3.95	3.52	3.48	3.23	3.64	3.31	3.68	3.83	4.43
23	3.64	4.02	3.76	4.05	3.73	3.66	3.22	3.60	3.62	3.96	3.82	4.46
24	3.80	3.52	3.81	4.10	3.98	3.48	3.24	3.59	4.07	3.73	3.91	4.59
25	3.82	3.69	3.87	4.03	3.95	3.45	3.32	3.60	3.72	3.58	4.03	4.42
26	3.83	3.46	3.51	3.97	3.85	3.52	3.33	3.72	3.80	3.58	3.83	4.61
27	3.87	3.75	3.52	3.71	3.66	3.39	3.31	4.00	3.82	3.60	3.87	4.57
28	3.86	3.86	3.63	3.44	3.81	3.45	3.25	3.94	3.80	3.62	3.89	4.35
29	3.82	3.93	3.66	3.52	---	3.46	3.22	3.71	3.86	3.64	3.59	4.02
30	3.77	3.99	3.71	3.51	---	3.45	3.16	3.55	3.29	3.86	3.53	4.17
31	3.85	---	3.73	3.68	---	3.48	---	3.66	---	4.08	3.68	---
MEAN	3.65	3.79	3.79	3.73	3.83	3.57	3.43	3.59	3.52	3.75	3.79	4.19
MAX	4.17	4.16	4.04	4.10	4.27	3.89	3.73	4.00	4.07	4.08	4.11	4.65
MIN	3.34	3.46	3.48	3.27	3.46	3.33	3.16	3.32	3.22	3.36	3.52	3.64

CAL YR 1977 MEAN 3.74 MAX 4.35 MIN 3.12
WTR YR 1978 MEAN 3.72 MAX 4.65 MIN 3.16

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

02282300 INTRACOASTAL WATERWAY AT LAUDERDALE-BY-THE-SEA, FL

LOCATION.--Lat 26°11'23", long 80°06'13", in NW¼ sec.18, T.49 S., R.43 E., Broward County, Hydrologic Unit 03090202, on sea wall on west bank, 25 ft (7.6 m) north of bridge on N.E. 50th Street in Lauderdale-by-the-Sea.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1968 to May 1978 (gage heights). Discontinued.

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

REMARKS.--Gage records water levels and tidal fluctuations in the Intracoastal Waterway. The stage published is the maximum and minimum tide event for each calendar day.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 3.69 ft (1.125 m) Oct. 6, 1974; minimum, -2.17 ft (-0.661 m) July 14, 31, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 2.85 ft (0.869 m) Dec 13; minimum, -1.65 ft (-0.503 m) Jan. 10.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTMBER 1978
TIDAL HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.33	2.40	1.61	1.80	1.12	1.95	1.75					
2	2.16	2.46	1.46	1.77	1.30	1.81	1.60					
3	2.21	2.35	1.24	1.74	1.54	1.96	1.56					
4	2.21	2.30	1.41	2.08	1.77	2.04	1.54					
5	2.11	2.25	1.69	1.96	2.15	1.98	1.85					
6	2.00	2.25	1.87	2.04	2.48	1.96	1.87					
7	2.02	2.35	1.94	2.25	2.46	2.24	1.80					
8	2.16	2.45	2.35	2.34	2.64	2.20	1.92					
9	2.26	2.56	2.58	2.12	2.71	2.38	1.83					
10	2.34	2.30	2.52	2.07	2.45	2.15	1.73					
11	2.16	2.50	2.46	2.15	2.41	2.07	1.51					
12	2.33	2.70	2.81	2.20	2.27	1.96	1.54					
13	2.26	2.85	2.66	2.30	2.00	1.79	1.21					
14	2.34	2.65	2.42	2.10	1.56	1.60	1.27					
15	2.46	2.50	2.14	1.75	1.50	1.59	1.30					
16	2.35	2.48	2.05	1.40	1.60	1.50	1.22					
17	2.20	2.40	2.13	1.30	1.41	1.15	1.32					
18	2.10	2.24	1.95	1.40	1.57	1.05	1.40					
19	2.02	2.24	1.82	1.50	1.68	1.14	1.51					
20	1.94	2.34	2.00	1.25	1.72	1.53	1.81					
21	2.00	2.25	2.03	1.30	1.90	1.62	2.35					
22	2.10	2.20	2.08	1.45	1.66	1.78	2.30					
23	2.20	2.26	1.91	1.75	1.75	2.21	2.28					
24	2.40	2.20	2.01	2.00	2.03	2.15	2.32					
25	2.42	2.24	2.08	2.15	2.02	2.17	2.40					
26	2.40	2.20	2.16	2.25	1.97	2.22	---					
27	2.32	2.10	1.99	1.65	1.85	2.11	---					
28	2.26	2.02	1.98	1.30	1.98	1.98	---					
29	2.20	1.99	1.96	1.20	---	1.60	---					
30	2.10	1.72	1.97	1.18	---	1.80	---					
31	2.30	---	1.66	1.17	---	1.68	---					
MEAN	2.21	2.33	2.03	1.77	1.91	1.85	---					
MAX	2.46	2.85	2.81	2.34	2.71	2.38	---					
MIN	1.94	1.72	1.24	1.17	1.12	1.05	---					

CAL YR 1977 MEAN -.29 MAX 2.85 MIN -2.17

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02282300 INTRACOASTAL WATERWAY AT LAUDERDALE-BY-THE-SEA, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
TIDAL LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-.41	.02	-.58	-.57	-1.40	-.84	-1.08					
2	-.27	.20	-.66	-.61	-1.40	-.76	-1.17					
3	-.11	.22	-.80	-.68	-1.32	-.67	-1.40					
4	.24	.15	-.76	-.97	-1.35	-.93	-1.38					
5	.15	-.02	-.74	-1.22	-1.15	-1.20	-1.42					
6	.16	-.25	-.98	-1.14	-1.12	-1.15	-1.45					
7	-.11	-.50	-.97	-1.29	-1.22	-1.15	-1.63					
8	-.13	-.65	-1.04	-1.54	-1.24	-1.22	-1.45					
9	-.29	-1.00	-1.15	-1.64	-.83	-1.22	-1.36					
10	-.39	-1.35	-1.42	-1.65	-.78	-1.13	-1.30					
11	-.78	-1.45	-1.30	-1.45	-.69	-1.24	-1.15					
12	-.97	-1.40	-1.13	-1.25	-.58	-1.14	-1.03					
13	-1.23	-1.15	-.98	-.80	-.72	-1.04	-.87					
14	-1.19	-.90	-.93	-1.12	-.74	-.74	-.70					
15	-1.00	-.85	-.90	-1.05	-.55	-.67	-.70					
16	-.85	-.65	-.85	-1.00	-.67	-.66	-.60					
17	-.95	-.53	-.62	-.93	-.61	-.73	-.60					
18	-.75	-.50	-.72	-.99	-.60	-.79	-.70					
19	-.70	-.35	-.63	-1.02	-.65	-.84	-.86					
20	-.63	-.50	-.61	-1.15	-.68	-.59	-1.01					
21	-.60	-.65	-.58	-1.20	-.75	-.70	-.89					
22	-.55	-.70	-.57	-1.22	-.99	-.80	-1.05					
23	-.70	-.71	-.86	-1.05	-1.05	-.82	-1.20					
24	-.60	-.66	-.80	-1.04	-1.09	-.95	-1.35					
25	-.75	-.68	-.74	-1.06	-1.01	-1.21	-1.24					
26	-.62	-.65	-.64	-1.20	-1.04	-1.16	---					
27	-.55	-.70	-.80	-1.20	-1.03	-1.24	---					
28	-.52	-.70	-.76	-1.35	-.89	-1.28	---					
29	-.60	-.71	-.78	-1.34	---	-1.23	---					
30	-.50	-.72	-.55	-1.38	---	-1.17	---					
31	-.25	---	-.67	-1.41	---	-1.05	---					
MEAN	-.53	-.61	-.82	-1.15	-.93	-.98	---					
MAX	.24	.22	-.55	-.57	-.55	-.59	---					
MIN	-1.23	-1.45	-1.42	-1.65	-1.40	-1.28	---					

CAL YR 1977 MEAN -1.01 MAX .24 MIN -2.17

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 (6.1 m) from south bank, 120 ft (37 m) upstream from salinity-control structure 36, 1.5 mi (2.4 m) east of bridge on U.S. Highway 441, and 5 mi (8 km) 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, deflection-meter recorder and gate opening indicator. Datum of gage is National Geodetic Vertical Datum of 1929. Since Mar. 27, 1962, deflection-meter recorder at same site.

REMARKS.--Records fair. Flow is at times affected by tide and occasionally reversed. Flow is regulated by operation of salinity-control structure 36.

COOPERATION.--Gage height and S-36 gage operation records furnished by South Florida Water Management District.

AVERAGE DISCHARGE.--17 years, 37.2 ft³/s (1.05 m³/s), 26,930 acre-ft/yr (33.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,200 ft³/s (34.0 m³/s) Sept. 3, 1977; maximum gage height, 7.38 ft (2.249 m) Dec. 27, 1958; maximum reverse flow, 61 ft³/s (1.73 m³/s) Oct. 8, 1963; no flow for many days each year; minimum gage height, -0.53 ft (-0.162 m) June 28, 1958.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge 540 ft³/s (15.3 m³/s) Sept. 4; maximum gage height, 5.61 ft (1.710 m) Sept. 26; no flow for many days; minimum gage height 2.35 ft (0.716 m) Jan. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	145	.00	.00	.00	119	53	.00	.00	.00	154	167	94
2	145	.40	.00	.00	34	.00	.00	.00	.00	155	171	93
3	143	.10	.00	.00	14	.00	.00	.00	.00	154	169	97
4	142	.00	.00	.00	.00	.00	.00	.00	.00	153	70	540
5	143	257	.00	.00	.00	.00	.00	.00	.00	286	378	520
6	140	241	314	.00	.00	98	.00	.00	.00	285	127	386
7	142	15	125	.00	.00	55	.00	.00	.00	481	406	369
8	137	.00	115	.00	151	61	.00	.00	.00	302	403	133
9	138	83	74	.00	470	360	.00	.00	.00	290	86	.00
10	137	.00	.00	.00	29	158	.00	.00	.00	.00	.00	428
11	143	.00	.00	.00	.00	.00	.00	.00	.00	.00	433	354
12	144	.00	.00	.00	.00	.00	.00	.00	.00	382	185	8.5
13	143	.00	.00	.00	.00	98	.00	.00	.00	73	188	73
14	141	.00	.00	297	328	172	.00	.00	.00	80	185	447
15	139	.00	.00	83	190	26	362	.00	.00	83	99	405
16	137	.00	249	23	.00	27	.00	.00	.00	298	200	220
17	137	.00	113	.00	.00	368	.00	.00	.00	234	298	.00
18	138	.00	66	.00	.00	129	2.7	.00	.00	82	.00	219
19	138	296	65	.00	218	126	.00	.00	.00	402	261	173
20	140	56	24	283	132	57	.00	.00	.00	310	391	382
21	138	55	.00	.00	114	14	.00	.00	.00	.00	129	287
22	138	21	.00	.00	.00	15	.00	.00	57	.00	.00	273
23	132	.00	.00	.00	49	24	.00	.00	483	426	408	273
24	134	288	83	.00	16	24	.00	.00	193	346	414	266
25	87	224	305	.00	.00	28	.00	.00	528	.00	99	294
26	.00	137	191	.00	.00	27	.00	.00	523	.00	.00	153
27	.00	.00	11	.00	14	312	.00	.00	223	.00	342	361
28	.00	.00	.00	.00	211	56	.00	.00	498	.00	32	68
29	.00	.00	.00	.00	---	.00	.00	.00	161	296	273	314
30	.00	.00	.00	.00	---	.00	.00	284	159	249	198	417
31	170	---	.00	171	---	82	---	101	---	385	88	---
TOTAL	3611.00	1673.50	1735.00	857.00	2089.00	2370.00	364.70	385.00	2825.00	5906.00	6200.00	7647.50
MEAN	116	55.8	56.0	27.6	74.6	76.5	12.2	12.4	94.2	191	200	255
MAX	170	296	314	297	470	368	362	284	528	481	433	540
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	7160	3320	3440	1700	4140	4700	723	764	5600	11710	12300	15170

CAL YR 1977 TOTAL 28498.50 MEAN 78.1 MAX 1200 MIN .00 AC-FT 56530
WTR YR 1978 TOTAL 35663.70 MEAN 97.7 MAX 540 MIN .00 AC-FT 70740

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02282700 MIDDLE RIVER CANAL AT S-36, NEAR FORT LAUDERDALE, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.87	5.20	5.18	5.11	5.03	4.75	5.11	5.01	4.47	4.96	4.86	4.80
2	4.82	5.26	5.28	5.14	5.06	4.90	5.13	5.17	4.52	4.90	5.06	5.00
3	4.85	5.33	5.27	5.21	5.01	5.15	5.12	5.16	4.55	4.88	5.13	5.36
4	4.87	5.37	5.31	5.33	5.10	5.40	5.12	5.11	4.59	4.88	5.26	5.13
5	4.80	4.78	5.36	5.31	5.31	5.45	5.10	5.14	4.69	4.90	4.72	4.79
6	4.73	4.33	4.88	5.29	5.41	5.29	5.12	5.10	4.81	4.87	5.10	4.75
7	4.69	4.29	4.59	5.28	5.41	5.17	5.09	5.02	5.01	4.62	4.90	4.41
8	4.62	4.76	4.35	5.29	5.23	5.10	5.09	4.96	5.02	4.49	4.39	4.46
9	4.59	4.99	4.26	5.36	4.42	4.90	5.07	4.90	4.96	4.28	4.59	5.17
10	4.56	5.16	4.85	5.37	4.71	4.72	5.01	4.86	4.94	4.91	5.25	4.80
11	4.54	5.27	5.10	5.36	5.07	5.18	4.97	4.85	4.88	5.27	4.66	4.41
12	4.50	5.30	5.19	5.34	5.18	5.37	4.94	4.81	4.88	4.88	4.88	4.41
13	4.45	5.34	5.27	5.36	5.31	5.31	4.91	4.77	5.08	4.82	4.91	4.95
14	4.39	5.42	5.33	4.90	5.01	5.17	5.00	4.73	5.09	5.10	4.91	4.60
15	4.33	5.43	5.40	4.65	4.39	5.36	4.77	4.68	5.01	5.24	4.99	4.66
16	4.33	5.43	5.15	4.53	4.74	5.41	4.81	4.58	4.92	5.10	5.15	4.41
17	4.32	5.44	4.85	4.50	4.96	4.89	4.98	4.52	4.82	4.77	4.49	4.97
18	4.30	5.44	5.10	4.73	5.18	4.77	5.04	4.58	4.77	5.09	5.08	5.05
19	4.29	4.52	5.05	4.91	5.05	4.73	5.08	4.71	4.95	4.82	5.04	4.91
20	4.25	4.78	5.05	4.74	4.85	4.79	5.08	4.72	5.03	4.41	4.44	5.04
21	4.17	4.75	5.23	5.04	5.07	4.96	5.04	4.69	5.06	5.00	4.64	4.70
22	4.16	4.81	5.33	5.17	5.08	5.06	5.01	4.62	5.10	5.36	5.17	4.54
23	4.26	4.96	5.41	5.23	5.06	5.07	4.97	4.54	4.77	4.69	4.91	4.43
24	4.31	4.83	5.36	5.27	5.20	5.11	5.04	4.53	4.83	4.31	4.39	4.35
25	4.45	4.43	4.54	5.32	5.21	5.13	5.13	4.61	4.69	4.71	4.53	4.72
26	4.82	4.23	4.29	5.35	5.21	5.13	5.20	4.63	4.77	5.03	5.17	5.16
27	5.07	4.60	4.49	5.33	5.19	4.69	5.13	4.72	4.89	5.23	4.80	4.72
28	5.18	4.79	4.76	5.32	4.86	4.50	5.05	4.96	4.86	5.41	4.98	5.17
29	5.22	4.91	4.95	5.30	---	4.80	5.01	5.18	4.98	5.12	4.77	5.23
30	5.29	5.08	5.04	5.27	---	4.91	4.98	4.69	5.03	4.67	4.61	4.53
31	5.12	---	5.07	4.98	---	4.95	---	4.35	---	4.90	4.74	---
MEAN	4.62	4.97	5.01	5.14	5.05	5.04	5.04	4.80	4.87	4.89	4.86	4.79
MAX	5.29	5.44	5.41	5.37	5.41	5.45	5.20	5.18	5.10	5.41	5.26	5.36
MIN	4.16	4.23	4.26	4.50	4.39	4.50	4.77	4.35	4.47	4.28	4.39	4.35

CAL YR 1977 MEAN 4.79 MAX 6.37 MIN 3.17
WTR YR 1978 MEAN 4.92 MAX 5.45 MIN 4.16

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 (5 m) streamward from left bank, 130 ft (40 m) upstream from salinity-control structure 33, 0.5 mi (0.8 km) east of bridge on U.S. Highway 441, 3 mi (5 km) above mouth, and 4 mi (6 km) west of Fort Lauderdale.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1955 to February 1962 (gage heights), March 1962 to current year. Records of gage heights prior to October 1961 are available in files of the Geological Survey.

GAGE.--Water-stage recorder, deflection-meter recorder and gate opening indicator. Datum of gage is National Geodetic Vertical Datum of 1929. (corps of Engineers bench mark).

REMARKS.--Records good. Flow is at time affected by tide and is occasionally reversed. Flow is regulated by operation of salinity-control structure 33.

COOPERATION.--Gage height and salinity-control structure 33 gage-operation records furnished by South Florida Water Management District.

AVERAGE DISCHARGE.--16 years, 23.1 ft³/s (0.65 m³/s), 16,720 acre-ft/yr (20.6 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 604 ft³/s (17.1 m³/s) Aug. 19, 1976; maximum gage height 6.05 ft (1.844 m) Apr. 19, 1957; maximum reverse flow, 157 ft³/s (4.45 m³/s) Sept. 8, 1956; no flow on some days each year; minimum gage height, -0.82 ft (-0.250 m) Mar. 4, 1958.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 135 ft³/s (3.82 m³/s) June 25; maximum gage height, 4.02 ft (1.225 m) Nov. 7; no flow for many days; minimum gage height, 1.34 ft (0.408 m) Jan. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	.00	34	.00	17	35	12	9.3	.00	35	22	18
2	18	.00	43	.00	15	10	32	.00	11	20	39	19
3	29	.00	32	.00	21	8.9	22	21	.00	26	26	.00
4	30	.00	32	.00	41	.00	72	15	14	58	34	17
5	28	.00	30	.00	33	.00	36	.00	29	66	36	34
6	9.3	.00	43	.00	25	.00	15	.00	37	42	45	28
7	21	54	31	.00	20	.00	16	.00	26	40	50	44
8	17	.00	21	.00	21	.00	9.0	.00	28	36	28	45
9	3.4	1.6	28	.00	36	28	12	.00	27	41	22	42
10	18	31	45	.00	25	49	16	.00	15	11	34	54
11	.00	12	46	.00	23	26	8.9	.00	.00	18	11	21
12	19	17	39	.00	27	41	.00	.00	13	16	24	28
13	.00	12	49	.00	19	31	.00	.00	37	19	51	56
14	13	13	33	.00	11	42	21	.00	28	17	16	55
15	.00	14	32	.00	.00	23	38	.00	12	40	23	24
16	.00	7.7	43	.00	.00	27	9.6	.00	.00	25	6.4	31
17	.00	15	66	.00	2.9	18	18	.00	15	52	24	.00
18	.00	21	36	.00	28	17	47	11	5.2	40	13	19
19	.00	17	40	18	63	26	34	11	24	14	16	16
20	.00	2.1	35	48	44	24	21	21	20	20	18	.00
21	.00	14	34	43	18	12	39	2.9	.00	32	19	.00
22	.00	13	24	23	7.6	16	12	7.2	31	26	21	19
23	.00	25	.00	19	13	28	6.0	.00	38	16	46	.00
24	.00	69	.00	11	36	7.1	40	15	57	16	41	.00
25	.00	.00	.00	18	15	.00	27	19	135	5.5	9.5	51
26	.00	.00	.00	17	30	.00	27	.00	64	.00	.00	41
27	.00	.00	.00	15	29	16	34	14	68	14	36	17
28	.00	.00	.00	12	24	12	5.9	33	40	11	23	13
29	.00	.00	.00	16	---	25	2.0	34	24	34	40	12
30	.00	.00	.00	19	---	11	16	19	38	33	37	13
31	.00	---	.00	19	---	24	---	13	---	22	35	---
TOTAL	240.70	338.40	816.00	278.00	644.50	557.00	648.40	245.40	836.20	845.50	845.90	717.00
MEAN	7.76	11.3	26.3	8.97	23.0	18.0	21.6	7.92	27.9	27.3	27.3	23.9
MAX	35	69	66	48	63	49	72	34	135	66	51	56
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	477	671	1620	551	1280	1100	1290	487	1660	1680	1680	1420

CAL YR 1977 TOTAL 10305.00 MEAN 28.2 MAX 432 MIN .00 AC-FT 20440
WTR YR 1978 TOTAL 7013.00 MEAN 19.2 MAX 135 MIN .00 AC-FT 13910

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02283200 PLANTATION ROAD CANAL AT S-33, NEAR FORT LAUDERDALE, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.24	3.71	3.53	2.75	3.22	3.25	3.32	3.37	3.45	3.14	3.24	3.28
2	3.28	3.70	3.27	2.76	3.25	3.29	3.25	3.30	3.21	3.17	3.17	3.28
3	3.31	3.72	3.22	2.67	3.26	3.27	3.26	3.30	3.32	3.25	3.17	3.44
4	3.15	3.74	3.32	2.61	3.23	3.37	3.06	3.40	3.32	3.18	3.26	3.40
5	3.30	3.82	3.23	2.61	3.25	3.46	3.28	3.34	3.22	3.16	3.30	3.18
6	3.27	3.85	3.20	2.85	3.27	3.48	3.26	3.46	3.30	3.17	3.18	3.23
7	3.32	3.99	3.24	3.03	3.26	3.44	3.26	3.47	3.30	3.17	3.23	3.26
8	3.39	3.94	3.25	2.99	3.21	3.43	3.20	3.40	3.28	3.20	3.31	3.14
9	3.30	3.83	3.21	2.97	3.16	3.29	3.35	3.41	3.24	3.10	3.20	3.19
10	3.30	3.49	3.11	2.68	3.17	3.24	3.25	3.42	3.20	3.22	3.31	3.24
11	3.47	3.26	3.27	2.53	3.27	3.29	3.28	3.41	3.20	3.05	3.30	3.22
12	3.30	3.27	3.14	2.73	3.28	3.21	3.41	3.38	3.21	3.21	3.34	3.23
13	3.45	3.33	3.19	3.26	3.36	3.20	3.37	3.36	3.19	3.22	3.25	3.26
14	3.36	3.32	3.25	3.31	3.28	3.13	3.33	3.29	3.28	3.24	3.32	3.22
15	3.34	3.40	3.28	3.28	3.30	3.25	3.22	3.26	3.18	3.23	3.38	3.28
16	3.38	3.31	3.24	3.39	3.44	3.24	3.28	3.17	3.36	3.20	3.33	3.25
17	3.38	3.31	3.15	3.43	3.29	3.24	3.27	3.13	3.27	3.21	3.24	3.22
18	3.36	3.27	3.13	3.40	3.32	3.26	3.28	3.22	3.33	3.19	3.38	3.30
19	3.35	3.23	3.16	3.27	3.30	3.24	3.31	3.27	3.17	3.21	3.27	3.22
20	3.34	3.35	3.25	3.13	3.17	3.20	3.26	3.31	3.21	3.19	3.24	3.36
21	3.32	3.30	3.13	3.20	3.25	3.33	3.27	3.29	3.39	3.13	3.36	3.47
22	3.33	3.31	3.14	3.15	3.32	3.29	3.30	3.36	3.21	3.20	3.17	3.30
23	3.44	3.25	2.83	3.22	3.32	3.24	3.42	3.34	3.18	3.28	3.31	3.36
24	3.50	3.06	2.78	3.32	3.26	3.24	3.21	3.26	3.11	3.23	3.20	3.40
25	3.46	3.68	2.73	3.32	3.17	3.30	3.29	3.22	2.99	3.21	3.23	3.26
26	3.50	3.85	2.85	3.23	3.17	3.41	3.21	3.39	3.24	3.35	3.40	3.29
27	3.58	3.87	2.86	3.20	3.25	3.37	3.22	3.31	3.19	3.26	3.27	3.24
28	3.59	3.87	2.85	3.18	3.29	3.24	3.38	3.25	3.19	3.31	3.20	3.32
29	3.63	3.85	2.84	3.22	---	3.28	3.26	3.20	3.16	3.23	3.22	3.27
30	3.63	3.84	2.83	3.29	---	3.29	3.28	3.29	3.15	3.17	3.29	3.42
31	3.67	---	2.80	3.30	---	3.18	---	3.19	---	3.22	3.19	---
MEAN	3.39	3.56	3.11	3.07	3.26	3.29	3.28	3.32	3.24	3.20	3.27	3.29
MAX	3.67	3.99	3.53	3.43	3.44	3.48	3.42	3.47	3.45	3.35	3.40	3.47
MIN	3.15	3.06	2.73	2.53	3.16	3.13	3.06	3.13	2.99	3.05	3.17	3.14

CAL YR 1977	MEAN 2.95	MAX 3.99	MIN .90
WTR YR 1978	MEAN 3.27	MAX 3.99	MIN 2.53

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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 (152 m) upstream from Hillsboro Canal, and 2.7 mi (4.3 km) 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.--WRD FL-77-2A: 1974.

GAGE.--Dual water-stage recorder in pump station 2, gate-opening indicator, and pump tachometer. Datum of gage is National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Prior to Jan. 18, 1965, water-stage recorder at site 1,600 ft (487 m) downstream at same datum.

REMARKS.--Records good. 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 furnished by South Florida Water Management District.

AVERAGE DISCHARGE.--11 years, -27.4 ft³/s (-0.78 m³/s), -19,840 acre-ft/yr (-24.5 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,450 ft³/s (69.4 m³/s) Mar. 20, 1969; maximum gage height, 14.09 ft (4.295 m) Sept. 28, 1962; maximum daily reverse flow 3,910 cfs (111 m³/s) July 23, 1973; no flow for some days each year; minimum gage height 8.60 ft (2.621 m) Sept. 23, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,440 ft³/s (40.8 m³/s) May 16; maximum gage height, 13.38 ft (4.078 m) Dec. 17; maximum daily reverse flow, 3,130 ft³/s (88.6 m³/s) Nov. 5; no flow for many days; minimum gage height, 9.45 ft (2.880 m) Nov. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	536	-274	.00	.00	339	644	859	1230	-243	-1410	.00
2	-571	476	-363	.00	.00	328	654	853	1210	-437	-1920	-317
3	.00	406	.00	-475	.00	-695	646	-418	177	-582	-1940	-996
4	-548	-2340	.00	.00	.00	-380	651	-693	.00	-602	-1060	-789
5	-284	-3130	-312	.00	.00	.00	652	-148	-231	-576	-894	-910
6	.00	-1780	-804	.00	.00	.00	653	-1320	-450	-1500	-1100	-566
7	.00	-531	-258	.00	771	.00	663	-2330	-605	-613	-1120	.00
8	.00	-372	.00	.00	438	.00	665	-1650	-710	-1000	-556	.00
9	.00	.00	-844	.00	-1190	-1580	661	-433	-473	-312	-225	.00
10	.00	.00	-1300	.00	75	-1610	796	-474	.00	-505	.00	.00
11	.00	.00	-424	.00	96	-447	1180	.00	.00	-394	-528	-482
12	330	.00	-736	.00	.00	.00	1410	242	-353	-1140	.00	-456
13	558	.00	-477	-365	.00	.00	907	390	-394	-592	-690	.00
14	701	182	-470	.00	.00	.00	965	394	.00	-622	-864	.00
15	726	404	-462	.00	.00	.00	926	881	227	-907	-710	-413
16	738	250	-611	.00	.00	.00	.00	1440	369	-862	.00	.00
17	752	372	-2020	-174	-870	227	936	991	393	-720	-572	.00
18	729	478	-1550	.00	-448	349	772	-861	402	-1020	-517	.00
19	878	452	-618	-655	.00	367	153	-1810	180	-1050	.00	.00
20	1090	437	-522	-1430	-527	601	696	-975	.00	-1920	.00	.00
21	1130	429	-425	-620	-357	528	1160	.00	.00	-1130	-462	.00
22	1080	407	.00	-783	.00	289	1180	-461	.00	-355	-412	.00
23	964	346	.00	-512	.00	332	1050	.00	-505	-588	-396	-517
24	513	-1630	.00	-443	218	438	-976	608	-605	-516	-569	-1200
25	825	-714	.00	-486	.00	376	-753	1010	-776	.00	-826	-1290
26	915	.00	.00	.00	.00	.00	.00	994	-1280	.00	.00	-579
27	921	.00	-457	.00	.00	557	.00	737	-1060	.00	.00	.00
28	905	.00	.00	.00	.00	297	593	.00	-1280	-212	.00	.00
29	911	-1120	.00	.00	---	.00	913	-304	-1120	.00	.00	.00
30	957	-999	.00	.00	---	420	878	124	-701	-1670	-320	.00
31	725	---	.00	.00	---	654	---	889	---	-1030	-810	---
TOTAL	14945.00	-7441.00	-12927.00	-5943.00	-1794.00	1390.00	18675.00	-1465.00	-6355.00	-21098.00	-17901.00	-8515.00
MEAN	482	-248	-417	-192	-64.1	44.8	623	-47.3	-212	-681	-577	-284
MAX	1130	536	.00	.00	771	654	1410	1440	1230	.00	.00	.00
MIN	-571	-3130	-2020	-1430	-1190	-1610	-976	-2330	-1280	-1920	-1940	-1290
AC-FT	29640	-14760	-25640	-11790	-3560	2760	37040	-2910	-12610	-41850	-35510	-16890

CAL YR 1977	TOTAL	-1827.00	MEAN	-5.01	MAX	1650	MIN	-3380	AC-FT	-3620
WTR YR 1978	TOTAL	-48429.00	MEAN	-133	MAX	1440	MIN	-3130	AC-FT	-96060

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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 (9.1 m) from west bank, 800 ft (244 m) downstream from Hillsboro Canal, 1,600 ft (488 m) downstream from hurricane gate structure 4 and pump station 2 at Lake Okeechobee, and 2.5 mi (4.0 km) north of South Bay.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1957 to current year.

REVISED RECORD.--WRD FL-77-2A: 1974, 1975.

GAGE.--Dual water-stage recorder in pump station 2. Datum of gage is National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Prior to Jan. 18, 1954, water stage and deflection-meter recorder at site 1,600 ft (488 m) downstream at same datum. Jan. 19, 1965, to Sept. 30, 1967 deflection-meter recorder at site 1,600 ft (488 m) 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.--21 years, 64.3 ft³/s (1.82 m³/s), 46,550 acre-ft/yr (57.4 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,100 ft³/s (116 m³/s) June 16, 1977; maximum gage height, 14.09 ft (4.295 m) Sept. 28, 1962; maximum daily reverse flow, 3,080 ft³/s (87.2 m³/s) June 21, 1959; minimum gage height, 8.60 ft (2.621 m) Sept. 23, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 917 ft³/s (26.0 m³/s) Apr. 12; maximum gage height, 13.38 ft (4.078 m) Dec. 17; maximum daily reverse flow, 2,450 ft³/s (69.4 m³/s) Nov. 5; minimum gage height, 9.45 ft (2.880 m) Nov. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158	369	-10	122	136	213	353	476	757	-95	-1040	45
2	-223	344	-112	117	111	253	368	456	734	-224	-1410	-213
3	88	250	189	-368	95	-490	407	-175	260	-542	-1350	-723
4	-270	-1870	61	126	94	-225	361	-360	91	-434	-647	-601
5	-113	-2450	-106	167	92	12	397	45	111	-453	-563	-544
6	30	-1360	-470	169	47	48	391	-612	-146	-924	-721	-369
7	23	-339	-131	173	511	63	359	-1510	-369	-239	-713	-86
8	137	-375	120	174	245	69	421	-959	-441	-674	-326	79
9	124	-36	-498	-28	-872	-1070	432	-9.0	-334	-227	-57	29
10	55	-139	-631	155	-33	-1040	503	-138	-19	-274	61	90
11	64	-341	-86	161	63	-266	765	170	48	-251	-397	3.0
12	224	-338	-348	168	54	15	917	198	-44	-1010	127	-26
13	338	-329	-143	-85	81	41	555	269	-237	-515	-499	200
14	434	80	-77	204	109	80	704	236	20	-701	-403	236
15	386	225	-194	193	119	79	650	635	188	-921	-375	-24
16	383	177	-275	195	117	73	130	864	332	-867	129	47
17	389	245	-1570	95	-515	156	716	595	364	-583	-234	-104
18	396	293	-949	188	-278	252	529	-431	364	-642	-337	164
19	539	317	-317	-271	-107	290	135	-1090	169	-613	-102	196
20	664	352	-253	-950	-404	417	492	-489	35	-1220	-82	101
21	731	349	-134	-398	-239	320	721	-30	-25	-718	-300	107
22	693	302	206	-453	-66	182	750	-231	-112	-67	-310	44
23	603	284	98	-232	-56	218	662	-30	-608	-322	-288	-134
24	261	-1170	148	-67	116	263	-1070	365	-695	-301	-324	-702
25	462	-428	179	-146	-66	217	-664	606	-765	150	-490	-628
26	534	177	100	174	-41	7.2	95	596	-1270	139	17	-78
27	570	189	-332	141	-35	355	91	442	-885	134	16	181
28	583	177	84	176	1.5	211	410	-30	-938	-116	-21	195
29	539	-721	119	131	---	93	583	-152	-842	176	14	78
30	607	-478	133	209	---	234	536	54	-562	-1130	-332	-60
31	470	---	116	231	---	378	---	533	---	-639	-458	---
TOTAL	9879	-6244	-5083	471	-720.5	1448.2	11699	294.0	-4819	-14103	-11415	-2497.0
MEAN	319	-208	-164	15.2	-25.7	46.7	390	9.48	-161	-455	-368	-83.2
MAX	731	369	206	231	511	417	917	864	757	176	129	236
MIN	-270	-2450	-1570	-950	-872	-1070	-1070	-1510	-1270	-1220	-1410	-723
AC-FT	19590	-12380	-10080	934	-1430	2870	23200	583	-9560	-27970	-22640	-4950

CAL YR 1977 TOTAL 14756.70 MEAN 40.4 MAX 4100 MIN -2560 AC-FT 29270
WTR YR 1978 TOTAL -21090.30 MEAN -57.8 MAX 917 MIN -2450 AC-FT -41830

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02283500 NORTH NEW RIVER CANAL BELOW HGS-4, NEAR SOUTH BAY, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.97	11.97	10.82	11.34	11.14	11.69	12.06	11.58	11.19	10.52	10.37	10.92
2	11.03	11.74	10.91	11.39	11.54	11.80	12.01	11.69	11.23	10.75	10.45	11.08
3	11.72	11.75	11.66	10.77	11.48	11.21	12.02	11.50	10.99	11.12	10.50	10.43
4	11.48	11.64	11.77	10.84	11.35	10.15	11.89	10.55	10.65	11.15	10.19	10.73
5	11.23	11.23	11.20	10.96	11.20	10.65	11.85	10.73	10.72	11.34	10.08	10.39
6	11.07	9.95	10.27	10.81	11.06	10.83	11.79	10.16	10.65	11.08	10.26	10.35
7	11.33	10.62	9.88	10.95	11.00	11.10	11.73	10.37	11.02	10.45	10.18	10.53
8	11.14	11.06	10.62	11.17	11.96	11.25	11.62	10.09	11.19	10.51	10.01	10.52
9	11.07	11.35	10.90	11.48	11.45	10.93	11.62	10.68	10.66	10.48	10.41	10.62
10	11.03	11.73	10.10	10.54	10.12	10.01	11.67	10.71	10.64	10.82	10.75	10.65
11	10.82	11.59	10.58	10.48	10.44	10.83	11.78	10.74	10.95	10.77	10.94	10.95
12	10.76	11.30	11.03	10.79	10.55	11.43	12.11	10.70	10.98	10.92	11.36	10.74
13	10.96	11.02	10.77	10.62	10.70	11.68	12.11	10.62	10.68	10.33	11.33	10.71
14	10.98	10.98	10.88	10.84	10.91	11.70	11.85	10.67	10.85	10.96	10.08	10.83
15	11.11	11.14	10.91	10.91	10.89	11.67	12.49	10.71	10.88	10.98	9.96	10.84
16	11.09	11.28	10.98	10.83	11.17	11.62	11.59	11.31	10.71	11.28	10.25	11.45
17	11.09	11.19	11.66	10.88	10.64	11.50	11.44	11.34	10.26	11.26	11.08	10.55
18	10.99	11.40	9.95	11.44	10.41	11.64	11.96	11.07	9.91	11.09	10.96	10.63
19	10.85	11.53	10.19	10.93	12.28	11.73	11.63	10.08	10.21	10.79	10.88	11.02
20	10.93	11.58	10.79	10.14	10.49	11.93	11.52	10.04	10.38	10.43	11.19	10.96
21	10.99	11.65	10.93	10.24	10.70	12.29	11.95	10.95	10.28	10.14	10.85	10.76
22	11.22	11.75	11.42	11.41	10.61	12.03	11.93	10.72	10.77	10.17	10.74	10.63
23	11.68	11.83	11.75	11.10	10.35	12.06	11.94	10.69	10.81	10.83	10.71	10.97
24	11.56	11.33	12.02	11.17	10.44	11.90	11.79	10.61	11.32	10.90	10.59	10.81
25	11.43	9.94	12.10	10.83	11.08	12.05	10.19	10.87	11.38	10.74	10.11	9.95
26	11.79	10.82	12.38	11.52	11.38	11.59	11.11	10.95	11.01	10.72	10.54	10.51
27	11.90	11.35	11.29	11.55	11.62	11.53	11.27	11.25	10.04	10.70	10.85	10.98
28	11.86	11.38	10.75	11.62	11.78	11.92	11.15	10.76	10.08	10.49	10.88	11.03
29	11.82	11.01	10.92	11.25	---	11.94	11.41	10.86	10.27	10.75	11.14	10.87
30	11.77	9.93	11.17	11.03	---	11.90	11.53	10.79	10.42	11.25	11.52	11.37
31	12.12	---	11.39	11.00	---	12.08	---	10.79	---	10.19	10.52	---
MEAN	11.28	11.23	11.03	10.99	11.03	11.50	11.70	10.79	10.70	10.77	10.63	10.76
MAX	12.12	11.97	12.38	11.62	12.28	12.29	12.49	11.69	11.38	11.34	11.52	11.45
MIN	10.76	9.93	9.88	10.14	10.12	10.01	10.19	10.04	9.91	10.14	9.96	9.95

CAL YR 1977 MEAN 11.28 MAX 12.58 MIN 9.48
WTR YR 1978 MEAN 11.04 MAX 12.49 MIN 9.88

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02284300 NORTH NEW RIVER CANAL AT S-7, AT TERRYTOWN, FL

LOCATION.--Lat 26°20'07", long 80°32'14", in SW¼ sec.22, T.47 S., R.38 E., Palm Beach County, Hydrologic Unit 03090202, 50 ft (15 m) east of U.S. Highway 27 in Terrytown, and 25 mi (40 km) south of Okeelanta.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1944 to December 1959 (weekly gage heights and periodic discharge measurements), January 1960 to current year. Published as "Broward-Palm Beach County line, near Fort Lauderdale", October 1944 to December 1959.

GAGE.--Dual water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark).

REMARKS.--Flow regulated by pumpage and operation of gate at pump station 7, and by operation of hurricane gate structure 4 and pump station 2 at Lake Okeechobee. Discharge is summation of gate discharge and S-7 pumpage.

COOPERATION.--Records furnished by South Florida Water Management District.

AVERAGE DISCHARGE.--18 years (1961-78), 194 ft³/s (5.49 m³/s), 140,500 acre-ft/yr, (173 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,560 ft³/s (72.5 m³/s) June 27, 1974; maximum daily gage height, 14.23 ft (4.337 m) June 7, 1978; maximum daily reverse flow, 755 ft³/s (21.4 m³/s) July 31, 1966; no flow for many days each year; minimum gage height, 8.21 ft (2.502 m) Jan. 10, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,350 ft³/s (66.6 m³/s) Aug. 3; maximum daily gage height, 14.23 ft (4.337 m) June 7; no flow for many days; minimum daily gage height, 10.71 ft (3.264 m) Oct. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	150	.00	.00	.00	.00	.00	.00	.00	1680	345
2	.00	.00	325	.00	.00	.00	.00	.00	.00	.00	2330	.00
3	.00	.00	.00	426	.00	585	.00	.00	.00	.00	2350	.00
4	529	667	.00	.00	.00	330	.00	293	.00	.00	1620	.00
5	281	1770	180	.00	.00	.00	.00	173	141	56	1040	304
6	.00	1670	647	.00	.00	.00	.00	564	235	1130	911	339
7	.00	759	152	.00	.00	.00	.00	.00	462	602	910	314
8	.00	407	.00	.00	.00	.00	.00	.00	537	677	875	317
9	.00	.00	594	.00	982	1060	.00	.00	262	268	912	.00
10	.00	.00	1220	.00	344	363	.00	228	.00	266	439	.00
11	.00	.00	993	.00	.00	.00	.00	.00	.00	240	424	407
12	.00	.00	554	.00	.00	.00	.00	.00	270	943	427	331
13	.00	.00	328	332	.00	.00	.00	.00	254	599	1180	317
14	.00	.00	319	.00	.00	.00	.00	.00	.00	521	1170	.00
15	.00	.00	349	.00	.00	.00	.00	.00	.00	558	873	406
16	.00	.00	456	.00	.00	.00	.00	.00	.00	826	427	.00
17	.00	.00	1240	.00	694	.00	.00	.00	.00	549	494	.00
18	.00	.00	1570	.00	266	.00	.00	643	.00	943	428	.00
19	.00	.00	697	534	518	.00	.00	740	.00	855	404	.00
20	.00	.00	392	1490	1020	.00	.00	493	.00	1360	516	.00
21	.00	.00	334	1140	262	.00	.00	.00	.00	958	468	.00
22	.00	.00	.00	384	.00	.00	.00	318	.00	535	361	.00
23	.00	.00	.00	517	.00	.00	.00	.00	324	.00	396	.00
24	.00	854	.00	422	.00	.00	1070	.00	.00	433	324	.00
25	.00	574	.00	412	.00	.00	777	.00	.00	.00	.00	254
26	.00	.00	.00	.00	.00	.00	.00	.00	968	.00	.00	.00
27	.00	.00	398	.00	.00	.00	.00	.00	557	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	115	.00	.00
29	.00	637	.00	.00	---	.00	.00	.00	115	.00	.00	.00
30	.00	704	.00	.00	---	.00	.00	.00	.00	911	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	990	.00	---
TOTAL	810.00	8042.00	10898.00	5657.00	4086.00	2338.00	1847.00	3452.00	4125.00	14335.00	20959.00	3334.00
MEAN	26.1	268	352	182	146	75.4	61.6	111	138	462	676	111
MAX	529	1770	1570	1490	1020	1060	1070	740	968	1360	2350	407
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	1610	15950	21620	11220	8100	4640	3660	6850	8180	28430	41570	6610

CAL YR 1977 TOTAL 71770.00 MEAN 197 MAX 2460 MIN .00 AC-FT 142400
WTR YR 1978 TOTAL 79883.00 MEAN 219 MAX 2350 MIN .00 AC-FT 158400

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

02284642 EVERGLADES 2-111S NEAR ANDYTOWN, FL

LOCATION.--Lat 26°16'50", long 80°25'10", in SE¼ sec.11, T.48 S., R.39 E., Broward County, Hydrologic Unit 03090202, in water conservation area 2A, 5 mi (8.0 km) east of U.S. Highway 27, and 11 mi (17.7 km) north of Andytown.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1973 to current year (gage heights).

GAGE.--Water-stage recorder and Data Collection Platform (DCP). Datum of gage is National Geodetic Vertical Datum of 1929 (datum furnished by the Corps of Engineers).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 14.66 ft (4.468 m) Sept. 22, 1977; minimum, 10.71 ft (3.264 m) May 6, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 14.58 ft (4.444 m) Oct. 1; minimum, 13.19 ft (4.020 m) May 18.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.56	13.74	13.73	14.00	14.39	14.34	13.95	13.69	13.25	13.69	13.61	13.66
2	14.46	13.73	13.73	14.02	14.41	14.31	13.94	13.67	13.24	13.66	13.63	13.65
3	14.34	13.72	13.72	14.04	14.42	14.33	13.94	13.66	13.22	13.66	13.65	13.65
4	14.24	13.73	13.71	14.07	14.42	14.36	13.94	13.65	13.27	13.66	13.70	13.72
5	14.15	13.78	13.70	14.09	14.42	14.33	13.93	13.65	13.32	13.65	13.75	13.84
6	14.13	13.81	13.72	14.10	14.41	14.31	13.93	13.63	13.30	13.67	13.83	13.81
7	14.14	13.83	13.73	14.12	14.40	14.28	13.91	13.60	13.30	13.69	13.88	13.79
8	14.14	13.85	13.73	14.14	14.41	14.25	13.89	13.56	13.29	13.67	13.90	13.78
9	14.12	13.85	13.74	14.16	14.48	14.28	13.87	13.52	13.29	13.65	13.92	13.77
10	14.10	13.84	13.84	14.16	14.48	14.29	13.86	13.48	13.29	13.62	13.93	13.73
11	14.08	13.82	13.85	14.17	14.48	14.26	13.84	13.46	13.29	13.60	13.92	13.70
12	14.05	13.80	13.87	14.21	14.48	14.23	13.82	13.42	13.31	13.57	13.92	13.68
13	14.02	13.78	13.87	14.23	14.47	14.19	13.80	13.38	13.36	13.56	13.93	13.67
14	13.98	13.76	13.88	14.24	14.46	14.16	13.80	13.34	13.43	13.53	13.88	13.66
15	13.95	13.75	13.87	14.25	14.44	14.10	13.83	13.29	13.40	13.56	13.84	13.67
16	13.92	13.75	13.87	14.26	14.45	14.07	13.82	13.25	13.39	13.64	13.80	13.69
17	13.89	13.74	13.93	14.29	14.46	14.01	13.80	13.21	13.38	13.76	13.77	13.67
18	13.88	13.73	13.96	14.31	14.49	13.97	13.78	13.22	13.35	13.67	13.75	13.66
19	13.87	13.72	13.97	14.35	14.53	13.94	13.76	13.22	13.36	13.60	13.73	13.69
20	13.85	13.71	13.98	14.41	14.53	13.92	13.75	13.24	13.39	13.55	13.73	13.67
21	13.85	13.70	13.99	14.45	14.57	13.89	13.73	13.25	13.45	13.52	13.73	13.65
22	13.84	13.70	13.99	14.48	14.55	13.87	13.71	13.25	13.43	13.49	13.72	13.65
23	13.84	13.70	13.99	14.51	14.52	13.85	13.70	13.25	13.43	13.46	13.73	13.65
24	13.83	13.72	13.99	14.50	14.49	13.84	13.72	13.25	13.45	13.44	13.76	13.64
25	13.83	13.73	13.99	14.49	14.46	13.85	13.75	13.25	13.45	13.42	13.75	13.68
26	13.82	13.73	14.02	14.48	14.43	13.86	13.75	13.25	13.49	13.39	13.73	13.73
27	13.81	13.72	14.00	14.46	14.40	13.86	13.73	13.26	13.55	13.39	13.72	13.71
28	13.79	13.71	14.00	14.43	14.37	13.87	13.72	13.27	13.62	13.40	13.69	13.70
29	13.78	13.71	13.98	14.40	---	13.91	13.71	13.29	13.63	13.42	13.67	13.68
30	13.76	13.73	13.99	14.38	---	13.91	13.70	13.28	13.65	13.57	13.67	13.69
31	13.75	---	13.99	14.38	---	13.94	---	13.27	---	13.57	13.67	---
MEAN	13.99	13.75	13.88	14.28	14.46	14.08	13.81	13.39	13.39	13.57	13.77	13.70
MAX	14.56	13.85	14.02	14.51	14.57	14.36	13.95	13.69	13.65	13.76	13.93	13.84
MIN	13.75	13.70	13.70	14.00	14.37	13.84	13.70	13.21	13.22	13.39	13.61	13.64
CAL YR 1977	MEAN 13.51		MAX 14.64	MIN 12.45								
WTR YR 1978	MEAN 13.84		MAX 14.57	MIN 13.21								

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 (6 m) upstream from lock and salinity-control structure on State Highway 84, and 6 mi (10 km) 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 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 (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-meter recorder near left bank 20 ft (6 m) upstream from lock and dam. Auxiliary water-stage recorder at downstream end of lock chamber. Aug. 1, 1947, to July 20, 1950, at site 500 ft (152 m) downstream.

REMARKS.--Records poor. Flow regulated at and above station by control structures for irrigation, drainage, and flood and fire control. Several small diversions above station for irrigation. Since February 1952, flow materially affected by control structure and 20-mile bend, 14 mi (23 km) upstream. Discharge computed from relations between discharge, head, and submergence.

COOPERATION.--Stoplog record furnished by South Florida Water Management District.

AVERAGE DISCHARGE.--38 year, 417 ft³/s (11.8 m³/s), 301,900 acre-ft/yr (372 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 3,280 ft³/s (92.9 m³/s) Nov. 19, 1947; maximum gage height, 10.83 ft (3.301 m) Oct. 17, 1947; no flow May 5, 6, 13, 15-20, 24-26, 1966; minimum gage height, 0.08 ft (0.024 m), Aug. 13, 1978.

EXTREMES OUTSIDE OF PERIOD OF RECORD.--Flood of Oct. 15, 1929, reached a stage of 7.66 ft (2.335 m), present site and datum, discharge, 5,400 ft³/s (152 m³/s) from records by Everglades Drainage District.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 816 ft³/s (23.1 m³/s) June 25; maximum gage height, 4.93 ft (1.503 m) Feb. 19; flow consists of leakage, estimated as 15 ft³/s (0.42 m³/s) for many days; minimum gage height 0.08 ft (0.024 m) Aug. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	364	240	238	44	21	22	15	15	15	112	260	55
2	358	259	217	50	21	28	15	15	15	118	285	83
3	442	266	202	73	29	64	15	15	15	119	304	96
4	218	257	196	85	38	247	15	15	15	122	293	226
5	198	256	196	54	231	355	15	15	15	142	260	430
6	199	287	213	40	187	127	15	15	15	296	237	422
7	209	277	277	38	24	15	15	15	15	300	323	375
8	217	229	263	38	48	15	15	15	15	277	352	267
9	203	220	262	410	165	249	15	15	15	237	387	224
10	202	256	352	77	156	192	15	15	15	70	358	243
11	215	247	357	95	128	15	15	15	15	57	345	149
12	200	192	320	83	111	15	15	15	15	64	305	134
13	189	151	275	83	99	15	15	15	15	54	262	201
14	184	148	337	70	99	15	15	15	25	38	217	303
15	186	160	328	94	91	15	15	15	26	43	158	272
16	189	172	332	733	88	15	15	15	17	72	159	258
17	60	180	384	340	86	15	15	15	15	105	159	233
18	162	180	389	159	97	15	15	15	15	132	123	94
19	156	175	251	162	338	15	15	15	15	137	113	83
20	86	172	202	201	296	15	15	15	116	134	130	96
21	111	165	103	308	390	15	15	15	126	189	96	99
22	207	186	62	380	122	15	15	15	110	276	73	207
23	275	201	37	384	41	15	15	15	181	265	112	254
24	300	242	53	370	81	15	15	15	231	358	133	220
25	282	308	63	331	51	15	15	15	816	585	143	221
26	238	323	92	327	17	15	15	15	663	486	126	175
27	239	315	65	305	19	15	15	15	573	369	89	110
28	241	310	42	291	20	15	15	15	605	265	87	105
29	235	303	40	286	---	15	15	15	275	193	86	121
30	233	299	41	280	---	15	15	15	114	269	87	119
31	248	---	42	266	---	15	---	15	---	270	55	---
TOTAL	6846	6976	6231	6457	3094	1629	450	465	4118	6154	6117	5875
MEAN	221	233	201	208	111	52.5	15.0	15.0	137	199	197	196
MAX	442	323	389	733	390	355	15	15	816	585	387	430
MIN	60	148	37	38	17	15	15	15	15	38	55	55
AC-FT	13580	13840	12360	12810	6140	3230	893	922	8170	12210	12130	11650

CAL YR 1977	TOTAL	58280	MEAN	160	MAX	909	MIN	15	AC-FT	115600
WTR YR 1978	TOTAL	54412	MEAN	149	MAX	816	MIN	15	AC-FT	107900

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02285000 NORTH NEW RIVER CANAL NEAR FORT LAUDERDALE, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.42	4.08	4.06	4.26	4.00	3.98	3.91	3.69	4.18	3.95	3.36	4.25
2	1.39	4.16	3.97	4.29	4.00	4.05	3.99	3.69	4.15	3.98	2.76	4.38
3	1.59	4.19	3.90	4.39	4.00	4.34	3.98	3.68	3.94	3.99	1.93	4.46
4	1.82	4.15	3.88	4.46	3.96	3.68	3.92	3.70	3.87	4.00	1.95	4.39
5	1.69	4.14	3.87	4.31	3.94	2.74	3.80	3.83	3.95	4.08	1.91	2.50
6	1.71	4.28	3.95	4.22	3.27	2.97	3.71	3.83	3.95	3.63	1.95	1.76
7	1.64	4.23	4.23	4.19	3.96	3.48	3.70	3.81	3.97	2.93	1.50	1.57
8	1.72	4.03	4.17	4.19	4.22	3.60	3.69	3.70	3.98	2.95	1.06	2.25
9	1.66	3.98	4.17	4.44	4.80	3.66	3.78	3.62	3.92	2.78	1.05	3.84
10	1.66	4.15	4.49	4.30	4.76	3.36	3.81	3.58	3.85	3.37	1.03	3.92
11	1.51	4.11	4.51	3.92	4.64	4.05	3.76	3.54	3.78	3.96	.97	4.35
12	1.85	3.86	4.38	3.54	4.57	4.09	3.68	3.53	3.79	3.99	.76	4.68
13	2.27	3.68	4.22	3.44	4.51	4.21	3.61	3.51	4.05	3.94	.65	4.24
14	2.20	3.67	4.44	4.38	4.51	4.23	3.64	3.48	4.48	3.83	1.58	3.02
15	2.29	3.72	4.41	4.52	4.46	4.24	4.05	3.46	4.55	3.87	3.49	2.88
16	2.34	3.77	4.43	4.08	4.44	4.24	4.28	3.52	4.39	4.03	3.49	2.82
17	2.92	3.81	4.51	3.38	4.43	4.13	4.17	3.56	4.11	4.21	3.49	2.72
18	3.74	3.81	4.45	3.44	4.49	4.01	3.98	3.84	4.09	4.33	3.69	3.55
19	3.71	3.79	3.95	3.37	4.15	3.89	3.93	4.14	4.21	4.35	3.93	4.40
20	3.38	3.77	3.74	3.44	3.22	3.88	3.89	4.25	3.92	4.34	4.00	4.47
21	3.51	3.74	4.12	4.30	3.46	3.88	3.85	4.25	3.53	3.72	3.84	4.50
22	3.93	3.83	4.33	4.54	3.49	3.88	3.78	4.10	3.46	2.94	3.72	3.92
23	4.23	3.90	4.18	4.55	4.18	3.88	3.71	3.77	3.77	2.90	3.93	2.86
24	4.33	4.08	4.30	4.51	4.42	3.83	3.84	3.70	3.99	3.14	4.02	2.72
25	4.26	4.35	4.34	4.38	4.21	3.79	3.94	3.63	3.18	4.03	4.06	2.69
26	4.07	4.40	4.50	4.37	3.90	3.80	3.94	3.63	1.85	4.07	3.99	3.28
27	4.07	4.37	4.36	4.30	3.93	3.84	3.87	3.72	1.76	4.02	3.80	4.15
28	4.08	4.36	4.24	4.25	3.96	3.92	3.79	3.81	1.56	3.95	3.78	4.12
29	4.05	4.33	4.21	4.23	---	3.99	3.75	4.02	2.13	3.94	3.78	4.19
30	4.04	4.31	4.23	4.20	---	3.88	3.73	4.07	3.62	3.87	3.79	4.19
31	4.11	---	4.24	4.14	---	3.87	---	4.18	---	3.40	3.97	---
MEAN	2.81	4.04	4.22	4.14	4.14	3.85	3.85	3.77	3.67	3.76	2.81	3.57
MAX	4.33	4.40	4.51	4.55	4.80	4.34	4.28	4.25	4.55	4.35	4.06	4.68
MIN	1.39	3.67	3.74	3.37	3.22	2.74	3.61	3.46	1.56	2.78	.65	1.57

CAL YR 1977	MEAN 3.33	MAX 4.51	MIN .95
WTR YR 1978	MEAN 3.71	MAX 4.80	MIN .65

SOUTHERN FLORIDA

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, at downstream end of lock chamber and salinity-control structure on State Highway 84, and 6 mi (9.7 km) southwest of Fort Lauderdale.

DRAINAGE.--Indeterminate.

PERIOD OF RECORD.--October 1943 to July 1947 (fragmentary), August 1947 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 (Corps of Engineers bench mark). Aug. 1, 1947, to July 20, 1950, water-stage recorder at site 300 ft (91.4 m) 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 (3.219 m) Oct. 19, 1947; minimum gage height, -1.33 ft (-0.405 m) Dec. 31, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 2.31 ft (0.704 m) Sept. 30; minimum gage height, -0.72 ft (-0.219 m) Jan. 30, 31.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
TIDAL HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.07	1.94	1.53	1.47	1.00	1.50	1.54	1.43	1.65	1.53	1.77	1.80
2	2.02	2.09	1.27	1.53	1.06	1.61	1.36	1.48	1.60	1.46	1.86	1.72
3	2.02	2.12	1.17	1.53	1.17	1.70	1.28	1.56	1.59	1.56	1.95	1.63
4	2.09	2.02	1.23	1.62	1.42	1.71	1.29	1.47	1.53	1.54	1.92	1.69
5	1.97	2.00	1.57	1.61	1.95	1.75	1.48	1.34	1.50	1.46	1.92	1.86
6	1.96	1.97	1.62	1.51	1.94	1.70	1.45	1.49	1.47	1.54	1.73	1.74
7	1.86	1.98	1.71	1.68	1.95	1.82	1.38	1.62	1.45	1.64	1.53	1.60
8	2.03	2.05	1.90	1.68	2.11	1.75	1.55	1.59	1.44	1.45	1.55	1.49
9	2.04	2.03	1.95	1.48	2.15	2.24	1.42	1.61	1.34	1.45	1.56	1.84
10	2.07	2.03	1.85	1.77	2.04	2.03	1.45	1.49	1.37	1.53	1.55	1.62
11	1.87	1.84	1.89	1.66	1.96	1.67	1.43	1.58	1.45	1.59	1.44	1.64
12	1.88	1.98	2.14	1.80	1.87	1.64	1.27	1.50	1.68	1.60	1.31	1.68
13	1.77	2.18	1.98	1.66	1.65	1.60	1.30	1.27	1.51	1.64	1.29	1.92
14	1.72	2.09	1.90	1.51	1.33	1.57	1.16	1.08	1.60	1.71	1.48	2.12
15	1.99	2.12	1.75	1.15	1.52	1.49	1.31	1.15	1.48	1.75	1.65	2.13
16	1.83	1.99	1.80	1.03	1.57	1.38	1.24	1.19	1.56	1.74	1.89	2.19
17	1.84	1.96	1.84	1.07	1.41	1.16	1.35	1.53	1.52	1.89	2.03	2.04
18	1.76	1.90	1.80	.92	1.43	1.04	1.34	1.60	1.89	1.71	2.05	2.03
19	1.69	1.93	1.64	1.16	1.66	1.06	1.38	1.79	2.04	1.82	2.10	1.93
20	1.62	1.92	1.85	1.19	1.75	1.41	1.38	1.88	2.10	1.81	2.13	1.78
21	1.62	1.88	1.83	.82	2.02	1.46	1.87	1.92	2.14	1.87	1.92	1.94
22	1.59	1.73	1.71	1.00	1.65	1.48	1.81	1.70	2.06	1.87	1.90	1.77
23	1.72	1.80	1.63	1.22	1.61	1.78	1.87	1.65	2.00	2.05	1.84	1.85
24	1.85	1.75	1.67	1.57	1.69	1.72	1.87	1.75	2.02	1.92	1.78	1.70
25	1.92	1.84	1.68	1.73	1.71	1.77	1.85	1.69	2.01	1.89	1.78	1.86
26	1.84	1.78	1.73	1.04	1.64	1.82	1.85	1.68	2.05	1.81	1.83	1.97
27	1.81	1.90	1.74	1.16	1.54	1.82	1.72	1.57	2.13	1.69	1.88	1.93
28	1.85	1.71	1.71	1.11	1.52	1.67	1.58	1.67	1.85	1.38	1.84	2.07
29	1.73	1.72	1.64	.97	---	1.53	1.38	1.80	1.73	1.57	1.88	2.07
30	1.66	1.59	1.59	.94	---	1.43	1.34	1.81	1.70	1.74	1.70	2.31
31	1.70	---	1.49	.96	---	1.44	---	1.71	---	1.70	1.76	---
MEAN	1.85	1.93	1.70	1.34	1.65	1.60	1.48	1.57	1.72	1.67	1.77	1.86
MAX	2.09	2.18	2.14	1.80	2.15	2.24	1.87	1.92	2.14	2.05	2.13	2.31
MIN	1.59	1.59	1.17	.82	1.00	1.04	1.16	1.08	1.34	1.38	1.29	1.49

CAL YR 1977 MEAN .38 MAX 2.39 MIN -1.11
WTR YR 1978 MEAN 1.68 MAX 2.31 MIN .82

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

02285001 NORTH NEW RIVER CANAL BELOW CONTROL NEAR FORT LAUDERDALE, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
TIDAL LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.64	.31	-.07	-.02	-.69	-.27	-.32	-.34	-.17	-.28	.30	.11
2	.63	.58	-.20	-.03	-.68	.09	-.33	-.27	-.22	-.27	.39	.07
3	.63	.65	-.27	-.01	-.71	.08	-.48	-.28	-.31	-.41	.43	.02
4	.82	.59	-.21	-.07	-.55	.08	-.55	-.41	-.43	-.25	.41	.00
5	.70	.58	-.01	-.19	-.38	.23	-.54	-.57	-.35	-.13	.30	.47
6	.72	.55	-.09	-.32	.02	-.16	-.53	-.52	-.38	-.02	.19	.30
7	.55	.43	-.18	-.41	-.15	-.21	-.67	-.39	-.39	-.15	.21	.08
8	.65	.30	-.20	-.51	-.21	-.23	-.55	-.31	-.40	-.14	.28	.02
9	.48	.15	-.11	-.47	.22	-.20	-.49	-.36	-.40	-.14	.21	.21
10	.54	.05	-.31	-.45	.14	-.11	-.52	-.24	-.33	-.09	.12	.10
11	.22	-.27	-.19	-.57	.19	-.09	-.47	-.20	-.06	-.12	.06	-.04
12	.03	-.13	-.08	-.23	.11	-.07	-.45	-.28	-.08	-.06	-.12	-.04
13	-.11	.07	.02	-.17	-.08	-.09	-.37	-.36	-.01	.06	-.19	-.20
14	-.15	-.04	-.02	-.42	-.15	.10	-.25	-.35	.24	-.05	-.35	.54
15	-.02	.25	-.14	-.55	.05	-.06	-.14	-.25	-.03	-.01	-.34	.37
16	-.02	.11	-.14	-.42	-.04	-.13	-.02	-.27	-.07	.00	-.14	.41
17	-.13	.19	.33	-.42	-.09	-.26	-.02	-.23	-.28	.09	-.06	.25
18	-.25	.10	.12	-.50	-.03	-.37	-.14	-.13	-.18	-.18	-.03	.09
19	-.19	.13	.09	-.34	.09	-.32	-.30	-.13	.02	-.28	.10	-.06
20	-.15	.23	.16	-.12	.23	-.34	-.26	-.13	.08	-.19	.04	-.04
21	-.13	.18	.25	-.58	.70	-.07	-.15	-.22	-.14	-.04	.08	.21
22	-.07	.02	.07	-.66	-.09	-.19	-.14	-.42	.03	.12	.10	.22
23	-.08	-.04	-.15	-.50	-.18	-.10	-.33	-.50	-.01	.30	.18	.38
24	.08	-.06	-.05	-.37	-.19	-.02	-.39	-.46	.25	.09	.24	.39
25	.11	.03	.01	-.18	-.15	-.25	-.36	-.48	.43	.01	.36	.46
26	-.03	.08	.02	-.56	-.14	-.23	-.31	-.45	.35	.16	.36	.60
27	-.01	.10	-.08	-.63	-.22	-.31	-.33	-.37	.66	.03	.49	.61
28	.10	-.05	-.10	-.63	-.17	-.35	-.34	-.09	.54	-.22	.26	.57
29	-.11	.13	-.16	-.70	---	-.39	-.39	.08	.06	-.10	.26	.56
30	.02	-.08	-.06	-.72	---	-.37	-.28	.08	.10	.33	.18	.60
31	.08	---	-.07	-.72	---	-.31	---	-.06	---	.12	.09	---
MEAN	.18	.17	-.06	-.40	-.11	-.16	-.35	-.29	-.05	-.06	.14	.24
MAX	.82	.65	.33	-.01	.70	.23	-.02	.08	.66	.33	.49	.61
MIN	-.25	-.27	-.31	-.72	-.71	-.39	-.67	-.57	-.43	-.41	-.35	-.20

CAL YR 1977	MEAN	-.05	MAX	2.39	MIN	-1.11
WTR YR 1978	MEAN	-.06	MAX	.82	MIN	-.72

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02285400 SOUTH NEW RIVER CANAL AT S-9, NEAR DAVIE, FL

LOCATION.--Lat 26°03'40", long 80°26'23", in SW¼ sec.27, T.50 S., R.39 E., Broward County, Hydrologic Unit 03090202, at pump station 9, 0.5 mi (0.8 km) west of U.S. Highway 27, and 13 mi (21 km) west of Davie.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Dual water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Prior to Oct. 1, 1959, at datum 0.03 ft (0.009 m) higher.

REMARKS.--Flow regulated by pumpage at S-9 and by pumpage into canal from agricultural lands to the east during and after periods of heavy rainfall.

COOPERATION.--Records furnished by South Florida Water Management District, since July 1970. Prior to July 1970, record computed by U.S. Geological Survey.

AVERAGE DISCHARGE.--21 years, 155 ft³/s (4.39 m³/s), 112,200 acre-ft/yr (138 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,930 ft³/s (54.7 m³/s) Oct. 31, 1969; maximum gage height, 5.86 ft (1.786 m) Aug. 27, 1964; maximum daily reverse flow, 241 ft³/s (6.83 m³/s) Nov. 15, 1960; no flow for many days each year; minimum gage height, -0.45 ft (0.137 m) May 3, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 992 ft³/s (28.1 m³/s) Sept. 5; maximum gage height, 4.82 ft (1.469 m) Sept 4; no flow for many days; minimum gage height, -0.13 ft (0.040 m) July 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	233	.00	316	260	.00	259	.00	302	789	287
2	295	285	276	.00	282	270	.00	.00	270	302	767	.00
3	260	254	.00	307	282	265	.00	258	.00	303	752	.00
4	.00	290	.00	307	.00	324	256	245	.00	301	733	140
5	284	.00	313	306	.00	324	.00	.00	249	301	727	992
6	97	.00	272	300	294	299	256	.00	.00	279	659	639
7	284	340	310	.00	268	288	215	.00	271	262	588	328
8	.00	321	.00	.00	236	269	.00	.00	269	276	554	326
9	.00	291	325	398	284	275	.00	.00	239	.00	486	325
10	247	291	266	285	317	326	178	246	.00	292	255	314
11	.00	.00	.00	.00	336	.00	.00	.00	249	.00	291	322
12	277	.00	382	354	328	.00	.00	.00	277	.00	297	320
13	.00	.00	343	372	292	31	.00	.00	98	.00	582	296
14	277	332	301	236	291	.00	.00	.00	308	.00	713	298
15	.00	.00	244	.00	.00	.00	278	.00	307	.00	362	324
16	.00	331	318	393	295	.00	.00	.00	261	.00	282	325
17	281	345	334	337	291	.00	.00	.00	.00	304	290	333
18	.00	284	449	287	300	.00	.00	414	41	301	291	321
19	290	.00	358	373	460	.00	206	410	595	304	285	318
20	.00	.00	348	303	463	.00	255	322	314	326	289	317
21	261	312	331	317	326	.00	.00	.00	311	323	253	49
22	.00	257	335	316	330	.00	.00	.00	314	323	261	248
23	.00	293	139	336	313	.00	.00	191	335	.00	255	.00
24	292	202	.00	300	315	.00	565	.00	284	326	293	.00
25	.00	379	.00	291	.00	.00	.00	.00	642	.00	294	539
26	293	283	.00	282	.00	.00	.00	242	790	.00	293	479
27	.00	276	320	268	302	.00	.00	.00	832	283	286	180
28	294	331	318	.00	278	.00	.00	.00	614	269	153	671
29	.00	311	305	.00	---	.00	.00	.00	498	.00	.00	588
30	.00	320	300	313	---	.00	.00	272	395	532	.00	.00
31	295	---	.00	.00	---	.00	---	289	---	638	.00	---
TOTAL	4027.00	6328.00	7120.00	6981.00	7199.00	2931.00	2209.00	3148.00	8763.00	6547.00	12080.00	9279.00
MEAN	130	211	230	225	257	94.5	73.6	102	292	211	390	309
MAX	295	379	449	398	463	326	565	414	832	638	789	992
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	7990	12550	14120	13850	14280	5810	4380	6240	17380	12990	23960	18400

CAL YR 1977 TOTAL 81537.00 MEAN 223 MAX 1530 MIN .00 AC-FT 161700
WTR YR 1978 TOTAL 76612.00 MEAN 210 MAX 992 MIN .00 AC-FT 152000

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

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 (5 m) from north bank, 150 ft (46 m) upstream from pump station 13, 300 ft (91 m) west of U.S. Highway 441, and 1.5 mi (2.4 km) east of Davie.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1957 to current year.

GAGE.--Dual water-stage recorder and deflection-meter recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records 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 mi (8 km) upstream and by upstream withdrawals from the canal during the growing season and pumpage into the canal during high water. Discharge is computed from continuous velocity record obtained from recording deflection meter.

COOPERATION.--Gate-opening and pump records furnished by South Florida Water Management District.

AVERAGE DISCHARGE.--21 years, 175 ft³/s (4.96 m³/s), 126,700 acre-ft/yr (156 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,050 ft³/s (29.7 m³/s) Jan. 25, 1963 and Oct. 12, 1964; maximum gage height, 3.93 ft (1.198 m) Oct. 31, 1969; maximum reverse flow, 657 ft³/s (18.6 m³/s) Sept. 12, 1962; no flow for some days in most years; minimum gage height, -0.79 ft (-0.241 m) July 14, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 459 ft³/s (13.0 m³/s) Apr. 1; maximum gage height, 2.30 ft (0.701 m) Dec. 17; no flow for many days; minimum gage height, -0.17 ft (0.052 m) Aug. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	219	51	174	141	41	3.0	459	.00	45	116	225	220
2	222	.50	20	180	29	27	179	37	102	123	239	199
3	160	.00	49	120	20	43	62	.00	203	155	294	233
4	132	33	72	69	46	98	.00	49	169	186	175	238
5	147	.00	52	26	96	67	.00	157	118	243	135	146
6	91	37	123	17	108	78	.00	238	61	272	221	234
7	74	19	104	41	64	42	.00	182	78	250	241	187
8	154	.00	69	65	61	62	.00	140	75	229	173	302
9	153	54	73	146	134	124	.00	.00	21	229	167	394
10	69	18	54	137	130	290	10	.00	19	222	232	319
11	42	25	70	35	104	441	13	.00	18	182	219	233
12	37	.00	66	55	8.0	381	.00	.00	15	181	265	191
13	50	23	56	63	64	412	.00	.00	12	230	258	192
14	22	16	43	106	4.0	400	78	.00	60	238	147	83
15	27	17	53	73	29	305	250	.00	.00	232	107	130
16	20	25	.00	52	37	339	317	.00	29	185	154	125
17	.00	32	165	62	54	319	276	.00	9.2	257	152	122
18	30	.00	151	50	84	238	133	.00	86	272	147	110
19	.00	26	129	72	157	239	16	137	209	313	233	97
20	.00	26	87	215	172	257	42	65	168	271	192	80
21	106	28	144	139	196	229	60	140	129	242	197	158
22	93	20	106	148	334	167	32	125	164	285	180	210
23	30	27	125	114	243	234	22	92	192	251	177	216
24	51	100	157	122	121	175	118	92	149	249	216	225
25	20	68	211	57	297	229	121	60	215	258	186	203
26	18	73	291	77	288	122	221	128	239	245	208	138
27	36	37	181	44	103	230	196	193	263	217	195	92
28	35	88	43	47	90	217	109	237	221	215	165	148
29	.00	138	51	67	---	213	25	286	200	274	135	82
30	87	63	68	39	---	216	31	172	154	301	193	238
31	20	---	170	115	---	257	---	160	---	217	218	---
TOTAL	2145.00	1044.50	3157.00	2694	3114.0	6454.0	2770.00	2690.00	3423.20	7140	6046	5545
MEAN	69.2	34.8	102	86.9	111	208	92.3	86.8	114	230	195	185
MAX	222	138	291	215	334	441	459	286	263	313	294	394
MIN	.00	.00	.00	17	4.0	3.0	.00	.00	.00	116	107	80
AC-FT	4250	2070	6260	5340	6180	12800	5490	5340	6790	14160	11990	11000

CAL YR 1977 TOTAL 39756.80 MEAN 109 MAX 716 MIN .00 AC-FT 78860
WTR YR 1978 TOTAL 46222.70 MEAN 127 MAX 459 MIN .00 AC-FT 91680

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286100 SOUTH NEW RIVER CANAL AT S-13, NEAR DAVIE, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.63	1.69	1.53	1.63	1.63	1.67	1.54	1.64	1.62	1.62	1.70	1.68
2	1.67	1.64	1.63	1.62	1.64	1.64	1.55	1.65	1.57	1.63	1.68	1.67
3	1.64	1.67	1.66	1.57	1.64	1.64	1.60	1.70	1.54	1.60	1.03	1.67
4	1.68	1.66	1.62	1.61	1.59	1.66	1.70	1.63	1.56	1.55	.35	1.63
5	1.65	1.64	1.64	1.61	1.63	1.63	1.71	1.57	1.60	1.60	1.63	1.66
6	1.63	1.65	1.59	1.62	1.60	1.62	1.74	1.56	1.55	1.64	1.62	1.70
7	1.63	1.64	1.61	1.63	1.60	1.65	1.74	1.57	1.62	1.56	1.62	1.63
8	1.61	1.65	1.60	1.63	1.61	1.70	1.71	1.54	1.63	1.59	1.64	1.64
9	1.66	1.71	1.62	1.65	1.64	1.66	1.68	1.60	1.67	1.62	1.64	1.76
10	1.59	1.66	1.59	1.55	1.66	1.62	1.64	1.51	1.67	1.62	1.62	1.70
11	1.64	1.60	1.61	1.65	1.63	1.11	1.51	1.57	1.65	1.62	1.60	1.66
12	1.62	1.68	1.62	1.59	1.62	.99	1.57	1.61	1.66	1.62	1.58	1.68
13	1.60	1.67	1.63	1.60	1.60	1.42	1.59	1.61	1.66	1.64	1.56	1.64
14	1.59	1.63	1.60	1.59	1.59	1.49	1.60	1.61	1.57	1.62	1.61	1.67
15	1.64	1.60	1.73	1.60	1.63	1.40	1.51	1.58	1.67	1.67	1.66	1.61
16	1.64	1.62	1.95	1.61	1.59	1.60	1.52	1.51	1.66	1.68	1.46	1.62
17	1.64	1.60	1.59	1.56	1.49	1.60	1.56	1.50	1.66	1.71	1.67	1.64
18	1.61	1.64	1.55	1.60	1.58	1.56	1.56	1.79	1.73	1.68	1.71	1.61
19	1.63	1.63	1.59	1.59	1.64	1.57	1.64	1.75	1.62	1.68	1.70	1.60
20	1.71	1.63	1.66	1.55	1.59	1.56	1.64	1.54	1.61	1.63	1.70	1.61
21	1.60	1.66	1.61	1.56	1.38	1.53	1.65	1.55	1.64	1.67	1.66	1.62
22	1.61	1.62	1.57	1.58	1.11	1.54	1.66	1.61	1.60	1.70	1.63	1.66
23	1.65	1.63	1.56	1.61	1.39	1.60	1.66	1.58	1.64	1.68	1.67	1.67
24	1.62	1.63	1.62	1.60	1.58	1.59	1.58	1.58	1.67	1.68	1.66	1.65
25	1.65	1.58	1.62	1.59	1.62	1.53	1.61	1.62	1.72	1.68	1.69	1.67
26	1.67	1.61	1.51	1.60	1.58	1.57	1.57	1.63	1.71	1.72	1.64	1.65
27	1.66	1.60	1.55	1.60	1.61	1.57	1.57	1.57	1.53	1.66	1.69	1.67
28	1.67	1.63	1.62	1.61	1.66	1.55	1.58	1.53	1.26	1.60	1.69	1.67
29	1.65	1.57	1.62	1.63	---	1.54	1.65	1.62	1.70	1.61	1.70	1.68
30	1.65	1.53	1.65	1.66	---	1.51	1.62	1.62	1.67	1.61	1.69	1.80
31	1.61	---	1.63	1.62	---	1.54	---	1.61	---	1.61	1.61	---
MEAN	1.64	1.63	1.62	1.60	1.58	1.54	1.62	1.60	1.62	1.64	1.58	1.66
MAX	1.71	1.71	1.95	1.66	1.66	1.70	1.74	1.79	1.73	1.72	1.71	1.80
MIN	1.59	1.53	1.51	1.55	1.11	.99	1.51	1.50	1.26	1.55	.35	1.60

CAL YR 1977 MEAN 1.60 MAX 2.06 MIN .76
WTR YR 1978 MEAN 1.61 MAX 1.95 MIN .35

SOUTHERN FLORIDA

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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 (45.7 m) west of U.S. Highway 441, and 1.5 mi (2.4 km) 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 (1.213 m) Sept. 8, 1965; minimum, -1.97 ft (-0.600 m) Apr. 28, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 2.29 ft (0.698 m) Nov. 13; minimum, -0.92 ft (0.280 m) Jan. 30.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
TIDAL HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.04	1.82	1.48	1.60	.83	1.55	1.54	1.47	1.59	1.44	1.57	1.67
2	1.87	1.96	1.24	1.63	1.00	1.68	1.41	1.32	1.46	1.43	1.66	1.59
3	1.90	1.98	1.17	1.57	1.28	1.78	1.26	1.36	1.50	1.47	1.93	1.61
4	1.97	1.88	1.33	1.55	1.52	1.79	1.22	1.28	1.41	1.44	1.77	1.51
5	1.89	1.88	1.37	1.67	1.88	1.56	1.26	1.24	1.45	1.43	1.53	1.66
6	1.95	1.85	1.48	1.67	1.83	1.45	1.29	1.34	1.44	1.55	1.52	1.55
7	1.81	1.95	1.50	1.74	1.73	1.78	1.31	1.50	1.35	1.46	1.36	1.52
8	1.92	1.95	1.70	1.74	2.12	1.66	1.21	1.50	1.22	1.40	1.38	1.39
9	1.88	1.96	2.06	1.66	2.15	1.97	1.19	1.38	1.19	1.37	1.40	1.70
10	2.00	2.19	1.89	1.59	2.03	1.88	1.18	1.14	1.16	1.40	1.22	1.56
11	1.80	1.90	1.97	1.41	1.88	1.72	1.30	1.43	1.23	1.46	1.29	1.55
12	1.81	2.05	2.22	1.47	1.93	1.77	1.22	1.31	1.41	1.47	1.14	1.50
13	1.86	2.29	2.09	1.70	1.73	1.67	1.23	1.06	1.47	1.50	1.09	1.69
14	1.75	2.17	1.81	1.64	1.44	1.68	1.12	.92	1.58	1.55	1.24	1.82
15	1.96	2.20	1.66	.92	1.29	1.55	1.21	1.01	1.53	1.63	1.43	1.86
16	1.88	2.01	1.86	.98	1.38	1.45	1.22	1.08	1.59	1.61	1.71	1.89
17	1.84	1.93	1.82	1.17	1.14	1.24	1.37	1.37	1.58	1.83	1.78	1.92
18	1.69	1.83	1.74	1.04	1.41	1.13	1.34	1.45	1.94	1.56	1.85	1.85
19	1.59	1.88	1.71	1.30	1.65	1.18	1.30	1.68	2.07	1.69	1.90	1.69
20	1.56	1.99	1.87	1.32	1.64	1.49	1.33	1.75	2.01	1.74	1.90	1.59
21	1.56	1.94	1.63	.92	1.66	1.56	1.81	1.75	1.83	1.83	1.78	1.76
22	1.72	1.61	1.55	1.08	1.40	1.58	1.71	1.56	1.91	1.83	1.66	1.66
23	1.88	1.95	1.79	1.23	1.45	1.86	1.72	1.49	1.93	1.86	1.68	1.61
24	1.87	1.70	1.80	1.52	1.72	1.77	1.70	1.67	1.97	1.76	1.54	1.52
25	1.97	1.68	1.76	1.55	1.68	1.63	1.68	1.55	1.98	1.69	1.57	1.72
26	1.85	1.86	1.60	1.17	1.69	1.73	1.85	1.47	1.97	1.69	1.70	1.75
27	1.77	1.76	1.63	.84	1.60	1.81	1.70	1.45	2.07	1.70	1.70	1.79
28	1.85	1.64	1.45	.93	1.55	1.60	1.69	1.59	1.81	1.24	1.59	1.91
29	1.76	1.72	1.51	.85	---	1.63	1.48	1.79	1.67	1.43	1.70	1.90
30	1.77	1.41	1.65	.63	---	1.47	1.45	1.74	1.65	1.49	1.58	2.07
31	1.69	---	1.60	.82	---	1.31	---	1.57	---	1.47	1.65	---
MEAN	1.83	1.90	1.68	1.32	1.59	1.61	1.41	1.43	1.63	1.56	1.57	1.69
MAX	2.04	2.29	2.22	1.74	2.15	1.97	1.85	1.79	2.07	1.86	1.93	2.07
MIN	1.56	1.41	1.17	.63	.83	1.13	1.12	.92	1.16	1.24	1.09	1.39

CAL YR 1977 MEAN .30 MAX 2.29 MIN -1.28
WTR YR 1978 MEAN 1.60 MAX 2.29 MIN .63

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286101 SOUTH NEW RIVER CANAL BELOW S-13, NEAR DAVIE, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
TIDAL LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.64	.33	-.03	.24	-.79	-.19	-.26	-.39	-.26	-.19	.15	.16
2	.57	.62	-.18	.14	-.76	.01	-.26	-.36	-.34	-.27	.23	.07
3	.62	.61	-.30	.02	-.53	.14	-.55	-.45	-.34	-.34	.35	-.02
4	.68	.49	-.03	-.16	-.40	.16	-.62	-.55	-.51	-.20	.13	.09
5	.65	.44	-.23	-.22	-.22	-.10	-.73	-.69	-.50	-.13	.09	.17
6	.61	.39	-.17	-.18	-.07	-.36	-.69	-.58	-.56	.03	-.11	-.01
7	.52	.38	-.23	-.18	-.25	-.21	-.90	-.44	-.54	-.12	-.09	-.18
8	.49	.21	-.32	-.40	-.32	-.30	-.72	-.47	-.50	-.12	-.06	-.08
9	.41	.05	-.12	-.51	.20	-.28	-.72	-.47	-.48	-.03	-.13	.24
10	.32	.22	-.18	-.66	.17	-.02	-.71	-.39	-.43	-.03	-.13	.09
11	.07	-.17	.06	-.79	.08	.22	-.70	-.38	-.19	.01	-.26	-.07
12	-.11	-.02	.08	-.45	.23	.19	-.65	-.42	-.23	.03	-.44	-.03
13	-.12	.31	.13	-.16	.08	.01	-.63	-.54	-.10	.12	-.49	-.23
14	-.04	.17	-.20	-.61	-.35	.28	-.42	-.52	.09	-.06	-.59	.00
15	.04	.34	-.30	-.73	-.20	.06	-.11	-.37	-.02	.07	-.51	-.14
16	.05	.16	-.08	-.40	-.28	.03	-.06	-.33	-.03	-.07	-.37	-.03
17	-.14	.13	.30	-.38	-.28	-.16	-.06	-.19	-.19	-.13	-.23	-.04
18	-.24	.05	.26	-.39	-.12	-.19	-.24	-.33	-.11	-.25	-.23	-.09
19	-.20	.11	.09	-.42	.16	-.16	-.37	-.25	.08	-.27	-.07	-.21
20	-.16	.17	.28	.02	-.09	-.20	-.44	-.21	.08	-.24	-.09	-.25
21	-.11	.28	.16	-.41	-.09	-.01	-.21	-.27	-.25	.00	-.13	.02
22	.02	.02	-.32	-.65	-.02	-.08	-.30	-.48	-.14	-.01	-.07	.08
23	.08	-.04	.10	-.46	-.30	-.05	-.37	-.54	.11	.07	-.02	.22
24	.09	.01	.13	-.46	-.39	.05	-.55	-.49	.31	.02	.01	.29
25	.17	.06	.20	-.24	.03	-.31	-.40	-.57	.51	-.05	.17	.33
26	.05	.19	-.11	-.72	-.02	-.33	-.38	-.52	.40	.09	.20	.33
27	.07	.24	-.21	-.85	-.04	-.42	-.17	-.35	.73	.10	.27	.40
28	.22	.00	-.25	-.81	-.07	-.24	-.19	-.10	.39	-.33	.13	.38
29	.01	.09	.02	-.80	---	-.33	-.23	.10	.14	-.13	.13	.34
30	.23	-.08	-.08	-.92	---	-.49	-.13	-.07	.16	.04	.23	.44
31	.24	---	.14	-.91	---	-.40	---	-.21	---	-.08	.11	---
MEAN	.18	.19	-.04	-.43	-.17	-.12	-.43	-.38	-.09	-.08	-.06	.08
MAX	.68	.62	.30	.24	.23	.28	-.06	.10	.73	.12	.35	.44
MIN	-.24	-.17	-.32	-.92	-.79	-.49	-.90	-.69	-.56	-.34	-.59	-.25

CAL YR 1977 MEAN -.13 MAX 1.55 MIN -1.28
WTR YR 1978 MEAN -.11 MAX .73 MIN -.92

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286143 INTRACOASTAL WATERWAY AT PORT EVERGLADES, AT HOLLYWOOD, FL

LOCATION.--Lat 26°05'31", long 80°06'42", in NW¼ sec.24, T.50 S., R.42 E., Broward County, Hydrologic Unit 03090202, at sea wall of north dock of U.S. Naval Ordnance Laboratory at Port Everglades, 200 ft (61 m) south of Port Everglades Channel in Hollywood.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1968 to April 1978 (gage heights). Discontinued.

GAGE.--Water-stage recorder. Datum of gage about 0.24 ft (0.073 m) National Geodetic Vertical Datum of 1929 (by water levels).

REMARKS.--Gage records water levels and tidal fluctuations at the inlet to Port Everglades. The stage record published is the maximum and minimum tide event for each calendar day.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 3.90 ft (1.189 m) Oct. 25, 1973; minimum, -1.98 ft (-0.604 m) April 5, 1977.

EXTREMES FOR CURRENT RECORD.--Maximum gage height, 3.19 ft (0.972 m) Nov. 13; minimum, -1.48 ft (-0.451 m) Jan. 10.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
TIDAL HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.62	2.60	1.75	2.08	1.50	2.24						
2	2.47	2.53	1.70	2.08	1.65	2.21						
3	2.55	2.49	1.50	2.12	2.00	2.30						
4	2.51	2.31	1.61	2.28	2.30	2.30						
5	2.42	2.35	1.89	2.26	2.60	2.26						
6	2.30	2.33	2.07	2.40	2.70	2.30						
7	2.28	2.45	2.23	2.60	2.85	2.61						
8	2.42	2.58	2.58	2.61	2.90	2.58						
9	2.54	2.65	2.87	2.51	3.00	2.67						
10	2.67	2.89	2.95	2.66	2.95	2.45						
11	2.45	2.74	3.10	2.50	2.50	2.33						
12	2.69	2.95	3.15	2.55	2.25	2.27						
13	2.61	3.19	3.18	2.60	2.00	2.10						
14	2.64	2.95	2.85	2.65	1.80	1.95						
15	2.85	2.91	2.65	2.00	1.75	1.94						
16	2.74	2.71	2.50	1.50	1.70	1.83						
17	2.68	2.52	2.35	1.45	1.65	1.50						
18	2.37	2.41	2.45	1.60	1.80	1.39						
19	2.25	2.43	2.15	1.55	2.00	1.46						
20	2.17	2.50	2.30	1.50	2.10	1.90						
21	2.21	2.38	2.36	1.65	2.20	1.98						
22	2.18	2.33	2.39	2.00	2.10	2.11						
23	2.42	2.40	2.27	2.15	2.35	2.55						
24	2.53	2.33	2.32	2.30	2.32	2.48						
25	2.71	2.42	2.33	2.35	2.25	2.50						
26	2.66	2.41	2.42	2.30	2.28	2.53						
27	2.57	2.38	2.30	2.00	2.17	2.61						
28	2.64	2.13	2.29	1.40	2.27	---						
29	2.45	2.17	2.21	1.35	---	---						
30	2.31	1.99	2.30	1.45	---	---						
31	2.44	---	2.04	1.35	---	---						
MEAN	2.50	2.51	2.36	2.06	2.21	---						
MAX	2.85	3.19	3.18	2.66	3.00	---						
MIN	2.17	1.99	1.50	1.35	1.50	---						

CAL YR 1977 MEAN .08 MAX 3.19 MIN -1.98

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286143 INTRACOASTAL WATERWAY AT PORT EVERGLADES, AT HOLLYWOOD, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
TIDAL LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-.01	.36	-.32	-.18	-1.07	-.43						
2	.13	.59	-.37	-.23	-1.05	-.42						
3	.32	.62	-.46	-.42	-1.00	-.34						
4	.65	.54	-.43	-.67	-.90	-.45						
5	.65	.33	-.47	-.89	-.80	-.53						
6	.61	.14	-.72	-.90	-.75	-.87						
7	.37	-.16	-.87	-1.00	-.60	-.92						
8	.29	-.47	-.91	-1.41	-.50	-.98						
9	.11	-.63	-1.01	-1.46	-.40	-.99						
10	-.38	-.97	-1.05	-1.48	-.35	-1.01						
11	-.42	-1.29	-.90	-1.25	-.30	-1.02						
12	-.71	-1.11	-.70	-.75	-.35	-.82						
13	-.99	-.76	-.50	-.65	-.25	-.70						
14	-.94	-.89	-.35	-.85	-.20	-.34						
15	-.69	-.45	-.25	-.90	-.40	-.31						
16	-.76	-.44	-.23	-.85	-.45	-.25						
17	-.59	-.26	-.20	-.75	-.40	-.29						
18	-.66	-.30	-.15	-.65	-.38	-.44						
19	-.45	-.16	-.20	-.85	-.30	-.45						
20	-.39	-.17	-.18	-.92	-.40	-.69						
21	-.49	-.52	-.15	-1.05	-.70	-.40						
22	-.46	-.59	-.46	-1.00	-.60	-.44						
23	-.49	-.52	-.49	-.85	-.62	-.42						
24	-.37	-.61	-.44	-.75	-.66	-.63						
25	-.32	-.49	-.37	-.80	-.75	-.95						
26	-.58	-.55	-.32	-.95	-.78	-.90						
27	-.46	-.20	-.46	-1.00	-.74	-.89						
28	-.29	-.55	-.42	-1.10	-.52	---						
29	-.46	-.27	-.39	-1.07	---	---						
30	-.24	-.46	-.16	-1.09	---	---						
31	-.02	---	-.34	-1.10	---	---						
MEAN	-.26	-.34	-.46	-.90	-.58	---						
MAX	.65	.62	-.15	-.18	-.20	---						
MIN	-.99	-1.29	-1.05	-1.48	-1.07	---						
CAL YR 1977	MEAN	-.63	MAX	.65	MIN	-1.98						

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286160 INTRACOASTAL WATERWAY AT HOLLYWOOD, FL

LOCATION.--Lat 26°00'52", long 80°07'09", in NE¼ sec.14, T.51 S., R.42 E., Broward County, Hydrologic Unit 03090202, at municipal boat dock, 1,000 ft (305 m) north of bridge on State Highway 820 in Hollywood.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1950 to July 1954, February 1968 to April 1978 (gage heights). Discontinued. Records of gage heights prior to February 1968 are available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is 0.05 ft (0.015 m) below National Geodetic Vertical Datum of 1929 (Broward County bench mark).

REMARKS.--Gage records water levels and tidal fluctuations in the Intracoastal Waterway. 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 (1.213 m) Oct. 25, 1973; minimum, -1.50 ft (-0.457 m) Apr. 7, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 2.51 ft (0.765 m) Nov. 13, Feb. 9; minimum, -1.18 ft (-0.360 m) Jan. 11.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
TIDAL HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.29	2.20	1.56	1.59	1.07	1.74						
2	2.10	2.34	1.48	1.63	1.21	1.76						
3	2.12	2.31	1.29	1.57	1.48	1.97						
4	2.07	2.22	1.46	1.67	1.80	1.90						
5	1.96	2.13	1.74	1.68	2.02	1.65						
6	1.97	2.15	1.80	1.75	2.18	1.74						
7	1.84	2.21	1.76	1.88	2.22	2.08						
8	2.15	2.25	2.04	1.92	2.48	2.05						
9	2.18	2.31	2.32	1.81	2.51	2.03						
10	2.26	2.30	2.15	1.79	2.18	1.86						
11	2.01	2.08	2.11	1.78	2.19	1.78						
12	2.08	2.28	2.46	1.97	2.07	1.75						
13	1.96	2.51	2.36	2.01	1.95	1.70						
14	1.94	2.26	2.25	1.71	1.65	1.70						
15	2.21	2.48	1.95	1.28	1.55	1.58						
16	2.11	2.34	1.94	1.19	1.70	1.42						
17	2.02	2.16	1.90	1.32	1.46	1.11						
18	1.84	2.00	1.91	1.20	1.67	.98						
19	1.84	2.01	1.77	1.41	1.70	.98						
20	1.79	2.09	1.91	1.24	1.68	1.46						
21	1.74	2.00	1.94	.96	1.75	1.57						
22	1.68	2.00	1.88	1.26	1.58	1.65						
23	2.03	2.07	1.71	1.46	1.64	1.94						
24	2.07	1.86	1.82	1.61	1.83	1.86						
25	2.23	1.99	1.89	1.90	1.78	1.87						
26	2.21	1.94	1.85	1.45	1.79	1.94						
27	2.06	1.96	1.69	1.21	1.71	1.75						
28	2.13	1.81	1.68	1.25	1.77	1.75						
29	1.99	1.75	1.68	1.14	---	---						
30	1.88	1.69	1.85	1.06	---	---						
31	1.95	---	1.63	1.02	---	---						
MEAN	2.02	2.12	1.86	1.51	1.81	---						
MAX	2.29	2.51	2.46	2.01	2.51	---						
MIN	1.68	1.69	1.29	.96	1.07	---						

CAL YR 1977 MEAN .03 MAX 2.51 MIN -1.47

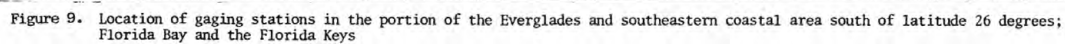
EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286160 INTRACOASTAL WATERWAY AT HOLLYWOOD, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
TIDAL LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.12	-.37	-.52	-1.03	-.54						
2	.07	.43	-.43	-.47	-.93	-.39						
3	.16	.54	-.52	-.50	-.98	-.36						
4	.38	.44	-.46	-.62	-.85	-.59						
5	.33	.29	-.43	-.78	-.73	-.52						
6	.36	.22	-.61	-.84	-.64	-.71						
7	.14	.10	-.63	-.97	-.62	-.62						
8	.23	-.06	-.71	-1.10	-.62	-.66						
9	.02	-.30	-.61	-.99	-.38	-.67						
10	-.04	-.44	-.93	-1.10	-.39	-.72						
11	-.36	-.78	-.85	-1.18	-.29	-.79						
12	-.48	-.72	-.70	-.69	-.25	-.77						
13	-.74	-.48	-.51	-.57	-.29	-.67						
14	-.77	-.55	-.43	-.65	-.43	-.43						
15	-.62	-.16	-.52	-.83	-.21	-.46						
16	-.56	-.22	-.44	-.86	-.41	-.46						
17	-.56	-.16	-.31	-.74	-.36	-.63						
18	-.66	-.21	-.37	-.71	-.29	-.50						
19	-.54	-.27	-.28	-.60	-.28	-.68						
20	-.51	-.17	-.28	-.42	-.35	-.67						
21	-.50	-.17	-.25	-.92	-.40	-.42						
22	-.48	-.38	-.33	-.98	-.61	-.53						
23	-.47	-.40	-.61	-.81	-.68	-.48						
24	-.31	-.47	-.49	-.74	-.63	-.60						
25	-.23	-.38	-.43	-.48	-.59	-.80						
26	-.43	-.41	-.32	-.92	-.63	-.69						
27	-.43	-.32	-.54	-.98	-.58	-.82						
28	-.26	-.46	-.58	-1.01	-.51	-.73						
29	-.42	-.27	-.63	-1.00	---	---						
30	-.35	-.38	-.35	-1.04	---	---						
31	-.18	---	-.50	-1.06	---	---						
MEAN	-.26	-.20	-.50	-.81	-.53	---						
MAX	.38	.54	-.25	-.42	-.21	---						
MIN	-.77	-.78	-.93	-1.18	-1.03	---						

CAL YR 1977 MEAN -.55 MAX .54 MIN -1.47



SOUTHERN FLORIDA

EVERGLADES AND SOUTHERN COASTAL AREA

02286170 INTRACOASTAL WATERWAY AT GOLDEN BEACH, FL

LOCATION.--Lat 25°57'36", long 80°07'18", in NE¼ sec.2, T.52 S., R.42 E., Dade County, Hydrologic Unit 03090202, on south side of bridge on Verona Avenue, 1.0 mi (1.6 km) south of the Broward County line at Golden Beach.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1969 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Dade County bench mark).

REMARKS.--Gage records water levels and tidal fluctuations in the Intracoastal Waterway at Golden Beach, Fla. The stage record published is the maximum and minimum tide event for each calendar day.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 3.37 ft (1.027 m) Oct. 25, 1973; minimum, -1.56 ft (-0.475 m) Jan. 9, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 2.80 ft (0.853 m) Nov. 12; minimum, -1.25 ft (-0.381 m) Jan. 11.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
TIDAL HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.27	2.21	1.60	1.80	1.06	1.75	1.59	1.79	1.81	1.77	1.63	1.87
2	2.08	2.17	1.48	1.90	1.19	1.75	1.48	1.77	1.78	1.71	1.63	1.90
3	2.06	2.16	1.27	2.00	1.47	1.97	1.43	1.82	1.75	1.73	1.84	1.76
4	2.03	2.15	1.48	1.85	1.72	1.91	1.40	1.84	1.67	1.56	1.83	1.77
5	1.91	2.17	1.80	2.00	1.98	1.63	1.66	1.57	1.70	1.49	1.64	1.75
6	1.96	2.25	1.85	2.15	2.17	1.90	1.66	1.55	1.54	1.49	1.39	1.83
7	1.88	2.30	1.76	2.25	2.22	2.19	1.56	1.66	1.29	1.29	1.59	1.65
8	2.13	2.40	2.06	2.00	2.54	2.10	1.75	1.89	1.59	1.47	1.57	1.49
9	2.19	2.55	2.35	1.77	2.46	2.10	1.71	1.61	1.48	1.57	1.45	1.72
10	2.26	2.35	2.12	1.75	2.18	1.91	1.58	1.65	1.59	1.63	1.43	1.81
11	2.06	2.55	2.14	1.86	2.21	1.83	1.46	1.64	1.55	1.66	1.41	1.72
12	2.14	2.80	2.52	1.97	2.02	1.83	1.36	1.49	1.63	1.60	1.30	1.83
13	1.95	2.65	2.38	2.01	1.98	1.76	1.43	1.31	1.66	1.70	1.44	1.97
14	1.96	2.50	2.30	1.66	1.57	1.78	1.32	1.23	1.74	1.76	1.70	2.10
15	2.24	2.35	2.02	1.26	1.47	1.66	1.29	1.30	1.71	1.86	1.83	2.20
16	2.16	2.25	2.02	1.09	1.65	1.45	1.19	1.42	1.80	1.88	2.05	2.42
17	2.05	2.10	1.96	1.19	1.43	1.09	1.29	1.81	1.78	1.91	2.23	2.46
18	1.87	2.20	1.88	1.09	1.61	.98	1.41	1.63	2.32	1.85	2.26	2.29
19	1.86	2.30	1.80	1.35	1.66	1.00	1.58	1.84	2.38	1.98	2.29	2.19
20	1.78	2.10	1.93	1.12	1.62	1.55	1.80	1.97	2.38	2.16	2.09	2.06
21	1.72	1.90	2.05	.82	1.70	1.66	2.13	2.12	2.38	2.06	2.12	2.08
22	1.71	2.00	1.90	1.14	1.50	1.77	1.94	2.03	2.18	2.14	2.13	1.89
23	2.05	2.10	1.95	1.38	1.66	2.01	2.16	1.83	2.36	2.07	1.92	1.82
24	2.10	2.20	2.00	1.56	1.87	1.99	2.07	2.13	2.24	1.97	1.77	1.68
25	2.25	2.30	2.05	1.81	1.81	1.98	2.23	1.94	2.17	1.85	1.72	1.88
26	2.21	2.10	2.00	1.13	1.80	2.01	1.92	1.89	2.16	1.91	1.81	1.90
27	2.05	1.95	1.95	1.12	1.76	1.77	1.85	1.69	1.95	1.85	1.77	1.97
28	2.12	1.80	1.95	1.12	1.82	1.59	1.71	1.81	1.85	1.53	1.74	2.22
29	2.03	1.63	1.90	1.07	---	1.76	1.67	1.92	1.77	1.67	1.98	2.30
30	1.88	1.79	1.75	1.00	---	1.59	1.75	1.93	1.86	1.50	1.86	2.56
31	2.01	---	1.75	.98	---	1.53	---	1.81	---	1.59	1.83	---
MEAN	2.03	2.21	1.93	1.52	1.79	1.74	1.65	1.74	1.87	1.75	1.78	1.97
MAX	2.27	2.80	2.52	2.52	2.54	2.19	2.23	2.13	2.38	2.16	2.29	2.56
MIN	1.71	1.63	1.27	.82	1.06	.98	1.19	1.23	1.29	1.29	1.30	1.49

CAL YR 1977 MEAN .04 MAX 2.80 MIN -1.55
WTR YR 1978 MEAN 1.83 MAX 2.80 MIN .82

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHERN COASTAL AREA

02286170 INTRACOASTAL WATERWAY AT GOLDEN BEACH, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
TIDAL LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-.04	.05	-.34	-.25	-1.09	-.62	-.76	-.45	-.63	-.51	-.45	-.49
2	.01	.43	-.44	-.35	-1.04	-.43	-.87	-.61	-.58	-.57	-.51	-.47
3	.08	.40	-.54	-.25	-.53	-.40	-.88	-.62	-.73	-.61	-.42	-.49
4	.27	.35	-.43	-.80	-.93	-.22	-1.02	-.54	-.70	-.60	-.42	-.55
5	.30	.30	-.43	-.55	-.81	-.67	-.98	-1.12	-.73	-.76	-.57	-.53
6	.32	.25	-.67	-.70	-.76	-.81	-.99	-1.01	-.76	-.68	-.59	-.47
7	.08	.15	-.35	-.85	-.72	-.63	-1.17	-.92	-.82	-.72	-.57	-.60
8	.14	.30	-.71	-.95	-.70	-.70	-.98	-.65	-.71	-.64	-.57	-.63
9	-.06	-.05	-.63	-1.05	-.49	-.66	-.91	-.66	-.58	-.49	-.64	-.54
10	-.08	-.45	-.96	-1.20	-.49	-.72	-.87	-.60	-.52	-.41	-.73	-.55
11	-.41	-.90	-.91	-1.25	-.38	-.73	-.78	-.67	-.36	-.39	-.67	-.48
12	-.55	-.60	-.77	-.77	-.34	-.76	-.75	-.63	-.34	-.40	-.87	-.62
13	-.79	-.70	-.53	-.65	-.36	-.65	-.58	-.61	-.28	-.32	-.82	-.73
14	-.83	-.35	-.46	-.75	-.52	-.41	-.49	-.53	-.30	-.48	-.83	-.58
15	-.73	-.30	-.53	-.95	-.28	-.44	-.54	-.43	-.28	-.45	-.84	-.60
16	-.61	-.28	-.50	-.85	-.48	-.49	-.40	-.32	-.41	-.62	-.79	-.52
17	-.64	-.24	-.21	-.84	-.39	-.65	-.39	-.24	-.71	-.69	-.68	-.41
18	-.68	-.15	-.30	-.54	.02	-.68	-.39	-.56	-.59	-.99	-.70	-.47
19	-.55	-.05	-.10	-.76	-.38	-.55	-.42	-.50	-.42	-.98	-.56	-.48
20	-.57	.05	.15	-.57	-.42	-.67	-.58	-.64	-.57	-.84	-.68	-.59
21	-.51	-.25	-.15	-1.07	-.48	-.40	-.55	-.70	-.65	-.82	-.57	-.29
22	-.55	-.40	-.35	-1.12	-.73	-.56	-.78	-.94	-.59	-.78	-.55	-.31
23	-.46	-.35	-.55	-.94	-.77	-.51	-.79	-.91	-.59	-.74	-.49	-.17
24	-.37	-.35	-.45	-.87	-.70	-.59	-.90	-.93	-.49	-.63	-.28	-.19
25	-.30	-.33	-.40	-.61	-.67	-.76	-.76	-1.02	-.44	-.61	-.30	-.03
26	-.48	-.25	-.50	-1.01	-.71	-.69	-.77	-.97	-.30	-.44	-.16	.20
27	-.49	-.35	-.45	-1.11	-.60	-.81	-.87	-.74	-.41	-.35	-.07	.10
28	-.35	-.25	-.40	-1.10	-.57	-.92	-.77	-.57	-.41	-.58	-.23	.16
29	-.50	-.18	-.25	-1.05	---	-.86	-.65	-.41	-.44	-.44	-.11	.21
30	-.44	-.34	-.30	-1.09	---	-.90	-.55	-.39	-.35	-.58	-.25	.16
31	-.26	---	-.35	-1.12	---	-.75	---	-.46	---	-.52	-.41	---
MEAN	-.32	-.16	-.45	-.84	-.58	-.63	-.74	-.66	-.52	-.60	-.53	-.37
MAX	.32	.43	.15	-.25	.02	-.22	-.39	-.24	-.28	-.32	-.07	.21
MIN	-.83	-.90	-.96	-1.25	-1.09	-.92	-1.17	-1.12	-.82	-.99	-.87	-.73

CAL YR 1977 MEAN -.56 MAX .43 MIN -1.55
WTR YR 1978 MEAN -.53 MAX .43 MIN -1.25

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286200 SNAKE CREEK CANAL AT N.W. 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 N. W. 67th Avenue, 6.0 mi (9.6 km) north of Hialeah, Dade County, 10.9 mi (17.5 km) upstream from salinity-control structure 29, and 11 mi (17.7 km) 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 Florida 1974: 1969.

GAGE.--Water-stage and deflection-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 (0.085 m) lower. Nov. 1, 1959 to Mar. 15, 1962, water-stage recorder 10 ft (3 m) downstream at datum 0.28 ft (0.085 m) lower.

REMARKS.--Records fair. 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 deflection meter.

AVERAGE DISCHARGE.--16 years (1962-1978) 297 ft³/s (8.41 m³/s), 215,000 acre-ft/yr (265 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,550 ft³/s (43.9 m³/s) Mar. 10, 1969; maximum gage height, 4.53 ft (1.381 m) Oct. 31, 1969; maximum reverse flow, 537 ft³/s (15.2 m³/s) Sept. 8, 1965; minimum gage height, 0.58 ft (0.177 m) June 22, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 585 ft³/s (16.6 m³/s) June 21; maximum gage height, 2.87 ft (0.875 m) Aug. 6; minimum daily discharge, 12 ft³/s (0.340 m³/s) Jan. 25; minimum gage height, 1.52 ft (0.463 m) Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	380	113	258	67	159	153	199	84	45	411	336	102
2	404	101	92	150	134	207	88	103	188	439	365	224
3	390	76	96	157	109	261	79	93	84	387	408	193
4	326	70	91	221	97	316	83	89	186	359	280	278
5	304	190	96	66	116	212	84	70	90	368	349	550
6	298	152	313	64	207	217	77	88	55	345	530	530
7	257	175	392	58	180	72	80	66	48	377	525	489
8	133	79	235	67	107	239	88	86	45	357	506	446
9	142	78	203	325	290	383	85	73	47	316	465	424
10	162	96	400	136	280	551	82	72	45	246	382	383
11	171	97	160	157	209	367	80	112	34	178	380	357
12	268	98	85	104	241	284	87	65	44	162	354	242
13	132	80	235	226	100	179	94	83	154	152	351	181
14	124	66	83	219	162	191	100	92	391	152	324	307
15	120	52	260	191	208	298	105	80	323	255	189	342
16	124	74	208	166	198	165	103	79	263	202	270	277
17	116	84	381	183	112	248	100	60	128	264	224	176
18	101	72	350	181	90	263	95	147	101	349	166	142
19	109	60	285	95	415	245	98	435	456	286	209	135
20	105	56	259	255	532	149	102	299	542	210	188	106
21	94	36	246	176	433	76	105	276	585	181	300	100
22	109	19	206	162	474	79	92	280	518	280	136	150
23	345	215	183	150	264	107	84	247	492	300	437	352
24	193	460	55	81	199	106	76	110	382	293	477	215
25	156	431	54	12	207	100	68	112	420	115	432	274
26	168	371	204	322	301	100	62	287	574	148	394	454
27	309	246	87	274	250	172	64	145	560	92	349	378
28	141	75	72	208	209	128	81	254	563	92	277	459
29	121	198	62	204	---	117	92	254	493	268	162	342
30	129	164	67	196	---	96	88	239	427	208	150	338
31	122	---	116	186	---	165	---	219	---	316	241	---
TOTAL	6053	4084	5834	5059	6283	6246	2721	4699	8283	8108	10156	8946
MEAN	195	136	188	163	224	201	90.7	152	276	262	328	298
MAX	404	460	400	325	532	551	199	435	585	439	530	550
MIN	94	19	54	12	90	72	62	60	34	92	136	100
AC-FT	12010	8100	11570	10030	12460	12390	5400	9320	16430	16080	20140	17740

CAL YR 1977 TOTAL 96327 MEAN 264 MAX 806 MIN 19 AC-FT 191100
WTR YR 1978 TOTAL 76472 MEAN 210 MAX 585 MIN 12 AC-FT 151700

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02286200 SNAKE CREEK CANAL AT N.W. 67TH AVENUE, NEAR HIALEAH, FL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.20	2.23	1.88	2.29	1.86	2.23	2.13	2.25	2.25	2.40	2.33	2.28
2	2.17	2.24	2.06	2.27	1.95	2.29	2.26	2.30	2.14	2.41	2.47	2.18
3	2.08	2.23	2.20	2.12	2.07	2.12	2.23	2.20	2.11	2.36	2.55	2.25
4	2.04	2.26	2.27	2.16	2.12	2.20	2.19	2.10	2.11	2.61	2.44	2.39
5	1.99	2.25	2.30	2.23	2.25	2.28	2.17	2.18	2.04	2.47	2.50	2.68
6	1.95	2.27	2.18	2.31	2.19	2.13	2.17	2.17	2.21	2.37	2.78	2.39
7	1.96	2.06	1.91	2.35	2.20	2.34	2.12	2.14	2.29	2.36	2.75	2.19
8	2.16	2.23	2.03	2.37	2.29	2.24	2.10	2.08	2.29	2.26	2.65	1.99
9	2.21	2.27	2.08	2.22	2.28	2.39	2.10	2.07	2.26	2.26	2.48	1.85
10	2.25	2.29	2.19	2.30	2.21	2.35	2.09	2.05	2.20	2.23	2.42	1.74
11	2.19	2.31	2.27	2.23	2.27	2.36	2.08	2.08	2.15	2.23	2.31	1.68
12	1.97	2.29	2.40	2.29	2.11	2.35	1.80	2.03	2.13	2.31	2.27	2.02
13	2.10	2.27	2.18	2.29	2.31	2.34	1.87	2.02	2.25	2.28	2.21	2.17
14	2.14	2.29	2.32	2.24	2.27	2.33	2.21	2.01	2.29	2.32	2.16	2.27
15	2.15	2.29	2.15	2.03	2.15	2.23	1.92	1.94	2.17	2.24	2.35	2.22
16	2.15	2.30	2.25	1.88	2.03	2.14	1.81	1.91	2.02	2.25	2.23	2.27
17	2.15	2.31	2.25	1.79	2.11	2.17	1.77	1.86	2.05	2.25	2.26	2.30
18	2.16	2.31	2.29	1.71	2.25	1.84	1.60	2.24	2.20	2.34	2.24	2.32
19	2.16	2.30	2.17	1.94	2.42	1.78	1.85	2.51	2.35	2.30	2.25	2.23
20	2.16	2.29	2.08	2.27	2.31	1.85	1.84	2.39	2.46	2.30	2.24	2.31
21	2.17	2.29	2.02	2.18	2.29	2.07	1.99	2.32	2.43	2.31	2.20	2.31
22	2.24	2.37	1.99	2.06	2.27	2.14	2.05	2.28	2.46	2.30	2.29	2.34
23	2.16	2.25	1.98	1.97	2.34	2.18	2.07	2.17	2.41	2.32	2.34	2.34
24	2.04	2.28	2.20	1.99	2.39	2.21	2.43	2.21	2.36	2.22	2.61	2.24
25	2.23	2.36	2.28	2.28	2.46	2.20	2.21	2.29	2.38	2.31	2.33	2.41
26	2.30	2.22	2.08	1.96	2.16	2.17	2.35	2.21	2.50	2.25	2.11	2.38
27	2.14	2.15	2.26	1.80	2.24	2.09	2.25	2.18	2.64	2.31	1.98	2.39
28	2.06	2.34	2.34	1.90	2.08	2.03	2.31	2.23	2.57	2.34	1.98	2.41
29	2.17	2.13	2.36	1.88	---	2.29	2.32	2.22	2.45	2.20	2.26	2.38
30	2.20	2.21	2.38	1.87	---	2.32	2.27	2.21	2.40	2.32	2.29	2.40
31	2.23	---	2.27	1.83	---	2.32	---	2.15	---	2.16	2.18	---
MEAN	2.14	2.26	2.18	2.10	2.21	2.19	2.09	2.16	2.29	2.31	2.34	2.24
MAX	2.30	2.37	2.40	2.37	2.46	2.39	2.43	2.51	2.64	2.61	2.78	2.68
MIN	1.95	2.06	1.88	1.71	1.86	1.78	1.60					

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286300 SNAKE CREEK CANAL AT S-29, AT NORTH MIAMI BEACH, FL

LOCATION.--Lat 25°55'41", long 80°09'22", in SE¼ sec.9, T.52 S., R.42 E., Dade County, Hydrologic Unit 03090202, on downstream side of bridge on West Dixie Highway in North Miami Beach, 25 ft (8 m) from right bank, 0.3 mi (0.5 km) upstream from salinity-control structure 29, and 0.4 mi (0.6 km) upstream from mouth.

DRAINAGE AREA.--Indeterminate.

RECORDS AVAILABLE.--January 1959 to current year.

GAGE.--Water-stage and deflection-meter recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Dade County bench mark).

REMARKS.--Records fair. Flow is affected by tide and is occasionally reversed. Flow is regulated by the operation of salinity-control structure 29 and by some upstream pumpage for irrigation. Discharge computed from continuous velocity record obtained from recording deflection meter, and head-discharge relations.

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

AVERAGE DISCHARGE.--19 years, 384 ft³/s (10.9 m³/s), 278,000 acre-ft/yr (343 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,100 ft³/s (116 m³/s) Sept. 19, 1964; maximum gage height, 3.88 ft (1.183 m) Sept. 8, 1965; no flow for some days for each year; minimum gage height, -1.00 ft (-0.305 m) Feb. 4, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,400 ft³/s (39.6 m³/s) Aug. 12; maximum gage height, 2.64 ft (0.805 m) Feb. 25; no flow for many days; minimum gage height, 0.11 ft (0.034 m) Sept. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	961	.00	738	.00	151	183	149	.00	.00	511	542	27
2	1280	.00	.00	556	19	408	.00	.00	549	762	778	597
3	584	.00	.00	76	31	473	.00	252	.00	806	907	509
4	543	.00	.00	554	.00	419	.00	.00	373	1210	611	483
5	626	342	.00	.00	377	454	.00	.00	.00	975	705	1230
6	593	523	707	.00	232	265	5.7	.00	.00	998	1130	1210
7	279	200	813	.00	.00	.00	.00	.00	.00	847	1340	1070
8	.00	.00	465	65	178	498	.00	.00	.00	804	1280	1100
9	.00	.00	232	557	749	494	.00	.00	.00	713	1200	855
10	61	.00	672	170	227	1090	.00	.00	.00	598	839	817
11	248	.00	.00	200	427	688	.00	.00	.00	53	1270	656
12	246	.00	21	.00	.00	471	470	.00	.00	222	1400	.00
13	.00	.00	538	729	200	388	.00	.00	100	175	1300	.00
14	.00	.00	.00	919	492	204	124	.00	475	307	1080	9.2
15	.00	.00	514	951	431	778	1010	.00	413	262	229	341
16	.00	.00	450	866	73	58	799	.00	432	267	418	302
17	.00	.00	772	799	.00	626	752	.00	.00	450	315	130
18	.00	.00	786	785	417	559	180	580	.00	633	.00	161
19	.00	.00	768	.00	941	537	356	1090	640	544	472	143
20	.00	.00	736	1200	684	141	290	951	718	430	.00	.00
21	.00	.00	715	966	839	.00	.00	825	908	194	341	.00
22	.00	.00	585	908	761	.00	.00	594	666	542	.00	177
23	770	617	307	870	366	.00	.00	545	826	614	859	334
24	276	970	.00	392	133	.00	554	1.6	639	630	827	.00
25	.00	974	.00	6.1	431	.00	489	306	542	109	769	339
26	.00	1020	486	1110	541	.00	298	652	802	145	676	564
27	663	436	.00	575	607	360	281	67	1070	.00	648	548
28	.00	204	.00	429	194	.00	.00	753	820	.00	380	645
29	.00	531	.00	419	---	.00	.00	595	780	491	.00	346
30	.00	711	.00	392	---	.00	.00	628	716	274	165	473
31	.00	---	205	426	---	338	---	543	---	516	650	---
TOTAL	7130.00	6528.00	10510.00	14920.10	9501.00	9432.00	5757.70	8382.60	11469.00	15082.00	21131.00	13066.20
MEAN	230	218	339	481	339	304	192	270	382	487	682	436
MAX	1280	1020	813	1200	941	1090	1010	1090	1070	1210	1400	1230
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	14140	12950	20850	29590	18850	18710	11420	16630	22750	29920	41910	25920

CAL YR 1977 TOTAL 138034.60 MEAN 378 MAX 1770 MIN .00 AC-FT 273800
WTR YR 1978 TOTAL 132909.60 MEAN 364 MAX 1400 MIN .00 AC-FT 263600

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286300 SNAKE CREEK CANAL AT S-29, AT NORTH MIAMI BEACH, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.98	2.21	1.57	2.29	1.79	2.25	1.96	2.27	2.27	1.95	1.95	2.27
2	1.86	2.21	2.06	2.09	1.91	2.09	2.22	2.28	1.90	1.85	1.96	1.93
3	1.90	2.18	2.24	2.07	2.06	1.92	2.23	2.07	2.15	1.85	1.92	2.03
4	1.85	2.20	2.29	1.89	2.13	2.15	2.20	2.18	1.98	1.67	2.04	2.06
5	1.79	2.06	2.32	2.16	2.06	2.18	2.20	2.30	2.09	1.76	1.91	1.53
6	1.77	2.10	1.95	2.27	2.14	2.01	2.17	2.20	2.22	1.71	1.80	1.15
7	1.84	1.86	1.63	2.32	2.24	2.28	2.14	2.16	2.26	1.69	1.94	.96
8	2.12	2.15	1.90	2.32	2.20	1.95	2.14	2.08	2.29	1.83	1.88	.92
9	2.22	2.19	1.99	1.93	1.97	2.08	2.11	2.07	2.30	1.86	1.72	.94
10	2.22	2.23	1.92	2.24	2.21	1.71	2.05	2.08	2.24	1.90	1.88	1.00
11	2.11	2.25	2.22	2.19	1.95	2.03	2.04	2.09	2.19	2.11	1.86	1.16
12	1.82	2.23	2.32	2.29	2.29	2.11	1.79	2.03	2.21	2.21	1.84	1.98
13	2.11	2.20	1.89	2.00	2.24	2.16	1.88	2.06	2.27	2.14	1.80	2.19
14	2.14	2.19	2.29	1.87	2.04	2.21	2.00	2.08	2.04	2.09	1.80	2.26
15	2.13	2.19	1.97	1.72	1.97	1.91	1.64	2.03	1.93	2.09	2.25	1.98
16	2.17	2.26	2.01	1.56	2.06	2.09	1.67	1.91	1.87	2.19	1.97	2.13
17	2.18	2.30	2.00	1.52	2.22	1.79	1.57	1.87	2.00	2.03	2.03	2.22
18	2.16	2.29	2.06	1.45	2.19	1.68	1.83	1.92	2.07	1.94	2.20	2.26
19	2.18	2.28	1.94	1.87	2.00	1.58	1.87	1.86	1.92	2.06	2.09	2.20
20	2.17	2.26	1.88	1.76	2.01	1.74	1.97	1.80	2.03	2.17	2.20	2.27
21	2.15	2.24	1.85	1.84	1.88	2.03	2.03	1.83	1.90	2.21	1.93	2.30
22	2.20	2.29	1.82	1.78	1.97	2.08	2.03	2.05	1.94	1.99	2.30	2.28
23	1.89	1.93	1.83	1.69	2.33	2.13	1.93	1.97	1.79	2.00	1.80	1.98
24	1.90	1.81	2.15	1.82	2.42	2.17	2.11	2.19	1.92	1.88	1.57	2.15
25	2.22	1.93	2.27	2.25	2.29	2.15	2.11	2.19	1.99	2.32	1.17	2.17
26	2.30	1.80	1.91	1.56	2.00	2.15	2.25	1.99	1.84	2.13	1.39	1.93
27	1.90	1.88	2.26	1.66	2.04	2.01	2.10	2.12	1.73	2.35	1.39	2.07
28	2.06	2.22	2.32	1.82	2.09	1.96	2.26	1.98	1.73	2.36	1.70	1.92
29	2.17	1.86	2.35	1.81	---	2.26	2.22	1.97	1.89	1.94	2.21	2.10
30	2.19	1.92	2.35	1.78	---	2.31	2.19	1.98	1.95	2.20	2.22	2.12
31	2.23	---	2.17	1.76	---	2.19	---	1.76	---	1.89	1.94	---
MEAN	2.06	2.12	2.06	1.92	2.10	2.04	2.03	2.04	2.03	2.01	1.89	1.88
MAX	2.30	2.30	2.35	2.32	2.42	2.31	2.26	2.30	2.30	2.36	2.30	2.30
MIN	1.77	1.80	1.57	1.45	1.79	1.58	1.57	1.76	1.73	1.67	1.17	.92

CAL YR 1977	MEAN 2.02	MAX 2.78	MIN .86
WTR YR 1978	MEAN 2.02	MAX 2.42	MIN .92

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286320 BISCAYNE CANAL AT RED ROAD, NEAR OPA-LOCKA, FL

LOCATION.--Lat 25°54'47", long 80°17'37", in NE¼ sec.24, T.52 S., R.40 E., Dade County, Hydrologic Unit 03090202, 120 ft (37 m) upstream from bridge on Red Road, 250 ft (76 m) west of Opa-Locka U.S. Coast Guard Air Station, and 2.5 mi (4.0 km) west of Opa-Locka.

DRAINAGE.--Indeterminate.

PERIOD OF RECORD.--February 1941 to May 1945 (about twice monthly), March 1946 to June 1948 (monthly), and March 1951 to current year gage heights only. Records of gage heights prior to October 1962 are available in files of Geological Survey.

GAUGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Dade County bench mark). Prior to Feb. 12, 1942, nonrecording gage at site 170 ft (52 m) downstream at datum 1.14 ft (0.347 m) lower and Feb. 12, 1942, to June 16, 1948, at datum 1.34 ft (0.408 m) higher. March 28, 1951, to July 12, 1960, water-stage recorder at site 170 ft (52 m) downstream at present datum.

REMARKS.--Water level at this station affected by inflow from several lateral canals, by regulation at salinity-control structure 28, 9 mi (14 km) downstream and at times by tide.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.12 ft (2.475 m) at present datum Oct. 16, 1947; minimum, 0.57 ft (0.174 m) Feb. 17, 22, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 2.89 ft (0.881 m) May 18; minimum, 1.81 ft (0.552 m) Mar. 18.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.23	2.08	2.18	2.06	2.01	2.13	2.15	2.39	2.17	2.31	2.22	2.40
2	2.24	2.11	2.14	2.08	2.05	2.11	2.15	2.38	2.14	2.29	2.28	2.49
3	2.20	2.11	2.12	2.23	2.05	2.14	2.23	2.38	2.09	2.28	2.27	2.57
4	2.17	2.14	2.09	2.13	2.04	2.17	2.28	2.40	2.04	2.32	2.36	2.48
5	2.16	2.14	2.08	2.09	2.13	2.20	2.25	2.39	2.05	2.24	2.35	2.39
6	2.13	2.15	2.10	2.05	2.12	2.19	2.23	2.38	2.11	2.20	2.42	2.37
7	2.11	2.13	2.10	2.12	2.10	2.18	2.21	2.38	2.09	2.22	2.38	2.36
8	2.13	2.12	2.17	2.12	2.10	2.18	2.25	2.39	2.07	2.17	2.31	2.28
9	2.12	2.11	2.15	2.15	2.17	2.19	2.28	2.36	2.03	2.12	2.25	2.05
10	2.12	2.09	2.15	2.15	2.16	2.19	2.30	2.36	2.01	2.20	2.18	2.14
11	2.12	2.06	2.15	2.10	2.15	2.17	2.29	2.35	2.03	2.24	2.17	2.12
12	2.10	2.03	2.15	2.10	2.14	2.15	2.29	2.39	2.07	2.22	2.18	2.10
13	2.07	2.05	2.13	2.12	2.14	2.13	2.27	2.41	2.10	2.21	2.29	2.09
14	2.07	2.06	2.13	2.14	2.13	2.11	2.29	2.40	2.15	2.21	2.29	2.10
15	2.08	2.06	2.18	2.15	2.15	2.12	2.37	2.33	2.13	2.22	2.30	2.18
16	2.09	2.07	2.21	2.12	2.08	2.09	2.37	2.35	2.13	2.21	2.29	2.15
17	2.08	2.05	2.18	2.10	2.08	1.98	2.34	2.33	2.12	2.21	2.27	2.17
18	2.05	2.05	2.15	2.12	2.14	1.84	2.31	2.59	2.19	2.24	2.26	2.13
19	2.06	2.07	2.12	2.19	2.22	1.98	2.31	2.77	2.29	2.18	2.30	2.12
20	2.05	2.06	2.07	2.25	2.20	2.11	2.29	2.61	2.29	2.23	2.31	2.15
21	2.09	2.05	2.05	2.20	2.19	2.11	2.31	2.63	2.26	2.23	2.32	2.11
22	2.12	2.08	2.04	2.15	2.18	2.10	2.32	2.60	2.27	2.25	2.31	2.01
23	2.15	2.10	2.05	2.10	2.17	2.12	2.32	2.58	2.31	2.26	2.34	2.00
24	2.14	2.28	2.06	2.05	2.11	2.14	2.42	2.60	2.30	2.24	2.45	2.05
25	2.11	2.31	2.06	2.10	2.19	2.15	2.45	2.53	2.27	2.22	2.42	2.12
26	2.10	2.24	2.05	2.05	2.18	2.14	2.44	2.51	2.26	2.19	2.41	2.19
27	2.10	2.20	2.05	2.03	2.17	2.10	2.43	2.56	2.26	2.20	2.38	2.19
28	2.09	2.16	2.07	2.01	2.14	2.11	2.39	2.58	2.27	2.21	2.39	2.18
29	2.09	2.16	2.06	2.00	---	2.14	2.36	2.59	2.30	2.21	2.39	2.07
30	2.09	2.22	2.04	2.01	---	2.12	2.37	2.60	2.29	2.21	2.39	2.08
31	2.09	---	2.06	2.01	---	2.12	---	2.16	---	2.19	2.44	---
MEAN	2.11	2.12	2.11	2.11	2.13	2.12	2.31	2.46	2.17	2.22	2.32	2.19
MAX	2.24	2.31	2.21	2.25	2.22	2.20	2.45	2.77	2.31	2.32	2.45	2.57
MIN	2.05	2.03	2.04	2.00	2.01	1.84	2.15	2.16	2.01	2.12	2.17	2.00

CAL YR 1977 MEAN 2.08 MAX 2.89 MIN 1.75
WTR YR 1978 MEAN 2.20 MAX 2.77 MIN 1.84

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286340 BISCAYNE CANAL AT S-28, NEAR MIAMI, FL

LOCATION.--Lat 25°52'41", long 80°11'35", in SE¼ sec.31, T.52 S., R.42 E., Dade County, Hydrologic Unit 03090202, on upstream side of footbridge, 100 ft (30.5 m) upstream from salinity-control structure 28, 0.7 mi (1.1 km) upstream from U.S. Highway 1, 1.2 mi (1.9 km) above mouth, and 1.7 mi (2.7 km) north of north boundary of Miami.

DRAINAGE AREA.--Indeterminate.

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

GAGE.--Water-stage and deflection-meter recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Dade County bench mark). Prior to April, 1975, at site 0.2 mi (0.3 km) downstream at same datum.

REMARKS.--Records poor. Flow is at times affected by tide and is occasionally reversed. Flow is regulated by the operation of salinity-control structure 28, 300 ft (91 m) downstream. Discharge computed from continuous velocity record obtained from recording deflection meter.

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

AVERAGE DISCHARGE.--16 years, 104 ft³/s (2.95 m³/s), 75,290 acre-ft/yr (92.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,640 ft³/s (46.4 m³/s) May 29, 1966; maximum gage height, 4.24 ft (1.292 m) Oct. 31, 1965; no flow on some days each year; maximum reverse flow, 835 ft³/s (23.6 m³/s) Sept. 8, 1965, from hurricane tide; minimum gage height, -0.34 ft (-0.104 m) May 8, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 398 ft³/s (11.3 m³/s) May 20; maximum gage height, 2.50 ft (0.762 m) June 18; no flow for many days; minimum gage height, 0.59 ft (0.180 m) Feb. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	.00	.00	.00	31	.00	.00	.00	.00	215	.00	.00
2	48	.00	.00	.00	.00	.00	.00	.00	.00	278	162	.00
3	146	.00	.00	.00	.00	101	.00	.00	.00	339	140	8.4
4	18	.00	.00	.00	.00	56	4.6	.00	109	387	.00	149
5	.00	49	.00	.00	.00	.00	.00	.00	.00	376	93	208
6	.00	.00	59	.00	.00	.00	.00	.00	.00	239	232	273
7	.00	.00	74	.00	.00	.00	20	.00	.00	251	259	202
8	.00	.00	.00	46	73	60	.00	.00	.00	239	264	230
9	.00	.00	.00	.00	61	232	.00	.00	.00	148	271	91
10	.00	.00	.00	.00	.00	313	.00	.00	.00	.00	270	.00
11	.00	.00	.00	.00	.00	66	.00	.00	.00	.00	263	.00
12	.00	.00	.00	.00	.00	73	.00	.00	.00	.00	129	.00
13	.00	.00	.00	.00	.00	144	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	58	.00	107	1.0	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	253
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	178
17	.00	.00	.00	.00	.00	133	7.0	.00	.00	.00	.00	77
18	.00	.00	.00	.00	91	142	.00	195	15	79	7.0	117
19	.00	.00	.00	.00	93	1.9	3.0	363	364	.00	51	115
20	.00	.00	.00	221	37	.00	2.6	398	284	.00	11	.00
21	.00	.00	.00	84	119	.00	.00	169	286	.00	.00	123
22	.00	.00	.00	77	62	.00	.00	187	224	.00	.00	102
23	.00	.00	.00	94	89	.00	.00	59	249	.00	117	131
24	.00	335	.00	35	48	.00	159	.00	305	.00	252	18
25	.00	278	.00	.00	.00	7.4	77	135	225	.00	171	.00
26	.00	201	.00	.00	.00	.00	47	.00	217	22	93	.00
27	.00	101	.00	.00	.00	50	.00	124	162	12	26	.00
28	.00	94	.00	.00	.00	.00	.00	225	210	.00	.00	142
29	.00	39	.00	.00	---	.00	.00	177	159	.00	.00	164
30	.00	1.4	.00	.00	---	.00	.00	103	231	.00	.00	222
31	.00	---	.00	7.2	---	.00	---	.00	---	.00	.00	---
TOTAL	291.00	1098.40	133.00	622.20	704.00	1486.30	321.20	2135.00	3040.00	2585.00	2831.00	2803.40
MEAN	9.39	36.6	4.29	20.1	25.1	47.9	10.7	68.9	101	83.4	91.3	93.4
MAX	146	335	74	221	119	313	159	398	364	387	271	273
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	577	2180	264	1230	1400	2950	637	4230	6030	5130	5620	5560

CAL YR 1977 TOTAL 31709.50 MEAN 86.9 MAX 956 MIN .00 AC-FT 62900
WTR YR 1978 TOTAL 18050.50 MEAN 49.5 MAX 398 MIN .00 AC-FT 35800

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286340 BISCAYNE CANAL AT S-28, NEAR MIAMI, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.10	2.01	2.10	1.96	1.91	2.04	1.96	2.02	2.14	2.02	2.07	2.18
2	2.14	2.02	2.06	1.96	1.94	2.03	1.92	2.00	2.13	1.90	2.05	2.21
3	1.99	2.02	2.05	1.97	1.94	2.01	1.94	1.95	2.10	1.97	2.07	2.31
4	2.07	2.04	2.02	1.96	1.94	2.06	1.95	1.97	1.99	1.87	2.25	2.12
5	2.07	2.05	2.01	1.93	2.03	2.11	1.94	1.99	2.05	1.79	2.15	1.95
6	2.08	2.08	1.99	1.94	2.04	2.09	1.91	1.99	2.10	1.86	2.05	1.91
7	2.07	2.06	1.84	1.93	2.01	2.08	1.89	1.98	2.08	1.90	1.99	2.00
8	2.07	2.05	1.72	1.94	1.87	1.99	1.93	1.99	2.03	1.88	1.93	1.86
9	2.08	2.04	1.68	2.01	2.02	1.82	1.94	1.98	2.01	1.84	1.84	2.05
10	2.07	2.00	1.61	2.00	2.07	1.76	1.91	1.98	1.99	2.05	1.78	2.12
11	2.06	1.99	1.62	1.98	2.06	2.03	1.90	1.97	1.98	2.10	1.81	2.13
12	2.04	1.95	1.67	1.94	2.02	2.08	1.91	1.98	1.98	2.08	1.87	2.11
13	2.02	1.95	1.67	2.02	2.03	1.98	1.89	2.02	2.00	2.06	2.10	2.10
14	2.01	1.95	2.06	2.05	2.03	1.86	1.93	2.02	2.03	2.06	2.09	2.10
15	2.00	1.96	2.06	2.03	2.03	2.08	2.00	1.94	2.01	2.08	2.08	2.06
16	2.03	1.95	2.07	1.98	1.94	2.05	1.99	1.92	1.99	2.08	2.09	1.98
17	2.03	1.96	2.14	1.97	1.96	1.85	1.95	1.89	1.97	2.07	2.10	2.06
18	1.97	1.94	2.19	1.96	2.00	1.64	1.92	1.95	2.02	2.06	2.01	1.97
19	1.98	1.96	2.15	1.95	2.03	1.87	1.94	1.97	1.90	1.99	2.06	2.00
20	1.97	1.94	2.10	1.96	2.06	1.98	1.92	1.67	1.95	2.07	2.07	2.12
21	2.00	1.94	2.08	2.01	1.96	1.96	1.94	2.04	1.93	2.06	2.11	1.95
22	2.06	1.95	2.03	1.94	2.02	1.99	1.93	2.01	2.01	2.07	2.07	1.83
23	2.09	1.96	1.98	1.92	2.00	1.99	1.90	2.10	1.96	2.10	2.01	1.86
24	2.06	1.97	1.98	1.93	1.97	1.98	1.86	2.16	1.94	2.08	1.98	2.00
25	2.05	2.00	2.01	2.05	2.09	1.96	2.04	1.98	1.99	2.04	2.00	2.09
26	2.04	1.98	2.02	2.07	2.07	1.96	2.09	2.05	1.95	2.00	2.11	2.16
27	2.04	1.99	1.99	2.01	2.06	1.91	2.10	2.01	2.02	2.00	2.11	2.14
28	2.02	2.00	1.98	1.97	2.02	1.93	2.06	2.00	2.04	2.03	2.13	2.03
29	2.01	2.01	1.97	1.96	---	1.97	2.03	2.05	2.10	2.03	2.14	1.86
30	2.01	2.12	1.96	1.95	---	1.95	2.01	2.09	2.07	2.02	2.14	1.85
31	2.02	---	1.95	1.95	---	1.93	---	2.13	---	2.02	2.21	---
MEAN	2.04	1.99	1.96	1.97	2.00	1.97	1.95	1.99	2.02	2.01	2.05	2.04
MAX	2.14	2.12	2.19	2.07	2.09	2.11	2.10	2.16	2.14	2.10	2.25	2.31
MIN	1.97	1.94	1.61	1.92	1.87	1.64	1.86	1.67	1.90	1.79	1.78	1.83

CAL YR 1977	MEAN 1.99	MAX 2.19	MIN 1.27
WTR YR 1978	MEAN 2.00	MAX 2.31	MIN 1.61

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286343 BISCAYNE BAY AT NORTH MIAMI, FL

LOCATION.--Lat 25°51'07", long 80°10'36", in NW¼ sec.8, T.53 S., R.42 E., Dade County, Hydrologic Unit 03090202, in stub canal in North Miami, 60 ft (18 m) east of bridge on N.E. 10th Avenue, 240 ft (73 m) south of N.W. 84th Street, and 1,000 ft (305 m) west of Biscayne Bay.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May 1947 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 and tidal fluctuations in upper Biscayne Bay. The stage recorder published is the maximum and minimum tide event for each calendar day.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 5.52 ft (1.682 m) Sept. 8, 1965; minimum, -1.77 ft (-0.539 m) Jan. 18, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 2.60 ft (0.792 m) Nov. 13, 14; minimum, -1.47 ft (-0.448 m) Jan. 11.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
TIDAL HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.22	1.94	1.49	1.64	.91	1.65	1.43	1.70	1.79	1.71	1.54	1.80
2	2.00	2.30	1.38	1.64	.97	1.64	1.32	1.69	1.76	1.67	1.53	1.83
3	1.93	2.25	1.23	1.56	1.08	1.75	1.28	1.81	1.69	1.75	1.81	1.73
4	2.00	2.16	1.37	1.65	1.63	1.82	1.37	1.78	1.64	1.42	1.76	1.68
5	1.85	2.06	1.68	1.76	1.94	1.86	1.67	1.55	1.67	1.41	1.59	1.69
6	1.80	2.12	1.75	1.84	2.17	1.67	1.64	1.51	1.50	1.42	1.58	1.71
7	1.83	2.17	1.69	2.04	2.20	2.03	1.57	1.62	1.54	1.38	1.58	1.56
8	2.08	2.18	2.02	2.19	2.57	2.17	1.76	1.88	1.32	1.30	1.44	1.41
9	2.10	2.30	2.33	2.09	2.33	2.00	1.72	1.58	1.42	1.51	1.37	1.64
10	1.76	2.33	2.04	1.72	2.12	1.86	1.56	1.40	1.55	1.56	1.35	1.79
11	2.13	2.06	2.14	1.71	2.15	1.92	1.40	1.56	1.46	1.60	1.36	1.60
12	2.06	2.27	2.59	1.93	1.99	1.73	1.27	1.44	1.60	1.49	1.28	1.74
13	1.93	2.60	2.45	1.95	1.92	1.66	1.35	1.22	1.60	1.64	1.43	1.91
14	1.92	2.60	2.36	1.58	1.48	1.71	1.24	1.15	1.69	1.68	1.70	2.07
15	2.24	2.51	1.99	1.44	1.41	1.77	1.23	1.23	1.70	1.76	1.81	2.21
16	2.11	2.40	1.74	1.00	1.55	1.73	1.13	1.37	1.80	1.78	2.02	2.49
17	2.00	2.18	1.93	1.10	1.35	1.52	1.24	1.73	1.83	1.82	2.24	2.53
18	1.74	1.92	1.72	1.03	1.51	1.24	1.37	1.53	2.52	1.81	2.23	2.36
19	1.82	1.99	1.64	1.27	1.56	.86	1.50	1.76	2.41	1.97	2.27	2.13
20	1.74	2.07	1.81	1.16	1.56	1.36	1.73	2.00	2.39	2.21	2.15	2.11
21	1.70	2.02	1.83	.94	1.61	1.51	2.11	2.17	2.42	2.22	2.13	2.10
22	1.67	2.08	1.84	.67	1.42	1.62	1.94	2.11	2.19	2.04	1.97	1.84
23	1.93	2.06	1.67	1.07	1.57	1.71	2.20	2.18	2.37	2.07	1.93	1.79
24	2.07	1.88	1.64	1.30	1.80	1.87	2.04	1.95	2.26	1.96	1.72	1.60
25	2.08	1.96	1.81	1.52	1.74	1.87	1.91	1.94	2.17	1.80	1.62	1.82
26	2.20	1.81	1.83	1.71	1.74	1.92	2.19	1.88	2.15	1.85	1.74	1.85
27	2.17	1.96	1.79	1.04	1.71	1.86	1.77	1.69	1.88	1.81	1.71	1.87
28	1.97	1.84	1.61	1.12	1.74	1.49	1.64	1.91	1.82	1.50	1.68	2.15
29	2.01	1.93	1.68	1.07	---	1.57	1.60	1.87	1.68	1.61	1.90	2.27
30	1.96	1.68	1.94	.96	---	1.64	1.70	1.88	1.80	1.40	1.75	2.54
31	1.77	---	1.59	.94	---	1.48	---	1.76	---	1.61	1.78	---
MEAN	1.96	2.12	1.83	1.44	1.70	1.69	1.60	1.70	1.85	1.70	1.74	1.93
MAX	2.24	2.60	2.59	2.19	2.57	2.17	2.20	2.18	2.52	2.22	2.27	2.54
MIN	1.67	1.68	1.23	.67	.91	.86	1.13	1.15	1.32	1.30	1.28	1.41

CAL YR 1977 MEAN -1.08 MAX 2.60 MIN -1.65
WTR YR 1978 MEAN 1.77 MAX 2.60 MIN .67

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286343 BISCAYNE BAY AT NORTH MIAMI, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
TIDAL LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-.76	-.40	-.45	-.53	-1.28	-.74	-.96	-.57	-.69	-.63	-.60	-.50
2	-.80	-.10	-.53	-.24	-1.24	-.32	-.83	-.71	-.70	-.70	-.70	-.59
3	-.67	.54	-.60	-.58	-1.15	-.45	-.92	-.72	-.88	-.72	-.63	-.64
4	-.70	.37	-.43	-.63	-1.05	-.72	-1.09	-.70	-.94	-.81	-.56	-.68
5	-1.00	.21	-.49	-.75	-.85	-.98	-1.08	-1.30	-.85	-.95	-.76	-.73
6	-.53	-.03	-.54	-.89	-.93	-.95	-1.11	-1.15	-.89	-.89	-.71	-.72
7	-.57	-.12	-.89	-.99	-.91	-.84	-1.31	-1.03	-.88	-.89	-.68	-.86
8	-.48	-.22	-.87	-1.10	-.63	-.82	-1.07	-.74	-.78	-.76	-.72	-.85
9	-.17	-.43	-.76	-1.16	-.74	-.91	-1.00	-.78	-.65	-.59	-.81	-.73
10	-.20	-.64	-1.13	-1.42	-.68	-.93	-.98	-.72	-.62	-.50	-.84	-.71
11	-.54	-1.03	-.99	-1.47	-.51	-.93	-.91	-.71	-.45	-.49	-.80	-.67
12	-.74	-.96	-.83	-1.04	-.43	-.92	-.88	-.72	-.41	-.50	-1.03	-.77
13	-.95	-.72	-.67	-.91	-.48	-.81	-.67	-.71	-.32	-.41	-.91	-.85
14	-1.04	-.62	-.56	-.85	-.63	-.57	-.59	-.59	-.39	-.53	-.92	-.76
15	-.95	-.24	-.64	-.95	-.37	-.55	-.62	-.48	-.34	-.55	-.90	-.73
16	-.80	-.32	-.63	-1.08	-.58	-.69	-.47	-.37	-.43	-.80	-.91	-.64
17	-.76	-.28	-.40	-.97	-.58	-.77	-.44	-.31	-.66	-.94	-.86	-.52
18	-.80	-.37	-.55	-.96	-.25	-.75	-.45	-.73	-.53	-1.17	-.87	-.58
19	-.67	-.24	-.59	-.84	-.49	-.66	-.51	-.65	-.50	-1.17	-.74	-.57
20	-.70	.01	-.48	-.72	-.51	-.76	-.71	-.76	-.76	-.93	-.81	-.67
21	-1.00	-.22	-.43	-1.26	-.60	-.56	-.64	-.78	-.81	-.90	-.76	-.40
22	-.53	-.26	-.50	-1.31	-.70	-.63	-.90	-1.03	-.77	-.88	-.67	-.39
23	-.57	-.42	-.79	-1.13	-.80	-.66	-.88	-1.03	-.78	-.80	-.69	-.25
24	-.48	-.62	-.62	-1.01	-.94	-.89	-1.04	-1.03	-.64	-.81	-.44	-.27
25	-.43	-.58	-.57	-.75	-.87	-.85	-.88	-1.13	-.53	-.70	-.49	-.10
26	-.62	-.80	-.55	-.60	-.82	-.81	-.98	-1.11	-.48	-.55	-.33	.09
27	-.65	-.53	-.79	-1.22	-.78	-.92	-1.01	-.84	-.59	-.40	-.19	.03
28	-.50	-.55	-.50	-1.29	-.71	-1.02	-.89	-.67	-.49	-.62	-.29	.04
29	-.63	-.34	-.75	-1.27	---	-.99	-.75	-.55	-.60	-.51	-.17	.09
30	-.33	-.41	-.80	-1.19	---	-.93	-.63	-.55	-.55	-.69	-.34	.08
31	-.57	---	-.60	-1.22	---	-.86	---	-.59	---	-.67	-.53	---
MEAN	-.65	-.34	-.64	-.98	-.74	-.78	-.84	-.77	-.63	-.72	-.67	-.50
MAX	-.17	.54	-.40	-.24	-.25	-.32	-.44	-.31	-.32	-.40	-.17	.09
MIN	-1.04	-1.03	-1.13	-1.47	-1.28	-1.02	-1.31	-1.30	-.94	-1.17	-1.03	-.86
CAL YR 1977	MEAN	-.72	MAX .54	MIN -1.65								
WTR YR 1978	MEAN	-.69	MAX .54	MIN -1.47								

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286350 LITTLE RIVER CANAL AT PALM AVENUE, HIALEAH, FL

LOCATION.--Lat 25°52'13", long 80°17'00", in SW¼ sec.31, T.52 S., R.41 E., Dade County, Hydrologic Unit 03090202, on left wingwall of Palm Avenue bridge in Hialeah, 7.5 mi (12.1 km) upstream from salinity-control structure 27, and 8.0 mi (12.9 km) upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 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 (Dade County bench mark). Prior to Oct. 1, 1962, at datum 1.55 ft (0.472 m) lower.

REMARKS.--Water levels are affected by inflow from several lateral canals, by the operation of salinity-control structure 27, and at times by tide.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 4.15 ft (1.265 m) present datum Sept. 10, 1960 from hurricane tide; minimum, 0.69 ft (0.210 m) present datum Mar. 21, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 2.73 ft (0.832 m) May 18; minimum, 1.74 ft (0.530 m) May 15.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.08	1.93	1.93	1.86	1.88	1.89	1.84	1.89	1.97	2.06	1.89	1.95
2	2.09	1.97	1.91	1.84	1.91	1.92	1.80	1.89	1.96	2.09	1.94	2.00
3	2.05	1.96	1.89	1.87	1.89	1.98	1.93	1.92	1.90	2.06	1.98	2.05
4	1.99	1.96	1.86	1.86	1.86	2.00	1.89	1.91	1.92	2.07	1.99	2.03
5	1.96	1.97	1.86	1.86	1.93	1.98	1.85	1.88	1.91	2.01	2.00	1.97
6	1.95	1.96	1.90	1.86	1.88	1.98	1.83	1.91	1.92	1.97	2.05	1.99
7	1.92	1.96	1.84	1.88	1.91	2.00	1.83	1.91	1.89	1.96	2.01	2.00
8	1.96	1.95	1.90	1.89	1.92	1.99	1.88	1.92	1.88	1.94	2.00	1.91
9	1.94	1.93	1.92	1.87	1.93	1.99	1.90	1.92	1.87	1.91	1.98	1.94
10	1.95	1.91	1.93	1.86	1.92	1.98	1.89	1.89	1.86	1.93	1.93	1.98
11	1.95	1.88	1.91	1.84	1.91	2.00	1.87	1.87	1.86	1.94	1.97	1.97
12	1.93	1.87	1.93	1.87	1.93	2.00	1.87	1.92	1.90	1.93	1.95	1.95
13	1.90	1.89	1.92	1.90	1.91	1.98	1.85	1.90	1.87	1.95	1.94	1.96
14	1.90	1.90	1.91	1.92	1.95	1.98	1.85	1.85	1.90	1.94	1.93	1.98
15	1.94	1.90	1.92	1.86	1.94	1.93	1.90	1.81	1.89	1.93	1.98	2.04
16	1.95	1.89	1.92	1.84	1.87	1.90	1.90	1.86	1.92	1.94	1.93	2.01
17	1.93	1.88	1.94	1.84	1.86	1.85	1.88	1.85	1.93	1.94	1.93	2.03
18	1.90	1.89	1.94	1.86	1.91	1.86	1.86	2.10	2.01	1.95	1.93	2.01
19	1.88	1.90	1.93	1.86	1.96	1.89	1.84	2.17	2.08	1.95	1.95	2.00
20	1.92	1.89	1.92	1.99	1.95	1.95	1.83	2.11	2.09	1.97	1.94	2.00
21	1.94	1.90	1.90	1.93	1.96	1.91	1.90	2.07	2.05	1.96	1.95	2.00
22	1.94	1.89	1.85	1.89	1.94	1.91	1.90	2.02	2.03	1.97	1.96	1.95
23	1.95	1.91	1.85	1.88	1.95	1.94	1.91	2.00	2.08	1.96	1.95	1.95
24	1.95	2.10	1.88	1.85	1.91	1.93	1.96	1.98	2.06	1.96	2.05	1.95
25	1.90	2.08	1.85	1.87	1.95	1.92	1.96	1.96	2.05	1.95	2.02	1.99
26	1.92	2.02	1.85	1.86	1.94	1.90	1.92	1.94	2.05	1.94	1.99	2.00
27	1.91	1.99	1.86	1.86	1.92	1.88	1.90	1.98	2.02	1.95	2.02	2.03
28	1.93	1.97	1.87	1.84	1.91	1.89	1.86	2.01	2.03	1.94	1.99	2.03
29	1.94	1.97	1.85	1.84	---	1.89	1.83	2.02	2.03	1.95	2.01	2.00
30	1.92	1.97	1.87	1.86	---	1.84	1.90	2.02	2.05	1.93	2.01	2.01
31	1.93	---	1.87	1.91	---	1.82	---	1.98	---	1.92	1.99	---
MEAN	1.95	1.94	1.89	1.87	1.92	1.93	1.88	1.95	1.97	1.96	1.97	1.99
MAX	2.09	2.10	1.94	1.99	1.96	2.00	1.96	2.17	2.09	2.09	2.05	2.05
MIN	1.88	1.87	1.84	1.84	1.86	1.82	1.80	1.81	1.86	1.91	1.89	1.91

CAL YR 1977 MEAN 1.96 MAX 2.73 MIN 1.64
WTR YR 1978 MEAN 1.93 MAX 2.17 MIN 1.80

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286380 LITTLE RIVER CANAL AT S-27, AT MIAMI, FL

LOCATION.--Lat 25°51'11", long 80°11'36", in NE¼ sec.12, T.53 S., R.41 E., Dade County, Hydrologic Unit 03090202, at center of upstream side of concrete bridge on N.E. 2nd Avenue at Miami, 0.4 mi (0.6 km) upstream from salinity-control structure 27, and 1.6 mi (2.6 km) upstream from mouth.

PERIOD OF RECORD.--November 1959 to September 1969, July 1973 to current year.

GAGE.--Water-stage and deflection-meter recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Dade County bench mark).

REMARKS.--Records poor. Flow is affected by tide and is occasionally reversed. Flow is regulated by the operation of salinity-control structure 27. Discharge computed from continuous velocity record obtained from recording deflection meter.

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

AVERAGE DISCHARGE.--14 year (1960-69, 1974-78), 161 ft³/s (4.56 m³/s), 116,600 acre-ft/yr (144 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,100 ft³/s (31.2 m³/s) Oct. 29, 1964; maximum gage height, 4.49 ft (1.369 m) Sept. 8, 1965; no flow on some days each year; maximum reverse flow, 1,500 ft³/s (42.5 m³/s) Sept. 8, 1965, from hurricane tide; minimum gage height, -0.18 ft (-0.55 m) Nov. 30, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 340 ft³/s (9.63 m³/s) May 19; maximum gage height, 2.65 ft (0.808 m) June 18; no flow for many days; minimum gage height, 1.09 ft (0.143 m) Sept. 26.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.96	1.91	1.81	1.78	1.83	1.78	1.75	1.86	1.91	1.93	1.83	1.86
2	2.00	1.95	1.83	1.76	1.87	1.86	1.71	1.86	1.87	1.92	1.84	1.90
3	1.97	1.92	1.79	1.79	1.86	1.88	1.88	1.89	1.77	1.92	1.90	1.91
4	1.87	1.89	1.77	1.78	1.80	1.91	1.84	1.87	1.84	1.93	1.90	1.91
5	1.85	1.89	1.78	1.79	1.84	1.87	1.82	1.82	1.85	1.90	1.93	1.90
6	1.85	1.88	1.83	1.81	1.79	1.91	1.80	1.88	1.82	1.85	1.90	1.92
7	1.80	1.90	1.77	1.81	1.82	1.90	1.79	1.90	1.78	1.83	1.91	1.92
8	1.90	1.90	1.82	1.85	1.83	1.91	1.87	1.91	1.80	1.81	1.96	1.83
9	1.87	1.85	1.85	1.80	1.80	1.89	1.87	1.90	1.80	1.82	1.92	1.82
10	1.88	1.83	1.82	1.80	1.84	1.89	1.87	1.86	1.82	1.81	1.91	1.87
11	1.90	1.81	1.80	1.77	1.79	1.90	1.86	1.80	1.82	1.84	1.95	1.89
12	1.87	1.84	1.82	1.84	1.87	1.86	1.87	1.90	1.83	1.83	1.95	1.89
13	1.84	1.84	1.81	1.83	1.80	1.87	1.84	1.81	1.78	1.89	1.89	1.90
14	1.85	1.88	1.81	1.83	1.91	1.93	1.84	1.81	1.82	1.87	1.90	1.97
15	1.89	1.87	1.85	1.76	1.86	1.81	1.86	1.81	1.84	1.88	1.95	2.03
16	1.93	1.86	1.84	1.75	1.78	1.80	1.87	1.87	1.87	1.90	1.85	2.03
17	1.89	1.83	1.85	1.76	1.76	1.77	1.83	1.82	1.90	1.91	1.87	1.89
18	1.87	1.85	1.82	1.81	1.78	1.82	1.84	1.87	1.98	1.88	1.86	1.87
19	1.84	1.86	1.83	1.78	1.79	1.86	1.83	1.85	1.99	1.93	1.87	1.90
20	1.87	1.85	1.82	1.80	1.82	1.90	1.81	1.88	1.98	1.91	1.93	1.88
21	1.88	1.87	1.82	1.78	1.80	1.89	1.92	1.94	1.95	1.90	1.90	1.90
22	1.84	1.83	1.77	1.76	1.82	1.88	1.90	1.91	1.91	1.90	1.93	1.88
23	1.85	1.85	1.79	1.79	1.83	1.91	1.88	1.91	1.95	1.90	1.82	1.88
24	1.85	1.89	1.82	1.77	1.78	1.92	1.89	1.83	1.93	1.93	1.87	1.86
25	1.79	1.86	1.76	1.78	1.85	1.89	1.88	1.85	1.96	1.88	1.89	1.87
26	1.84	1.84	1.79	1.74	1.84	1.86	1.86	1.85	1.99	1.91	1.90	1.88
27	1.84	1.85	1.81	1.78	1.82	1.86	1.82	1.87	1.95	1.92	1.97	1.95
28	1.89	1.86	1.81	1.77	1.82	1.87	1.78	1.89	1.92	1.91	1.94	1.93
29	1.90	1.87	1.80	1.79	---	1.85	1.78	1.92	1.94	1.92	2.01	1.95
30	1.87	1.86	1.81	1.83	---	1.79	1.91	1.96	1.95	1.89	2.01	1.99
31	1.90	---	1.80	1.89	---	1.75	---	1.93	---	1.90	1.89	---
MEAN	1.88	1.87	1.81	1.79	1.82	1.86	1.84	1.87	1.88	1.89	1.91	1.91
MAX	2.00	1.95	1.85	1.89	1.91	1.93	1.92	1.96	1.99	1.93	2.01	2.03
MIN	1.79	1.81	1.76	1.74	1.76	1.75	1.71	1.80	1.77	1.81	1.82	1.82

CAL YR 1977 MEAN 1.84 MAX 2.12 MIN 1.47
WTR YR 1978 MEAN 1.86 MAX 2.03 MIN 1.71

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286380 LITTLE RIVER CANAL AT S-27, AT MIAMI, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	31	212	105	76	167	87	99	201	261	188	156
2	103	.00	212	144	15	108	95	87	169	304	197	195
3	130	14	213	130	42	139	.00	14	170	254	159	235
4	137	43	204	169	54	170	49	34	138	293	221	264
5	141	84	199	125	91	187	14	103	173	275	219	276
6	137	80	157	112	153	149	26	43	206	251	287	228
7	133	33	184	110	90	126	6.9	16	186	257	240	178
8	70	25	101	95	63	94	.00	.00	172	214	165	132
9	101	80	150	214	163	185	.00	.00	143	181	79	161
10	89	81	180	241	150	165	.00	30	114	207	48	206
11	44	82	186	239	166	123	.00	62	103	211	24	195
12	84	38	157	119	116	200	.00	32	81	198	27	174
13	79	54	179	183	105	174	.00	100	114	167	135	148
14	85	43	184	174	48	52	42	136	116	164	115	164
15	31	42	163	167	113	192	93	51	116	177	91	213
16	25	63	114	159	88	158	69	.00	86	163	136	219
17	44	54	184	136	128	140	191	.00	39	181	78	137
18	22	48	201	119	180	.00	272	241	150	141	145	160
19	78	59	176	163	222	.00	275	340	217	76	149	151
20	.00	31	160	206	212	23	136	278	194	77	165	186
21	61	24	175	232	225	64	.00	247	204	119	155	187
22	129	105	147	201	190	47	.00	238	221	134	155	89
23	132	75	143	196	189	25	.00	221	228	168	194	95
24	105	302	96	196	183	33	142	207	242	133	181	113
25	158	320	128	209	165	33	192	193	216	110	221	152
26	89	287	111	175	160	53	215	150	227	70	204	168
27	76	245	53	126	190	58	122	192	229	34	129	173
28	38	241	79	97	132	40	192	255	189	65	169	162
29	19	188	92	90	---	95	190	232	153	59	121	133
30	58	199	82	65	---	107	50	224	225	98	102	111
31	52	---	103	25	---	125	---	207	---	90	224	---
TOTAL	2567.00	2971.00	4725	4722	3709	3232.00	2458.90	4032.00	5022	5132	4723	5161
MEAN	82.8	99.0	152	152	132	104	82.0	130	167	166	152	172
MAX	158	320	213	241	225	200	275	340	242	304	287	276
MIN	.00	.00	53	25	15	.00	.00	.00	39	34	24	89
AC-FT	5090	5890	9370	9370	7360	6410	4880	8000	9960	10180	9370	10240
CAL YR 1977	TOTAL	55682.10	MEAN	153	MAX	659	MIN	.00	AC-FT	110400		
WTR YR 1978	TOTAL	48454.90	MEAN	133	MAX	340	MIN	.00	AC-FT	96110		

SOUTHERN FLORIDA

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 (0.6 km) 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 (0.015 m) lower and Oct. 1, 1959, to Feb. 7, 1962, at datum 0.22 ft (0.067 m) lower.

REMARKS.--Water level records are those for Lake Okeechobee at pump station 3. Stage is affected by S-3 pumping, HGS-3 gage operations, wind, and seiche.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 18.59 ft (5.667 m) Oct. 9, 1960; minimum, 9.91 ft (3.021 m) June 8, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 17.21 ft (5.246 m) Sept. 11; minimum, 13.05 ft (3.978 m) Oct. 31.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.70	13.45	13.65	14.38	14.73	14.85	15.18	14.44	14.53	14.57	15.48	16.41
2	13.70	13.27	13.79	14.46	14.67	14.82	15.19	14.50	14.54	14.61	15.57	16.35
3	13.82	13.27	13.85	14.82	14.73	14.71	15.14	14.36	14.50	14.59	15.69	16.37
4	14.05	13.37	13.73	14.55	15.04	15.16	15.10	14.12	14.55	14.56	15.81	16.40
5	13.84	13.60	13.62	14.39	14.97	15.16	15.06	14.49	14.57	14.62	15.85	16.42
6	13.78	13.57	14.11	14.38	14.85	15.03	15.06	14.62	14.56	14.66	15.87	16.42
7	13.76	13.53	14.42	14.37	14.88	14.92	15.01	14.68	14.58	14.67	16.03	16.45
8	13.64	13.63	14.03	14.25	14.59	14.89	14.97	14.65	14.56	14.72	16.08	16.50
9	13.63	13.60	13.99	14.54	14.74	15.06	14.97	14.74	14.60	14.71	16.11	16.47
10	13.60	13.71	14.55	14.64	14.82	15.32	14.85	14.89	14.67	14.75	16.16	16.48
11	13.56	14.29	14.31	14.61	14.74	15.32	14.78	14.95	14.64	14.72	16.15	16.55
12	13.59	14.13	14.21	14.39	14.64	15.32	14.81	14.82	14.74	14.79	16.19	16.59
13	13.91	13.89	14.16	14.24	14.57	15.30	14.72	14.76	14.79	14.74	16.26	16.60
14	13.81	13.65	14.14	14.46	14.70	15.27	14.91	14.75	14.69	14.72	16.33	16.61
15	13.57	13.51	14.23	14.59	14.78	15.32	14.94	14.76	14.68	14.70	16.33	16.64
16	13.60	13.46	14.23	14.45	14.62	15.37	14.88	14.64	14.63	14.65	16.36	16.62
17	13.77	13.42	14.37	14.30	14.70	15.84	14.70	14.64	14.69	14.70	16.32	16.63
18	13.51	13.52	14.63	14.44	14.61	15.86	14.50	14.66	14.63	14.84	16.38	16.57
19	13.42	13.49	14.51	14.21	14.83	15.50	14.66	14.75	14.49	14.89	16.46	16.59
20	13.46	13.44	14.33	14.61	14.91	15.42	14.73	14.81	14.49	14.91	16.37	16.60
21	13.43	13.43	14.42	14.69	14.77	15.32	14.80	14.85	14.47	14.97	16.39	16.57
22	13.41	13.35	14.62	14.66	15.17	15.40	14.88	14.81	14.49	15.02	16.37	16.57
23	13.41	13.42	14.56	14.69	14.89	15.39	14.51	14.76	14.52	14.98	16.39	16.59
24	13.46	13.43	14.46	14.74	14.90	15.34	14.75	14.71	14.58	15.03	16.38	16.60
25	13.37	13.51	14.36	14.60	14.91	15.30	14.72	14.69	14.63	15.08	16.38	16.62
26	13.34	13.79	14.74	14.86	14.85	15.30	14.80	14.68	14.60	15.01	16.45	16.62
27	13.42	13.57	14.77	15.02	14.88	15.43	14.83	14.63	14.65	14.97	16.40	16.66
28	13.36	13.48	14.57	14.99	14.81	15.36	14.68	14.69	14.69	15.11	16.40	16.63
29	13.38	13.56	14.54	15.01	---	15.49	14.57	14.74	14.66	15.20	16.30	16.59
30	13.48	13.58	14.36	14.95	---	15.46	14.52	14.67	14.63	15.29	16.35	16.58
31	13.61	---	14.38	14.72	---	15.37	---	14.61	---	15.43	16.37	---
MEAN	13.59	13.56	14.28	14.58	14.80	15.28	14.84	14.67	14.60	14.85	16.19	16.54
MAX	14.05	14.29	14.77	15.02	15.17	15.86	15.19	14.95	14.79	15.43	16.46	16.66
MIN	13.34	13.27	13.62	14.21	14.57	14.71	14.50	14.12	14.47	14.56	15.48	16.35

CAL YR 1977 MEAN 13.60 MAX 14.91 MIN 12.30
WTR YR 1978 MEAN 14.82 MAX 16.66 MIN 13.27

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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 (0.6 km) 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 water-stage 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 (0.6 km) downstream at same datum. Oct. 1, 1957, to Sept. 30, 1959, dual water-stage recorder at present site, at datum 0.05 ft (0.015 m) lower and Oct. 1, 1959, to Feb. 7, 1962, at datum 0.22 ft (0.067 m) lower. Oct. 1, 1957 to Sept. 30, 1968, two deflection-meter recorders.

REMARKS.--Records good. Flow regulated by hurricane gates and pump station at Lake Okeechobee. Discharge is summation of HGS-3 flow and S-3 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 3 (negative figure indicates reverse flow). Discharge computed from relations between discharge, head, gate openings, and pump tachometer.

COOPERATION.--S-3 pump record and HGS-3 gate-operation record furnished by South Florida Water Management District.

AVERAGE DISCHARGE.--21 years (1957-78), 12.7 ft³/s (0.360 m³/s), 9,190 acre-ft/yr (11.3 hm³/s).

EXTREMES FOR PERIOD OF RECORD: Maximum daily discharge, 2,280 ft³/s (64.4 m³/s) Mar. 24, 1966; maximum gage height (Miami Canal) 14.92 ft (4.548 m) present datum Mar. 21, 1960 and Oct. 2, 1965; maximum daily reverse flow, 2,790 ft³/s (79.0 m³/s) Mar. 26, 1970; no flow on some days each year; minimum gage height (Miami Canal), 8.03 ft (2.448 m) present datum Sept. 22, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 601 ft³/s (17.0 m³/s) Apr. 22; maximum gage height (Miami Canal) 13.49 ft (4.112 m) Nov. 24; maximum daily reverse flow, 2,260 ft³/s (64.0 m³/s) Nov. 5; minimum gage height, 8.73 ft (2.661 m) estimated, Aug. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	153	.00	.00	.00	.00	337	153	330	.00	-392	-329
2	.00	192	.00	.00	.00	216	335	159	316	.00	-927	-555
3	.00	112	.00	.00	.00	-25	134	61	-165	.00	-867	-285
4	.00	-2070	.00	.00	.00	.00	234	.00	.00	.00	-542	-540
5	.00	-2260	.00	.00	.00	.00	419	-145	.00	.00	-523	-542
6	.00	-1720	.00	.00	.00	.00	506	-714	.00	-532	.00	-121
7	.00	-670	.00	.00	212	.00	488	-1570	-309	.00	-257	-425
8	.00	-498	.00	.00	118	.00	473	-951	.00	-511	-252	-225
9	.00	-390	.00	.00	.00	-1120	467	.00	.00	.00	.00	-173
10	.00	.00	-482	.00	.00	-463	445	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	449	.00	.00	-290	-460	.00
12	.00	.00	.00	.00	.00	.00	472	.00	322	-282	-504	.00
13	.00	.00	.00	.00	.00	.00	301	.00	150	.00	-270	.00
14	263	.00	.00	.00	.00	.00	344	.00	.00	-446	.00	.00
15	363	.00	.00	.00	.00	.00	504	115	111	-314	.00	.00
16	332	.00	.00	.00	.00	.00	486	182	288	-389	.00	.00
17	209	.00	-315	.00	-123	139	457	169	359	-280	.00	.00
18	205	.00	-270	.00	.00	204	276	-704	353	-315	.00	.00
19	247	.00	-316	-80	.00	185	225	-1510	163	-261	.00	.00
20	254	.00	.00	-151	.00	62	421	-624	.00	-689	.00	.00
21	251	44	.00	.00	.00	119	544	.00	.00	-457	.00	.00
22	246	123	.00	.00	.00	184	601	.00	.00	-43	.00	.00
23	198	51	.00	.00	.00	181	521	.00	.00	-284	.00	-202
24	54	-1450	.00	.00	.00	81	-903	208	.00	-175	.00	.00
25	.00	-743	.00	.00	.00	.00	-268	364	.00	.00	.00	-122
26	.00	.00	.00	.00	.00	.00	.00	361	-229	.00	.00	.00
27	73	.00	.00	.00	.00	130	.00	254	-547	-145	.00	.00
28	191	.00	.00	.00	.00	73	111	.00	-308	.00	.00	.00
29	237	-610	.00	.00	.00	.00	167	.00	-337	-298	.00	.00
30	241	-282	.00	.00	.00	205	159	76	.00	-1630	-296	.00
31	115	---	.00	.00	.00	364	---	398	---	-644	-889	---
TOTAL	3479.00	-10018.00	-1383.00	-231.00	207.00	535.00	8705.00	-3718.00	497.00	-7985.00	-6179.00	-3519.00
MEAN	112	-334	-44.6	-7.45	7.39	17.3	290	-120	16.6	-258	-199	-117
MAX	363	192	.00	.00	212	364	601	398	359	.00	.00	.00
MIN	.00	-2260	-482	-151	-123	-1120	-903	-1570	-547	-1630	-927	-555
AC-FT	6900	-19870	-2740	-458	411	1060	17270	-7370	986	-15840	-12260	-6980

CAL YR 1977 TOTAL 3074.00 MEAN 8.42 MAX 1180 MIN -2480 AC-FT 6100
WTR YR 1978 TOTAL -19610.00 MEAN -53.7 MAX 601 MIN -2260 AC-FT -38900

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286400 MIAMI CANAL AT HGS-3, AND S-3, AT LAKE HARBOR, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.53	11.82	11.17	10.60	11.19	11.12	12.13	11.72	11.27	10.76	10.55	10.66
2	11.32	11.90	10.70	10.94	11.10	11.18	12.17	11.59	11.56	10.39	10.51	10.79
3	11.25	12.11	10.14	11.21	10.96	11.32	11.97	11.38	11.42	10.19	10.24	11.46
4	11.43	10.97	10.00	11.04	11.01	11.18	11.61	11.21	10.80	10.19	10.18	11.19
5	11.16	10.50	10.07	10.82	11.22	10.51	11.62	10.90	10.49	10.93	10.16	10.49
6	10.95	10.16	10.69	10.95	11.36	10.44	11.65	10.38	10.72	11.68	9.89	11.07
7	10.90	11.11	10.93	11.14	11.55	10.80	11.81	10.64	11.14	11.39	10.63	10.73
8	10.76	11.67	10.48	11.60	11.85	11.05	11.95	10.55	11.04	11.78	10.92	10.34
9	10.65	11.57	10.67	11.97	12.04	10.85	12.01	11.19	10.76	11.92	10.84	9.97
10	10.59	12.08	11.36	11.75	11.92	10.84	12.12	10.52	10.48	11.88	10.81	10.17
11	10.86	12.19	11.41	11.68	11.84	10.99	11.96	10.31	10.05	11.49	11.12	10.41
12	11.04	12.16	11.09	11.74	11.66	10.59	11.71	10.57	10.68	11.08	10.94	10.27
13	10.86	12.00	10.92	11.36	11.63	10.64	11.71	10.71	12.01	11.63	10.59	11.21
14	10.92	11.82	10.65	10.43	11.68	11.23	11.25	10.78	11.65	11.90	10.79	11.46
15	11.32	11.84	10.39	9.94	11.55	11.41	11.50	10.89	11.24	11.31	10.51	11.37
16	11.72	11.83	10.47	9.90	11.48	11.45	11.64	10.94	10.99	10.97	9.88	11.19
17	11.68	11.80	11.22	10.51	11.41	11.54	11.74	10.76	10.94	10.52	9.81	11.04
18	11.27	11.59	11.79	10.38	10.73	12.00	11.50	11.09	10.96	11.20	9.83	10.91
19	11.22	11.47	11.25	10.55	10.52	12.17	11.06	10.08	11.01	10.83	9.77	10.72
20	11.15	11.26	11.27	11.53	10.63	12.03	11.42	10.19	10.94	11.20	9.03	10.60
21	11.15	11.20	10.96	11.54	10.84	11.95	11.77	10.37	11.39	10.83	9.62	10.56
22	11.22	11.26	10.75	11.07	10.72	12.04	11.95	9.97	11.69	10.16	9.81	10.88
23	11.95	11.53	10.56	10.82	11.12	12.13	12.17	10.24	11.17	10.47	9.88	11.13
24	12.10	11.35	10.36	10.63	11.44	12.00	11.24	10.33	10.97	10.12	10.25	11.23
25	11.78	10.16	10.24	10.56	11.60	11.99	10.59	10.83	11.10	10.00	9.28	11.51
26	11.66	11.17	10.18	10.54	11.70	11.58	11.09	10.89	11.56	10.88	10.24	11.69
27	11.53	10.70	10.17	10.73	11.72	11.49	11.24	10.95	11.75	10.58	9.03	11.34
28	11.36	10.64	10.08	11.05	11.46	11.78	11.12	10.72	11.67	10.57	9.26	10.91
29	11.33	10.90	10.24	11.17	---	11.63	11.43	10.63	11.13	11.66	9.11	10.70
30	11.40	10.26	10.45	11.30	---	11.45	11.64	10.55	11.01	10.57	10.23	10.70
31	12.07	---	10.49	11.28	---	11.91	---	10.68	---	10.16	9.98	---
MEAN	11.29	11.37	10.68	10.99	11.35	11.40	11.63	10.73	11.12	10.94	10.12	10.89
MAX	12.10	12.19	11.79	11.97	12.04	12.17	12.17	11.72	12.01	11.92	11.12	11.69
MIN	10.59	10.16	10.00	9.90	10.52	10.44	10.59	9.97	10.05	10.00	9.03	9.97
CAL YR 1977	MEAN 11.22		MAX 12.47	MIN 9.29								
WTR YR 1978	MEAN 11.04		MAX 12.19	MIN 9.03								

EVERGLADES SOUTHEASTERN COASTAL AREA

02286700 MIAMI CANAL AT S-8, NEAR LAKE HARBOR, FL

LOCATION.--Lat 26°19'53", long 80°46'29", in NE¼ sec.7, T.48 S., R.36 E., Broward County, Hydrologic Unit 03090202, 26 mi (42 km) south of Lake Harbor, and 26.4 mi (42.5 km) downstream from hurricane gate structure 3 and pump station 3 at Lake Okeechobee.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1962 to September 1969 (gage heights and discharge). October 1958 to current year.

GAGE.--Dual water-stage recorder and gate opening indicator. Datum of gage is National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark).

REMARKS.--Flow regulated by pumpage and operation of gate at pump station 8, by operation of hurricane gates and pump station 3 at Lake Okeechobee, and operation of drainage and irrigation pumps upstream.

COOPERATION.--Records furnished by South Florida Water Management District since October 1968. Prior to October 1968, gage height, gate opening and pump records furnished by South Florida Flood Control Districts, and records computed by U.S. Geological Survey.

AVERAGE DISCHARGE.--16 years (1963-78), 268 ft³/s (7.59 m³/s), 194,000 acre-ft/yr (239 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,240 ft³/s (120 m³/s) Oct. 22, 1969; maximum gage height, 14.69 ft (4.478 m) July 11, 1966; maximum daily reverse flow, 79 ft³/s (2.24 m³/s) July 29, 1966; no flow for many days each year; minimum gage height, 6.32 ft (1.926 m) May 14, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2170 ft³/s (61.5 m³/s) July 15; maximum daily gage height, 12.83 ft (3.911 m) Aug. 19; no flow for many days; minimum daily gage height, 8.81 ft (2.685 m) June 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	650	850	734	.00	.00	.00	.00	.00	.00	636	1140	915
2	552	850	619	87	.00	.00	.00	.00	.00	509	1150	885
3	536	875	485	193	.00	303	.00	.00	.00	459	1140	854
4	589	359	371	64	.00	657	.00	189	.00	430	730	1090
5	472	.00	447	.00	.00	449	.00	142	.00	165	696	1090
6	382	.00	535	.00	.00	104	.00	.00	.00	458	1080	938
7	294	.00	698	.00	26	.00	.00	.00	216	719	1150	921
8	279	873	609	.00	.00	.00	.00	216	463	830	1160	904
9	219	1770	572	.00	.00	491	.00	458	417	829	1150	897
10	164	1820	789	.00	.00	566	.00	378	430	825	1150	754
11	.00	1900	752	.00	.00	553	.00	178	528	770	1260	893
12	.00	1880	685	.00	.00	424	.00	.00	153	688	1970	616
13	.00	1840	637	314	.00	91	.00	.00	.00	784	1870	265
14	.00	1780	577	389	.00	.00	.00	.00	.00	1690	1900	444
15	.00	1770	494	425	.00	.00	.00	.00	.00	2170	1890	404
16	.00	633	525	117	.00	.00	.00	.00	.00	2080	1230	327
17	.00	.00	751	50	357	.00	.00	.00	.00	1280	1870	291
18	.00	.00	881	52	521	.00	.00	219	.00	1490	1870	269
19	.00	.00	748	224	489	.00	.00	428	.00	1970	1990	285
20	.00	.00	693	362	492	33	.00	415	.00	2040	1580	266
21	.00	.00	630	732	581	.00	.00	448	.00	2010	1100	111
22	.00	.00	616	627	182	.00	.00	178	280	1540	1110	53
23	.00	.00	538	587	.00	.00	.00	.00	465	1130	1110	183
24	.00	408	502	328	.00	41	482	.00	429	1120	1480	182
25	358	692	455	340	.00	.00	658	.00	447	709	1440	465
26	789	778	492	176	.00	.00	278	.00	655	504	1580	709
27	768	671	199	.00	.00	.00	.00	.00	885	450	1320	583
28	731	207	44	.00	.00	.00	.00	.00	837	458	1090	418
29	723	361	22	.00	---	.00	.00	.00	759	.00	833	342
30	731	562	.00	.00	---	.00	.00	.00	695	614	834	363
31	872	---	.00	.00	---	.00	---	.00	---	1130	863	---
TOTAL	9109.00	20879.00	16100.00	5067.00	2648.00	3712.00	1418.00	3249.00	7659.00	30487.00	40736	16717
MEAN	294	696	519	163	94.6	120	47.3	105	255	983	1314	557
MAX	872	1900	881	732	581	657	658	458	885	2170	1990	1090
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	696	53
AC-FT	18070	41410	31930	10050	5250	7360	2810	6440	15190	60470	80800	33160

CAL YR 1977 TOTAL 132442.00 MEAN 363 MAX 2300 MIN .00 AC-FT 262700
WTR YR 1978 TOTAL 157781.00 MEAN 432 MAX 2170 MIN .00 AC-FT 313000

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

264514080550700 INDUSTRIAL CANAL AT CLEWISTON, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	.00	15	53	20	20	59	109	-49	-18	-33	-50
2	-7.7	31	41	20	4.8	40	82	94	-137	-20	-6.8	-117
3	14	-120	55	.30	40	25	63	74	-184	11	7.9	-215
4	5.6	-12	58	8.0	7.9	39	68	70	-148	22	32	-408
5	84	-37	35	42	7.5	43	119	55	-133	-23	35	-505
6	22	17	25	26	32	74	121	28	-93	-7.3	23	-426
7	19	28	59	-8.8	41	84	117	66	-84	-5.4	-30	-379
8	65	76	101	-3.8	2.7	69	91	58	-69	15	-11	-176
9	14	52	93	-6.0	61	96	88	-47	-31	.00	-24	-101
10	20	57	54	27	60	89	67	-81	-31	30	15	-84
11	37	51	35	47	28	36	144	-493	-35	48	-3.9	-75
12	45	73	61	91	39	37	111	-498	-28	24	-116	-6.8
13	82	92	90	48	50	51	110	-153	-4.2	38	-171	-1.9
14	61	72	80	40	42	82	149	-38	-41	40	-107	10
15	100	70	50	-160	40	117	131	-49	-3.0	-.30	-50	-21
16	76	57	50	-167	28	29	123	-12	-11	-51	-35	-27
17	25	50	50	-74	45	7.7	68	.00	6.2	-9.9	25	-27
18	98	50	50	-10	25	67	89	.00	-60	-7.1	33	-45
19	60	50	50	-23	3.6	33	82	34	-43	-116	37	-127
20	50	50	50	9.2	39	47	87	41	-16	-68	20	-50
21	30	40	40	-4.8	59	41	99	72	7.2	-1.0	-75	-41
22	30	40	40	-15	38	110	60	67	-14	1.0	-29	-155
23	30	40	40	20	9.8	126	59	44	22	13	-4.5	-36
24	30	40	40	-5.6	52	92	65	26	28	14	-67	-8.5
25	30	40	40	20	44	100	66	51	33	-35	-20	-25
26	20	30	30	30	73	94	88	49	33	3.7	-8.8	-120
27	20	30	30	47	92	75	110	-40	58	-.50	-48	-200
28	20	30	30	9.6	21	80	124	-32	121	-18	-16	-62
29	20	30	34	82	---	80	129	-20	69	11	-8.1	-43
30	20	30	29	95	---	80	106	7.4	73	4.7	-30	1.2
31	20	---	-34	43	---	109	---	20	---	10	-5.7	---
TOTAL	1161.9	1057.00	1421	285.50	1005.3	2072.7	2875	-497.60	-763.8	-95.10	-671.9	-3471.50
MEAN	37.5	35.2	45.8	9.21	35.9	66.9	95.8	-16.1	-25.5	-3.07	-21.7	-116
MAX	100	92	101	95	92	126	149	109	121	48	37	10
MIN	-7.7	-120	-34	-167	2.7	7.7	59	-498	-184	-116	-171	-505
AC-FT	2300	2100	2820	566	1990	4110	5700	-987	-1510	-189	-1330	-6890

WTR YR 1977 TOTAL 4378.50 MEAN 12.0 MAX 149 MIN -505 AC-FT 8680

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

264514080550700 INDUSTRIAL CANAL AT CLEWISTON, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-3.3	.00	-7.3	.00	-14	24	15	-23	-36	-8.4	-146	-20
2	-2.8	.00	5.9	-37	16	-56	24	-5.4	-13	-21	-469	-34
3	-3.8	.00	-13	12	8.7	-33	26	5.3	-2.3	-26	-406	-71
4	-29	.00	-2.3	16	5.1	-94	20	-40	-57	-38	-232	-16
5	-1.2	.00	-5.50	-1.4	-2.9	-27	3.2	-86	-19	-56	-179	-24
6	17	.00	-16	.00	12	-19	.00	-358	-90	-136	-167	-17
7	54	.00	-5.4	.00	8.8	20	44	-625	-104	-59	-155	-18
8	12	.00	.00	-25	26	-12	15	-338	-152	10	-145	-5.1
9	.00	.00	-105	-18	8.9	-186	11	-151	-56	24	-140	.00
10	39	.00	-124	31	11	-26	41	-68	-123	13	-200	16
11	32	.00	-55	14	38	-37	56	-16	-57	12	-327	-11
12	-7.2	.00	-74	-13	62	-3.3	4.5	-46	-31	-20	-280	21
13	12	.00	-49	-62	36	.00	48	-24	.00	-5.4	-490	3.7
14	53	.00	-29	-8.2	-10	27	30	-26	-22	-30	-396	-7.4
15	53	.00	-10	48	26	-24	-13	.00	27	-53	-200	24
16	27	.00	-22	-52	.70	37	16	-12	44	-52	-141	13
17	18	.00	-72	-61	-6.8	-12	30	-3.1	42	-169	-141	47
18	-23	.00	-45	-36	21	53	2.4	-194	-12	-161	-77	.70
19	24	.00	-63	-67	63	4.9	21	-260	7.1	-94	-77	28
20	-1.7	.00	-41	-150	27	19	15	-102	31	-155	-82	26
21	27	.00	-36	-89	17	43	23	-34	39	-127	-53	9.7
22	16	.00	-12	-34	38	-23	28	-5.5	-13	-75	-29	13
23	-90	.00	30	-50	40	27	22	-31	-41	-58	-31	36
24	-12	.00	21	-53	66	.00	-176	-2.5	-17	-4.4	-53	39
25	-7.6	.00	15	-60	60	.10	-108	20	-48	4.9	-26	43
26	.00	.00	-27	-28	63	-74	-23	14	-60	-17	-9.4	51
27	-8.2	.00	-84	-2.1	79	-4.2	.00	-58	-29	-40	.00	42
28	24	.00	-47	-20	69	30	-14	-131	-20	-112	.00	74
29	.00	.00	-35	1.1	---	17	25	-109	-32	-135	1.4	49
30	.00	-21	-32	3.3	---	1.3	18	-65	.00	-337	-57	50
31	.00	---	-3.3	-51	---	23	---	-88	---	-158	-39	---
TOTAL	218.20	-21.00	-928.00	-792.30	768.50	-304.20	204.10	-2862.20	-844.20	-2083.3	-4746.00	362.60
MEAN	7.04	-.70	-29.9	-25.6	27.4	-9.81	6.80	-92.3	-28.1	-67.2	-153	12.1
MAX	54	.00	30	48	79	53	56	20	44	24	1.4	74
MIN	-90	-21	-124	-150	-14	-186	-176	-625	-152	-337	-490	-71
AC-FT	433	-42	-1840	-1570	1520	-603	405	-5680	-1670	-4130	-9410	719

CAL YR 1977 TOTAL 7.80 MEAN .021 MAX 149 MIN -505 AC-FT 15
WTR YR 1978 TOTAL -11027.80 MEAN -30.2 MAX 79 MIN -625 AC-FT -21870

SOUTHERN FLORIDA

149

EVERGLADES AND SOUTHEASTERN COASTAL AREA

264514080550700 INDUSTRIAL CANAL AT CLEWISTON, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											---	14.64
2											---	14.64
3											---	14.66
4											---	14.64
5											---	14.70
6											---	14.69
7											---	14.71
8											---	14.78
9											---	14.81
10											---	14.79
11											---	14.89
12											---	14.89
13											---	14.88
14											---	14.88
15											---	14.88
16											---	14.88
17											---	14.95
18											---	14.97
19											---	14.96
20											---	15.00
21											---	15.03
22											---	15.05
23											---	14.98
24											14.50	15.02
25											14.55	15.07
26											14.65	15.09
27											14.71	15.15
28											14.69	15.14
29											14.69	15.11
30											14.68	15.08
31											14.66	---
MEAN											---	14.90
MAX											---	15.15
MIN											---	14.64

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

264514080550700 INDUSTRIAL CANAL AT CLEWISTON, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.07	14.95	14.54	14.47	14.99	15.11	14.50	13.56	13.24	13.08	12.70	13.18
2	15.10	14.72	14.64	14.52	14.92	14.95	14.43	13.55	13.21	13.14	12.73	13.16
3	15.16	15.23	14.65	14.24	14.74	14.82	14.42	13.43	13.36	13.11	12.70	13.31
4	15.15	14.92	14.57	14.43	14.72	14.72	14.28	13.35	13.58	13.09	12.81	13.59
5	15.10	14.90	14.55	14.46	14.80	14.77	14.16	13.29	13.52	13.10	12.85	13.71
6	15.07	14.94	14.47	14.44	14.94	14.77	14.60	13.24	13.43	13.02	12.90	13.68
7	15.05	14.83	14.45	14.34	15.01	14.83	14.69	13.28	13.28	12.95	12.81	13.71
8	14.99	15.04	14.66	14.53	14.90	15.14	14.44	13.17	13.25	12.92	12.77	13.68
9	15.04	14.84	14.71	14.44	14.96	14.93	14.32	13.33	13.25	12.90	12.78	13.74
10	15.18	14.67	14.50	14.39	14.95	14.81	14.53	13.50	13.36	12.93	12.77	13.80
11	15.35	14.70	14.47	14.79	14.88	14.93	14.45	14.05	13.44	12.94	12.79	13.84
12	15.33	14.67	14.44	14.70	14.82	14.90	14.35	13.86	13.42	12.92	12.98	13.80
13	15.13	14.78	14.50	14.56	14.80	14.87	14.20	13.82	13.37	12.91	12.96	13.82
14	15.07	14.69	14.50	14.41	14.88	14.93	14.13	13.63	13.41	12.80	12.97	13.79
15	14.96	14.65	14.39	14.64	14.88	14.95	14.14	13.53	13.39	12.80	12.99	13.80
16	14.95	14.72	14.46	14.85	14.84	14.90	14.12	13.60	13.36	12.85	12.99	13.83
17	14.89	14.66	14.63	15.02	14.96	14.86	14.07	13.61	13.35	12.89	12.90	13.80
18	15.19	14.67	14.48	14.75	14.80	14.76	14.03	13.55	13.39	12.84	12.85	13.80
19	14.93	14.60	14.43	14.89	14.77	14.80	14.04	13.52	13.30	12.87	12.85	13.85
20	14.86	14.53	14.33	14.73	14.69	14.79	13.99	13.50	13.28	12.91	12.83	13.81
21	15.18	14.53	14.70	14.78	14.83	14.78	13.94	13.52	13.29	12.82	12.85	13.83
22	15.25	14.97	14.52	14.86	14.79	14.67	13.92	13.58	13.38	12.84	12.81	13.87
23	14.99	14.92	14.58	14.80	14.75	15.00	13.75	13.37	13.29	12.87	12.84	13.94
24	14.81	14.83	14.55	14.80	14.62	15.02	13.63	13.25	13.25	12.81	12.94	13.96
25	14.73	14.65	14.33	14.75	14.83	14.80	13.74	13.21	13.17	12.77	12.95	13.94
26	14.80	14.32	14.55	14.85	14.71	14.78	13.73	13.12	13.18	12.75	13.11	13.94
27	14.93	14.35	14.70	14.80	14.67	14.69	13.93	13.19	13.18	12.75	13.13	14.01
28	15.26	14.31	14.30	14.77	14.92	14.44	13.69	13.21	13.16	12.77	13.11	14.00
29	14.84	14.36	14.34	14.94	---	14.44	13.59	13.25	13.09	12.76	13.09	14.07
30	14.63	14.40	14.45	15.02	---	14.48	13.59	13.27	13.05	12.71	13.16	14.02
31	14.69	---	14.31	14.95	---	14.52	---	13.26	---	12.70	13.25	---
MEAN	15.02	14.71	14.51	14.67	14.83	14.81	14.11	13.44	13.31	12.89	12.91	13.78
MAX	15.35	15.23	14.71	15.02	15.01	15.14	14.69	14.05	13.58	13.14	13.25	14.07
MIN	14.63	14.31	14.30	14.24	14.62	14.44	13.59	13.12	13.05	12.70	12.70	13.16

WTR YR 1977 MEAN 14.08 MAX 15.35 MIN 12.70

EVERGLADES AND SOUTHEASTERN COASTAL AREA

264514080550700 INDUSTRIAL CANAL AT CLEWISTON, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.02	13.75	14.01	14.68	15.01	15.12	15.55	14.78	14.88	14.91	15.85	16.75
2	14.00	13.57	14.09	14.81	14.95	15.16	15.50	14.86	14.86	14.92	16.05	16.69
3	14.09	13.57	14.19	14.99	15.00	14.98	15.46	14.78	14.81	14.90	16.13	16.68
4	14.36	13.57	14.10	14.75	15.23	15.28	15.41	14.56	14.83	14.89	16.20	16.69
5	14.16	13.90	14.00	14.69	15.16	15.39	15.39	14.80	14.87	14.90	16.22	16.72
6	14.06	13.87	14.27	14.69	15.00	15.31	15.34	15.09	14.91	14.97	16.25	16.70
7	14.06	13.83	14.67	14.67	15.15	15.20	15.32	15.21	14.92	14.96	16.39	16.72
8	13.95	13.93	14.40	14.62	14.96	15.20	15.28	15.09	14.90	15.06	16.43	16.78
9	13.87	13.90	14.33	14.68	14.96	15.33	15.26	15.08	14.92	15.02	16.46	16.74
10	13.84	14.01	14.83	14.81	15.00	15.33	15.21	15.19	15.00	15.06	16.47	16.75
11	13.86	14.59	14.62	14.89	14.97	15.54	15.13	15.35	14.95	15.04	16.56	16.79
12	13.85	14.43	14.55	14.68	14.93	15.55	15.16	15.18	15.05	15.08	16.57	16.85
13	14.04	14.19	14.52	14.55	14.84	15.58	15.06	15.06	15.08	15.04	16.70	16.87
14	14.02	13.95	14.49	14.65	14.92	15.53	15.22	15.00	15.02	15.07	16.69	16.89
15	13.83	13.81	14.53	14.73	15.00	15.59	15.29	14.99	15.06	15.09	16.67	16.92
16	13.78	13.76	14.56	14.73	14.96	15.56	15.20	14.95	15.04	15.05	16.72	16.95
17	13.84	13.72	14.60	14.62	14.99	15.83	15.06	14.98	15.10	15.07	16.67	16.97
18	13.75	13.82	14.65	14.73	14.94	15.92	14.90	15.06	15.10	15.17	16.68	16.94
19	13.68	13.79	14.75	14.56	15.07	15.77	14.92	15.16	14.89	15.24	16.70	16.97
20	13.65	13.74	14.65	14.85	15.11	15.71	14.96	15.15	14.82	15.27	16.72	16.92
21	13.68	13.73	14.67	14.96	15.01	15.61	15.03	15.13	14.78	15.40	16.70	16.89
22	13.65	13.65	14.79	14.93	15.14	15.65	15.14	15.12	14.84	15.38	16.71	16.86
23	13.64	13.72	14.81	15.01	15.09	15.65	14.94	15.08	14.89	15.39	16.70	16.93
24	13.74	13.73	14.72	15.01	15.15	15.63	15.11	15.02	14.89	15.37	16.76	16.92
25	13.65	13.81	14.64	14.85	15.15	15.60	15.02	14.98	14.95	15.40	16.69	16.92
26	13.56	14.09	14.89	14.99	15.15	15.56	14.92	15.00	14.99	15.35	16.73	16.95
27	13.61	13.87	14.90	15.13	15.17	15.58	15.02	14.95	15.00	15.31	16.74	16.96
28	13.58	13.78	14.80	15.11	15.09	15.59	14.97	15.05	14.99	15.44	16.73	16.95
29	13.58	13.86	14.79	15.09	---	15.69	14.88	15.05	14.97	15.56	16.63	16.93
30	13.68	13.96	14.66	15.13	---	15.66	14.83	14.96	14.95	15.70	16.66	16.89
31	13.81	---	14.67	15.01	---	15.66	---	14.93	---	15.80	16.73	---
MEAN	13.84	13.86	14.55	14.83	15.04	15.51	15.15	15.02	14.94	15.19	16.55	16.85
MAX	14.36	14.59	14.90	15.13	15.23	15.92	15.55	15.35	15.10	15.80	16.76	16.97
MIN	13.56	13.57	14.00	14.55	14.84	14.98	14.83	14.56	14.78	14.89	15.85	16.68

CAL YR 1977 MEAN 13.91 MAX 15.14 MIN 12.70
WTR YR 1978 MEAN 15.11 MAX 16.97 MIN 13.56

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

261557080464301 EVERGLADES 160 SOUTH OF PUMP STATION NEAR LAKE HARBOR, FL

LOCATION.--Lat 26°15'57", long 80°46'43", in NE¼ sec.15, T.50 S., R.37 E., Broward County, Hydrologic Unit 03090202, 3.2 mi (5.1 km) west of Miami Canal, and 4.5 mi (7.2 km) south of pump station 8, near Lake Harbor.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1976 to current year (gage heights).

GAGE.--Water-stage recorder and Data Collection Platform (DCP). Datum of gage is National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 12.05 ft (3.673 m) Sept. 6, 1978; minimum, 7.00 ft (2.134 m) estimated, June 8, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.05 ft (3.673 m) Sept. 6; minimum, 9.05 ft (2.758 m) June 19.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.53	10.93	10.91	11.44	11.42	11.37	11.13	10.33	9.21	10.90	11.65	11.79
2	11.50	10.91	10.90	11.44	11.41	11.36	11.09	10.25	9.21	11.00	11.77	11.78
3	11.48	10.90	10.90	11.45	11.41	11.37	11.05	10.15	9.29	11.10	11.88	11.76
4	11.46	10.93	10.89	11.45	11.40	11.41	11.01	10.10	9.25	11.25	11.81	11.75
5	11.44	10.93	10.89	11.45	11.40	11.39	10.96	10.21	9.20	11.20	11.75	11.75
6	11.42	10.93	10.95	11.44	11.39	11.38	10.91	10.14	9.17	11.25	11.72	11.78
7	11.40	10.93	11.25	11.44	11.39	11.37	10.86	10.04	9.16	11.35	11.69	11.94
8	11.38	10.94	11.31	11.43	11.39	11.36	10.80	9.95	9.14	11.25	11.65	11.97
9	11.36	10.86	11.32	11.45	11.46	11.44	10.74	9.88	9.13	11.20	11.61	11.97
10	11.35	10.85	11.34	11.44	11.45	11.47	10.68	9.98	9.13	11.18	11.59	11.94
11	11.33	10.84	11.31	11.43	11.44	11.45	10.61	10.07	9.13	11.20	11.57	11.85
12	11.31	10.83	11.31	11.42	11.43	11.43	10.54	9.91	9.13	11.23	11.59	11.80
13	11.30	10.80	11.30	11.42	11.42	11.42	10.47	9.79	9.13	11.28	11.61	11.76
14	11.28	10.79	11.30	11.42	11.41	11.41	10.54	9.69	9.12	11.44	11.60	11.72
15	11.26	10.78	11.28	11.41	11.40	11.39	10.80	9.58	9.11	11.68	11.59	11.68
16	11.23	10.77	11.29	11.40	11.39	11.38	10.71	9.49	9.09	11.64	11.61	11.66
17	11.21	10.76	11.39	11.39	11.39	11.37	10.62	9.41	9.08	11.63	11.62	11.64
18	11.19	10.75	11.40	11.39	11.44	11.35	10.58	9.44	9.06	11.61	11.63	11.62
19	11.16	10.75	11.39	11.43	11.47	11.33	10.53	9.52	9.06	11.59	11.64	11.60
20	11.14	10.74	11.39	11.61	11.46	11.31	10.44	9.40	9.38	11.57	11.70	11.58
21	11.11	10.73	11.38	11.57	11.46	11.30	10.34	9.45	10.13	11.56	11.73	11.56
22	11.11	10.73	11.38	11.55	11.45	11.29	10.26	9.71	10.31	11.55	11.73	11.55
23	11.11	10.72	11.38	11.53	11.44	11.27	10.20	9.53	10.61	11.57	11.80	11.54
24	11.10	10.70	11.39	11.51	11.43	11.26	10.77	9.40	10.52	11.57	11.97	11.53
25	11.08	10.95	11.40	11.50	11.41	11.24	10.87	9.32	10.41	11.55	11.94	11.52
26	11.06	10.94	11.43	11.48	11.40	11.22	10.78	9.28	10.31	11.53	11.92	11.52
27	11.03	10.94	11.44	11.47	11.39	11.20	10.68	9.26	10.51	11.51	11.90	11.50
28	11.00	10.93	11.44	11.45	11.38	11.20	10.59	9.28	10.75	11.49	11.88	11.49
29	10.96	10.92	11.44	11.44	---	11.20	10.50	9.35	10.80	11.47	11.85	11.48
30	10.93	10.91	11.44	11.43	---	11.18	10.41	9.28	10.85	11.47	11.82	11.47
31	10.92	---	11.44	11.42	---	11.16	---	9.23	---	11.49	11.81	---
MEAN	11.23	10.85	11.28	11.45	11.42	11.33	10.68	9.69	9.61	11.40	11.73	11.68
MAX	11.53	10.95	11.44	11.61	11.47	11.47	11.13	10.33	10.85	11.68	11.97	11.97
MIN	10.92	10.70	10.89	11.39	11.38	11.16	10.20	9.23	9.06	10.90	11.57	11.47

CAL YR 1977 MEAN 10.21 MAX 11.66 MIN 7.00
WTR YR 1978 MEAN 11.03 MAX 11.97 MIN 9.06

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286960 EVERGLADES 3-62S NEAR ANDYTOWN, FL

LOCATION.--Lat 26°10'57", long 80°44'13", in SE¼ sec.4, T.50 S., R.36 E., Broward County, Hydrologic Unit 03090202, in water conservation area 3A, 1.8 mi (2.9 km) north of State Highway 84, and 20 mi (32.2 km) west of Andytown.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1973 to December 1974, October 1975 to current year.

GAGE.--Water-stage recorder and Data Collection Platform (DCP). Datum of gage is National Geodetic Vertical Datum of 1929 (datum furnished by the Corps of Engineers).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 11.71 ft (3.569 m) estimated, Aug. 23, 1978; minimum 6.16 ft (1.877 m) May 6, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.71 ft (3.569 m) estimated, Aug. 23; minimum, 9.29 ft (2.832 m) May 26.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.17	10.52	10.51	10.59	10.69	10.67	10.55	10.12	9.81	10.46	11.11	11.50
2	11.17	10.49	10.49	10.59	10.68	10.65	10.51	10.06	9.73	10.64	11.11	11.49
3	11.17	10.47	10.47	10.60	10.67	10.69	10.47	9.98	9.68	10.59	11.11	11.49
4	11.17	10.56	10.44	10.59	10.66	10.72	10.44	9.93	9.60	10.56	11.11	11.48
5	11.16	10.65	10.42	10.58	10.66	10.70	10.40	10.10	9.51	10.53	11.20	11.45
6	11.16	10.62	10.51	10.57	10.65	10.69	10.35	10.08	9.45	10.51	11.35	11.46
7	11.14	10.60	10.58	10.56	10.64	10.68	10.30	9.97	9.57	10.57	11.37	11.45
8	11.12	10.58	10.55	10.55	10.64	10.67	10.26	9.87	9.72	10.63	11.40	11.44
9	11.10	10.57	10.58	10.58	10.75	10.81	10.21	9.80	9.93	10.61	11.47	11.42
10	11.07	10.55	10.70	10.55	10.73	10.83	10.16	9.76	9.84	10.60	11.50	11.40
11	11.04	10.53	10.66	10.54	10.71	10.85	10.11	9.73	9.78	10.61	11.52	11.41
12	11.01	10.51	10.64	10.52	10.70	10.84	10.06	9.67	9.78	10.65	11.59	11.40
13	10.98	10.49	10.63	10.54	10.68	10.83	10.02	9.62	9.85	10.64	11.62	11.39
14	10.93	10.47	10.62	10.56	10.67	10.82	10.03	9.56	9.73	10.69	11.63	11.38
15	10.90	10.45	10.60	10.54	10.65	10.80	10.25	9.48	9.62	10.93	11.63	11.35
16	10.86	10.45	10.60	10.52	10.65	10.77	10.18	9.41	9.52	10.98	11.61	11.32
17	10.83	10.53	10.66	10.51	10.65	10.76	10.09	9.34	9.44	10.99	11.63	11.30
18	10.79	10.51	10.67	10.50	10.71	10.74	10.21	9.33	9.50	11.01	11.62	11.28
19	10.76	10.49	10.65	10.53	10.77	10.72	10.46	9.48	9.98	11.08	11.64	11.29
20	10.74	10.46	10.63	10.76	10.75	10.71	10.39	9.74	10.04	11.10	11.65	11.30
21	10.72	10.44	10.62	10.73	10.76	10.70	10.29	9.66	10.24	11.10	11.66	11.34
22	10.69	10.46	10.61	10.73	10.75	10.69	10.20	9.67	10.52	11.10	11.70	11.38
23	10.68	10.44	10.59	10.74	10.74	10.67	10.12	9.58	10.55	11.11	11.71	11.37
24	10.66	10.64	10.58	10.74	10.72	10.65	10.47	9.46	10.53	11.12	11.62	11.38
25	10.65	10.62	10.59	10.74	10.71	10.64	10.53	9.37	10.47	11.12	11.60	11.40
26	10.63	10.59	10.68	10.74	10.70	10.62	10.46	9.49	10.42	11.11	11.57	11.37
27	10.60	10.56	10.65	10.74	10.69	10.60	10.39	10.08	10.40	11.11	11.56	11.35
28	10.58	10.54	10.63	10.73	10.68	10.59	10.31	10.04	10.35	11.10	11.51	11.33
29	10.55	10.53	10.62	10.71	---	10.60	10.24	10.03	10.32	11.08	11.50	11.32
30	10.54	10.53	10.61	10.71	---	10.57	10.17	9.94	10.32	11.06	11.50	11.38
31	10.53	---	10.60	10.70	---	10.56	---	9.84	---	11.07	11.49	---
MEAN	10.87	10.53	10.59	10.62	10.70	10.70	10.29	9.75	9.94	10.85	11.49	11.39
MAX	11.17	10.65	10.70	10.76	10.77	10.85	10.55	10.12	10.55	11.12	11.71	11.50
MIN	10.53	10.44	10.42	10.50	10.64	10.56	10.02	9.33	9.44	10.46	11.11	11.28

CAL YR 1977 MEAN 9.58 MAX 11.17 MIN 7.20
WTR YR 1978 MEAN 10.64 MAX 11.71 MIN 9.33

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286962 CANAL 60 AT S-140 NEAR FORT LAUDERDALE, FL

LOCATION.--Lat 26°10'17", long 80°49'42", T.50 S., R.35 E., Broward County, Hydrologic Unit 03090202, 0.8 mi (1.3 km) north of Everglades Parkway, 71 mi (114 km) east of Naples, and 24 mi (39 km) west of Fort Lauderdale.

DRAINAGE AREA.--Indeterminate.

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

GAGE.--Dual water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark).

REMARKS.--Flow regulated by pumpage and gate structure at S-140.

COOPERATION.--Records furnished by South Florida Water Management District.

AVERAGE DISCHARGE.-- 9 years, 124 ft³/s (3.51 m³/s), 89,770 acre-ft/yr (111 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,620 ft³/s (45.9 m³/s) Sept. 4, 1977; maximum gage height, 12.37 ft (3.770 m) Oct. 4, 1970; no flow for many days each year; minimum gage height, 7.98 ft (2.432 m) June 13, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge 1,310 ft³/s (37.1 m³/s) Sept. 6; maximum daily gage height, 11.87 ft (3.618 m) Sept. 4; no flow for many days; minimum daily gage height, 8.57 ft (2.612 m) July 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	233	28	61	74	98	94	24	.00	.00	166	805	543
2	200	9.7	62	101	101	74	25	.00	.00	162	853	.00
3	155	7.8	61	195	100	87	13	.00	.00	154	1250	.00
4	80	23	58	85	97	162	2.0	.00	.00	116	1180	.00
5	59	40	57	80	93	153	3.1	.00	.00	131	1110	806
6	117	43	48	79	92	162	6.4	.00	.00	140	1010	1310
7	75	70	60	78	54	143	6.3	.00	.00	122	914	791
8	59	81	64	87	46	101	6.3	.00	26	136	829	413
9	73	77	62	86	100	353	2.7	.00	86	155	816	415
10	52	78	66	86	183	285	.00	.00	93	125	701	385
11	33	76	71	82	74	.00	.00	.00	80	131	694	403
12	74	74	69	78	75	.00	.00	.00	47	145	694	406
13	63	72	72	79	95	384	.00	.00	42	432	697	369
14	63	68	71	77	99	.00	.00	.00	30	748	696	396
15	63	65	73	28	87	155	.00	.00	.00	1070	693	399
16	.00	63	83	47	81	178	.00	.00	.00	1060	689	286
17	.00	63	91	81	105	162	.00	.00	.00	877	721	290
18	13	42	95	74	111	132	.00	.00	.00	779	761	293
19	26	32	95	287	148	131	.00	48	.00	726	791	292
20	32	32	120	535	130	73	.00	.00	.00	570	973	291
21	39	32	126	514	129	54	.00	.00	47	668	907	288
22	39	32	120	512	135	111	.00	.00	93	483	784	282
23	40	32	115	382	68	67	.00	18	72	487	944	284
24	41	37	114	373	91	62	39	.00	66	479	1240	285
25	25	40	114	180	118	61	.00	18	55	293	1170	291
26	20	41	114	229	109	100	5.9	.00	49	324	1080	350
27	29	40	113	437	102	12	8.7	.00	70	329	935	322
28	28	56	111	427	94	55	4.8	.00	103	308	797	290
29	27	61	64	218	---	30	.00	.00	117	.00	773	254
30	27	60	61	110	---	24	.00	.00	161	578	756	.00
31	26	---	72	.00	---	33	---	18	---	548	729	---
TOTAL	1811.00	1475.5	2563	5701.00	2815	3438.00	147.20	102.00	1237.00	12442.00	26992	10734.00
MEAN	58.4	49.2	82.7	184	101	111	4.91	3.29	41.2	401	871	358
MAX	233	81	126	535	183	384	39	48	161	1070	1250	1310
MIN	.00	7.8	48	.00	46	.00	.00	.00	.00	.00	689	.00
AC-FT	3590	2930	5080	11310	5580	6820	292	202	2450	24680	53540	21290

CAL YR 1977 TOTAL 38427.50 MEAN 105 MAX 1620 MIN .00 AC-FT 76220
WTR YR 1978 TOTAL 69457.70 MEAN 190 MAX 1310 MIN .00 AC-FT 137800

02286970 EVERGLADES 3-64S NEAR MIRAMAR, FL

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1973 to current year (gage heights).

GAGE.--Water-stage recorder and Data Collection Platform (DCP). Datum of gage is National Geodetic Vertical Datum of 1929 (datum furnished by the Corps of Engineers).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 10.67 ft (3.252 m) Aug. 30, 1978; minimum, 6.03 ft (1.838 m) May 7, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 10.67 ft (3.252 m) Aug. 30; minimum, 9.24 ft (2.816 m) June 17, 18.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.08	9.83	9.63	9.55	9.50	9.84	9.91	9.53	9.36	9.37	10.38	10.51
2	10.09	9.81	9.62	9.55	9.51	9.84	9.89	9.51	9.35	9.37	10.34	10.48
3	10.10	9.80	9.60	9.55	9.52	9.89	9.88	9.49	9.33	9.38	10.32	10.45
4	10.11	9.98	9.58	9.54	9.51	9.96	9.87	9.48	9.33	9.43	10.33	10.44
5	10.11	10.04	9.57	9.54	9.52	9.93	9.85	9.49	9.31	9.48	10.36	10.45
6	10.12	9.99	9.59	9.53	9.53	9.92	9.84	9.47	9.32	9.53	10.35	10.45
7	10.12	9.96	9.59	9.52	9.53	9.93	9.82	9.45	9.34	9.54	10.37	10.45
8	10.13	9.93	9.57	9.53	9.54	9.94	9.80	9.43	9.33	9.54	10.36	10.43
9	10.13	9.90	9.57	9.55	9.66	10.03	9.78	9.41	9.33	9.55	10.35	10.41
10	10.13	9.88	9.60	9.52	9.65	10.09	9.76	9.39	9.34	9.55	10.33	10.40
11	10.12	9.85	9.59	9.50	9.64	10.10	9.75	9.38	9.33	9.56	10.32	10.39
12	10.12	9.82	9.58	9.49	9.64	10.11	9.72	9.36	9.33	9.56	10.31	10.38
13	10.10	9.80	9.58	9.49	9.65	10.11	9.71	9.35	9.32	9.57	10.33	10.38
14	10.08	9.78	9.58	9.51	9.65	10.10	9.68	9.34	9.30	9.60	10.34	10.37
15	10.06	9.76	9.58	9.50	9.64	10.10	9.67	9.32	9.29	9.74	10.34	10.38
16	10.05	9.75	9.58	9.49	9.64	10.09	9.66	9.31	9.27	9.78	10.35	10.37
17	10.03	9.74	9.65	9.49	9.68	10.05	9.64	9.29	9.25	9.82	10.38	10.34
18	10.01	9.72	9.67	9.49	9.75	10.01	9.65	9.29	9.25	9.85	10.37	10.33
19	10.00	9.71	9.65	9.50	9.81	10.00	9.68	9.30	9.26	9.89	10.35	10.30
20	9.99	9.70	9.64	9.56	9.80	10.00	9.66	9.31	9.26	9.94	10.34	10.28
21	9.98	9.68	9.64	9.55	9.82	10.01	9.63	9.31	9.28	9.96	10.33	10.27
22	9.99	9.70	9.62	9.53	9.82	10.01	9.60	9.30	9.31	10.00	10.31	10.26
23	10.00	9.68	9.60	9.53	9.81	10.00	9.58	9.28	9.31	10.03	10.33	10.26
24	9.98	9.70	9.60	9.53	9.83	9.99	9.66	9.30	9.32	10.05	10.41	10.25
25	9.96	9.70	9.60	9.54	9.83	9.97	9.67	9.37	9.31	10.04	10.42	10.31
26	9.95	9.69	9.61	9.54	9.83	9.96	9.64	9.44	9.31	10.04	10.41	10.38
27	9.93	9.66	9.59	9.52	9.83	9.94	9.61	9.44	9.32	10.03	10.40	10.33
28	9.91	9.65	9.57	9.51	9.84	9.93	9.58	9.42	9.33	10.08	10.38	10.30
29	9.89	9.64	9.56	9.50	---	9.93	9.56	9.41	9.39	10.23	10.36	10.28
30	9.87	9.64	9.56	9.49	---	9.91	9.55	9.39	9.39	10.41	10.47	10.30
31	9.86	---	9.56	9.49	---	9.90	---	9.37	---	10.35	10.56	---
MEAN	10.03	9.78	9.60	9.52	9.68	9.99	9.71	9.38	9.32	9.78	10.36	10.36
MAX	10.13	10.04	9.67	9.56	9.84	10.11	9.91	9.53	9.39	10.41	10.56	10.51
MIN	9.86	9.64	9.56	9.49	9.50	9.84	9.55	9.28	9.25	9.37	10.31	10.21

CAL YR 1977	MEAN 9.02	MAX 10.13	MIN 7.43
WTR YR 1978	MEAN 9.79	MAX 10.56	MIN 9.25

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02286998 EVERGLADES 3-63S NEAR ANDYTOWN, FL

LOCATION.--Lat 26°11'18", long 80°32'09", in SE¼ sec.4, T.49 S., R.38 E., Broward County, Hydrologic Unit 03090202, in water conservation area 3A, 5 mi (8.0 km) north of State Highway 84, and 7 mi (11.3 km) northwest of Andytown.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1973 to current year (gage heights).

GAGE.--Water-stage recorder and Data Collection Platform (DCP). Datum of gage is National Geodetic Vertical Datum of 1929 (datum furnished by the Corps of Engineers).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 11.48 ft (3.499 m) Sept. 8, 1974; minimum, 5.31 ft (1.618 m) May 6, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.29 ft (3.441 m) Aug. 12, 13; minimum, 9.46 ft (2.883 m) June 2, 20, 21.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.15	10.13	9.90	9.85	10.15	10.35	10.24	9.66	9.48	9.89	10.89	11.07
2	11.17	10.11	9.89	9.84	10.14	10.35	10.20	9.65	9.50	9.95	10.90	11.05
3	11.18	10.09	9.88	9.82	10.13	10.40	10.17	9.63	9.57	10.02	10.92	11.04
4	11.18	10.10	9.86	9.81	10.12	10.49	10.14	9.63	9.60	10.07	10.93	11.04
5	11.11	10.23	9.84	9.80	10.11	10.49	10.11	9.64	9.58	10.18	10.97	11.09
6	11.02	10.25	9.87	9.79	10.10	10.48	10.08	9.64	9.55	10.24	11.05	11.10
7	10.96	10.25	9.89	9.78	10.09	10.48	10.05	9.64	9.54	10.27	11.11	11.09
8	10.91	10.24	9.87	9.77	10.09	10.48	10.03	9.64	9.53	10.31	11.14	11.07
9	10.86	10.22	9.88	9.77	10.17	10.56	10.00	9.66	9.53	10.34	11.18	11.05
10	10.81	10.21	9.98	9.76	10.17	10.63	9.97	9.71	9.53	10.37	11.21	11.05
11	10.77	10.19	9.96	9.74	10.16	10.63	9.94	9.74	9.54	10.41	11.23	11.04
12	10.73	10.16	9.95	9.72	10.15	10.63	9.92	9.74	9.58	10.44	11.26	11.03
13	10.69	10.13	9.94	9.74	10.14	10.62	9.89	9.74	9.62	10.44	11.29	11.00
14	10.65	10.10	9.93	9.77	10.14	10.61	9.87	9.73	9.59	10.45	11.27	10.99
15	10.60	10.08	9.92	9.79	10.13	10.60	9.87	9.71	9.56	10.48	11.25	10.98
16	10.57	10.06	9.91	9.80	10.12	10.60	9.85	9.69	9.53	10.57	11.23	10.98
17	10.53	10.04	9.97	9.81	10.14	10.58	9.82	9.67	9.51	10.66	11.21	10.97
18	10.49	10.02	9.99	9.81	10.20	10.56	9.80	9.68	9.48	10.70	11.18	10.94
19	10.46	10.00	9.99	9.81	10.28	10.54	9.78	9.69	9.47	10.73	11.17	10.92
20	10.43	9.97	9.98	9.86	10.29	10.53	9.77	9.69	9.46	10.75	11.21	10.89
21	10.40	9.95	9.98	9.88	10.31	10.53	9.75	9.67	9.48	10.77	11.25	10.86
22	10.37	9.94	9.97	9.89	10.32	10.51	9.73	9.64	9.50	10.78	11.23	10.85
23	10.35	9.93	9.95	9.90	10.32	10.49	9.70	9.60	9.54	10.79	11.22	10.86
24	10.33	9.93	9.94	9.92	10.33	10.46	9.75	9.57	9.58	10.79	11.21	10.86
25	10.31	9.93	9.93	9.96	10.33	10.42	9.77	9.55	9.60	10.77	11.20	10.86
26	10.29	9.93	9.96	10.00	10.34	10.38	9.77	9.55	9.62	10.73	11.18	10.86
27	10.26	9.92	9.94	10.02	10.34	10.34	9.75	9.53	9.68	10.70	11.16	10.84
28	10.24	9.91	9.92	10.05	10.34	10.32	9.73	9.52	9.75	10.68	11.12	10.82
29	10.21	9.90	9.90	10.08	---	10.31	9.70	9.53	9.80	10.71	11.06	10.80
30	10.19	9.90	9.89	10.11	---	10.27	9.68	9.51	9.84	10.84	11.06	10.80
31	10.16	---	9.87	10.14	---	10.26	---	9.49	---	10.82	11.07	---
MEAN	10.63	10.06	9.92	9.86	10.20	10.48	9.89	9.64	9.57	10.50	11.14	10.96
MAX	11.18	10.25	9.99	10.14	10.34	10.63	10.24	9.74	9.84	10.84	11.29	11.10
MIN	10.16	9.90	9.84	9.72	10.09	10.26	9.68	9.49	9.46	9.89	10.89	10.80

CAL YR 1977 MEAN 9.21 MAX 11.18 MIN 6.69
WTR YR 1978 MEAN 10.24 MAX 11.29 MIN 9.46

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02287395 MIAMI CANAL EAST OF LEVEE 30, NEAR MIAMI, FL

LOCATION.--Lat 25°56'28", long 80°26'23", in NE¼ sec.9, T.52 S., R.39 E., Dade County, Hydrologic Unit 03090202, near center of span upstream side of bridge on State Highway 27, 200 ft (61.0 m) downstream from control structure 32, 14.1 mi (22.7 km) upstream from salinity-control structure, 19.5 mi (31.4 km) northwest of Miami, and 19.8 mi (31.9 km) upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1959 to current year. Published as "at broken dam, near Miami" November 1959 to September 1967.

GAGE.--Water-stage and deflection-meter recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Dade County bench mark). Prior to January 20, 1968, at site 0.5 mi (0.8 km) downstream at same datum.

REMARKS.--Records fair. Flow affected by regulation at downstream salinity-control structure and by upstream storage releases at control structures 31, 32, and 32A. Discharge computed from continuous velocity record obtained from recording deflection meter.

AVERAGE DISCHARGE.--18 years (1960-78), 260 ft³/s (7.36 m³/s), 188,200 acre-ft/yr (232 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,090 ft³/s (30.9 m³/s) Mar. 20, 1970; maximum gage height, 6.21 ft (1.893 m) July 30, 1966 (at site then in use); minimum daily discharge, 41 ft³/s (1.16 m³/s) July 23, 24, 1963; minimum gage height, 1.40 ft (0.427 m) May 31, 1962 (at site then in use).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge 445 ft³/s (12.6 m³/s) Sept. 14, 15; maximum gage height, 4.52 ft (1.378 m) Sept. 4; minimum daily discharge, 206 ft³/s (5.83 m³/s) Nov. 6; minimum gage height, 3.00 ft (0.914 m) May 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	254	214	231	209	225	253	247	233	230	236	276	410
2	251	216	231	212	229	247	247	234	228	238	275	411
3	247	216	225	213	227	254	246	234	229	233	269	415
4	254	219	221	216	229	262	245	232	231	240	267	424
5	249	220	222	216	232	249	245	230	225	238	278	442
6	250	206	217	219	232	249	243	229	226	241	282	436
7	241	222	213	221	231	253	242	227	229	242	281	431
8	241	223	246	218	234	254	244	226	227	246	283	434
9	240	222	232	218	241	260	242	227	223	251	280	433
10	234	224	229	215	239	254	241	228	223	249	277	427
11	239	221	224	213	233	256	238	221	221	249	282	429
12	234	217	219	216	234	256	237	222	224	252	284	436
13	235	210	216	222	238	250	241	226	229	250	287	440
14	236	221	216	226	236	263	241	228	235	250	332	445
15	227	226	220	223	235	259	230	227	225	253	378	445
16	223	228	217	221	239	257	236	232	221	262	378	436
17	224	218	223	223	246	249	236	222	219	261	379	428
18	220	222	221	221	247	248	239	225	219	258	379	418
19	219	219	209	222	261	247	235	236	221	268	379	410
20	215	214	214	231	251	246	236	237	223	266	378	405
21	213	214	215	228	252	283	232	237	222	264	380	397
22	212	226	211	226	253	303	227	236	227	273	385	394
23	214	234	208	225	289	310	224	236	225	274	383	391
24	214	222	207	222	334	285	237	234	229	272	397	376
25	219	239	210	227	298	252	239	233	225	271	400	374
26	218	227	212	225	294	251	235	235	225	278	397	370
27	226	242	211	222	273	247	233	231	225	280	398	365
28	229	234	211	223	264	249	230	231	225	277	399	368
29	226	227	208	222	---	268	233	232	225	281	401	353
30	217	232	208	225	---	243	233	229	227	284	408	348
31	215	---	210	227	---	244	---	230	---	278	413	---
TOTAL	7136	6675	6757	6847	6996	8001	7134	7140	6763	8015	10585	12291
MEAN	230	223	218	221	250	258	238	230	225	259	341	410
MAX	254	242	246	231	334	310	247	237	235	284	413	445
MIN	212	206	207	209	225	243	224	221	219	233	267	348
AC-FT	14150	13240	13400	13580	13880	15870	14150	14160	13410	15900	21000	24380

CAL YR 1977	TOTAL	81887	MEAN 224	MAX 394	MIN 125	AC-FT 162400
WTR YR 1978	TOTAL	94340	MEAN 258	MAX 445	MIN 206	AC-FT 187100

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02287395 MIAMI CANAL EAST OF LEVEE 30, NEAR MIAMI, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.19	3.80	3.85	3.55	3.36	3.32	3.34	3.19	3.35	3.88	3.60	3.93
2	4.14	3.81	3.81	3.57	3.36	3.31	3.29	3.17	3.33	3.98	3.60	3.89
3	4.10	3.80	3.78	3.62	3.31	3.38	3.24	3.14	3.32	3.87	3.64	3.90
4	4.08	3.86	3.76	3.61	3.32	3.50	3.20	3.21	3.30	3.88	3.61	4.06
5	4.07	3.94	3.76	3.56	3.44	3.38	3.20	3.23	3.31	3.83	3.65	4.39
6	4.03	3.91	3.86	3.55	3.41	3.34	3.21	3.21	3.35	3.82	3.98	4.31
7	4.01	3.88	3.91	3.56	3.37	3.24	3.23	3.19	3.36	3.82	3.95	4.24
8	3.99	3.85	3.94	3.56	3.39	3.20	3.21	3.15	3.34	3.80	3.87	4.15
9	3.98	3.84	3.87	3.66	3.52	3.55	3.19	3.14	3.32	3.82	3.79	4.09
10	3.98	3.85	3.95	3.57	3.39	3.59	3.21	3.13	3.30	3.78	3.68	4.02
11	3.99	3.82	3.88	3.52	3.36	3.46	3.18	3.10	3.29	3.70	3.63	3.98
12	3.99	3.78	3.85	3.51	3.34	3.36	3.18	3.10	3.37	3.68	3.62	3.94
13	3.97	3.78	3.85	3.62	3.32	3.32	3.14	3.13	3.58	3.63	3.61	3.91
14	3.94	3.79	3.84	3.70	3.30	3.35	3.16	3.14	3.76	3.62	3.75	3.97
15	3.91	3.78	3.79	3.62	3.28	3.31	3.21	3.11	3.60	3.64	3.97	4.00
16	3.92	3.78	3.79	3.56	3.25	3.30	3.20	3.07	3.49	3.61	3.96	3.99
17	3.92	3.76	3.95	3.50	3.27	3.28	3.17	3.08	3.42	3.59	3.95	3.99
18	3.88	3.78	3.95	3.45	3.45	3.26	3.15	3.39	3.47	3.64	3.92	3.96
19	3.86	3.76	3.87	3.46	3.73	3.26	3.16	3.75	3.63	3.62	3.94	3.92
20	3.85	3.72	3.92	3.78	3.60	3.24	3.13	3.73	3.62	3.61	3.97	3.91
21	3.83	3.71	3.76	3.67	3.62	3.37	3.16	3.57	3.63	3.64	3.98	3.88
22	3.85	3.88	3.69	3.62	3.54	3.55	3.14	3.46	3.77	3.74	3.91	3.86
23	3.96	3.88	3.66	3.56	3.60	3.58	3.19	3.37	3.79	3.77	3.97	3.90
24	3.97	4.13	3.65	3.51	3.90	3.54	3.53	3.32	3.74	3.73	4.21	3.83
25	3.91	4.17	3.65	3.48	3.65	3.28	3.47	3.30	3.78	3.61	4.15	3.88
26	3.89	4.07	3.66	3.45	3.61	3.23	3.35	3.36	3.91	3.60	4.08	3.93
27	3.88	4.01	3.61	3.41	3.48	3.22	3.27	3.38	4.00	3.57	4.03	3.90
28	3.85	3.94	3.57	3.37	3.34	3.30	3.23	3.46	4.00	3.57	3.98	3.93
29	3.85	3.90	3.55	3.35	---	3.42	3.23	3.46	3.92	3.57	3.94	3.86
30	3.84	3.89	3.55	3.39	---	3.27	3.21	3.40	3.84	3.60	3.93	3.86
31	3.81	---	3.56	3.38	---	3.29	---	3.37	---	3.57	3.98	---
MEAN	3.95	3.86	3.78	3.54	3.45	3.35	3.23	3.28	3.56	3.70	3.87	3.98
MAX	4.19	4.17	3.95	3.78	3.90	3.59	3.53	3.75	4.00	3.98	4.21	4.39
MIN	3.81	3.71	3.55	3.35	3.25	3.20	3.13	3.07	3.29	3.57	3.60	3.83
CAL YR 1977	MEAN	3.49	MAX	4.73	MIN	2.29						
WTR YR 1978	MEAN	3.63	MAX	4.39	MIN	3.07						

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

02287500 MIAMI CANAL AT PENNSUCO, NEAR MIAMI, FL

LOCATION.--Lat 25°53'40", long 80°22'45", in NE¼ sec.30, T.52 S., R.40 E., Dade County, Hydrologic Unit 03090202, on downstream side of bridge at Pennsuco, 9.3 mi (15.0 km) upstream from salinity-control structure, and 14 mi (23 km) northwest of Miami (revised).

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1939 to June 1943. July 1926 to October 1939 (incomplete), and July 1943 to current year. 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 Sept. 28, 1940, nonrecording gage and Sept. 28, 1940 to Mar. 24, 1953, water-stage recorder, at same site at datum 0.50 ft (0.152 m) lower.

REMARKS.--Stage affected by regulation at salinity dam and by storage releases at control structures 31, 32, and 32A about 5 mi (8 km) upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 956 ft³/s (27.1 m³/s) Nov. 25, 26, 1940; maximum gage height, 9.07 ft (2.765 m), present datum, Oct. 12, 1947; minimum daily discharge, 44 ft³/s (1.25 m³/s) Mar. 30, 1943; minimum gage height, 0.05 ft (0.015 m), present datum, June 18, 1945.

EXTREMES FOR CURRENT YEAR.--Maximum gage height 3.61 ft (1.100 m) Sept. 4; minimum, 2.43 ft (0.741 m) May 16.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.95	2.56	2.70	2.55	2.60	2.69	2.76	2.65	2.75	3.19	2.70	3.08
2	2.92	2.58	2.62	2.57	2.61	2.70	2.70	2.59	2.71	3.28	2.78	3.08
3	2.88	2.59	2.59	2.63	2.52	2.76	2.62	2.59	2.68	3.18	2.79	3.09
4	2.85	2.65	2.60	2.62	2.58	2.83	2.60	2.67	2.68	3.16	2.77	3.22
5	2.79	2.70	2.60	2.59	2.69	2.76	2.59	2.71	2.70	3.12	2.83	3.51
6	2.77	2.60	2.73	2.57	2.64	2.73	2.63	2.67	2.74	3.08	3.22	3.45
7	2.77	2.62	2.76	2.58	2.62	2.69	2.65	2.66	2.74	3.05	3.12	3.40
8	2.74	2.57	2.76	2.61	2.67	2.68	2.65	2.60	2.69	3.04	3.02	3.34
9	2.75	2.60	2.75	2.73	2.74	2.95	2.66	2.61	2.68	3.03	2.93	3.30
10	2.76	2.62	2.83	2.74	2.66	3.01	2.65	2.58	2.64	2.98	2.87	3.27
11	2.75	2.59	2.79	2.62	2.63	2.88	2.61	2.58	2.63	2.91	2.89	3.21
12	2.72	2.56	2.78	2.63	2.61	2.82	2.60	2.57	2.70	2.85	2.88	3.16
13	2.69	2.61	2.79	2.75	2.60	2.77	2.59	2.60	2.91	2.82	2.87	3.13
14	2.67	2.63	2.76	2.77	2.59	2.77	2.59	2.61	3.07	2.81	2.90	3.19
15	2.69	2.63	2.67	2.71	2.54	2.78	2.69	2.54	2.95	2.78	3.01	3.26
16	2.69	2.64	2.71	2.63	2.51	2.76	2.63	2.47	2.88	2.76	3.02	3.29
17	2.80	2.61	2.85	2.58	2.55	2.73	2.59	2.60	2.83	2.75	3.01	3.27
18	2.76	2.63	2.82	2.51	2.76	2.71	2.59	2.94	2.91	2.80	3.01	3.22
19	2.84	2.61	2.77	2.58	2.95	2.71	2.61	3.21	3.09	2.74	3.10	3.17
20	2.92	2.53	2.75	2.90	2.84	2.70	2.59	3.15	3.06	2.74	3.12	3.17
21	2.86	2.51	2.68	2.79	2.87	2.68	2.65	3.01	3.03	2.79	3.11	3.14
22	2.80	2.72	2.60	2.75	2.77	2.76	2.59	2.89	3.17	2.85	3.04	3.13
23	2.73	2.72	2.63	2.69	2.76	2.80	2.72	2.81	3.18	2.91	3.13	3.15
24	2.66	3.12	2.62	2.64	2.88	2.79	3.00	2.75	3.11	2.84	3.35	3.11
25	2.63	3.06	2.64	2.63	2.81	2.68	2.89	2.73	3.15	2.74	3.26	3.17
26	2.61	2.94	2.63	2.59	2.80	2.66	2.79	2.77	3.30	2.69	3.20	3.22
27	2.63	2.87	2.57	2.52	2.71	2.64	2.73	2.83	3.33	2.68	3.16	3.23
28	2.62	2.78	2.54	2.48	2.64	2.69	2.69	2.94	3.30	2.67	3.10	3.27
29	2.59	2.74	2.54	2.47	---	2.75	2.69	2.91	3.22	2.68	3.06	3.22
30	2.57	2.76	2.56	2.58	---	2.67	2.66	2.83	3.13	2.71	3.06	3.26
31	2.54	---	2.55	2.59	---	2.72	---	2.76	---	2.66	3.13	---
MEAN	2.74	2.68	2.68	2.63	2.68	2.75	2.67	2.74	2.93	2.88	3.01	3.22
MAX	2.95	3.12	2.85	2.90	2.95	3.01	3.00	3.21	3.33	3.28	3.35	3.51
MIN	2.54	2.51	2.54	2.47	2.51	2.64	2.59	2.47	2.63	2.66	2.70	3.08

CAL YR 1977 MEAN 2.76 MAX 3.71 MIN 2.20
WTR YR 1978 MEAN 2.80 MAX 3.51 MIN 2.47

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02288200 MIAMI CANAL AT PALMETTO BYPASS, NEAR HIALEAH, FL

LOCATION.--Lat 25°51'11", long 80°19'22", on line between NE¼ sec.11, T.53 S., R.40 E., Dade County, Hydrologic Unit 03090202, on fender of east bridge of Palmetto bypass, 40 ft (12 m) streamward of left bank, 3 mi (5 km) northwest of Hialeah, 5 mi (8 km) upstream from salinity-control structure, 9 mi (14 km) downstream from control structure 32 and levee 30, and 10.6 mi (17.1 km) upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1959 to current year. Records of gage heights prior to October 1962 are available in files of the Geological Survey.

GAGE.--Water-stage and deflection-meter recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (State Department of Transportation bench mark).

REMARKS.--Records poor. Flow affected by regulation at salinity-control structure and by storage releases at control structures 31, 32, and 32A about 8 mi (13 km) upstream. Discharge computed from continuous velocity record obtained from recording deflection meter.

AVERAGE DISCHARGE.--18 years, 266 ft³/s (7.54 m³/s), 192,600 acre-ft/yr (237 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,510 ft³/s (42.8 m³/s) Oct. 8, 1960; maximum gage heights, 4.74 ft (1.445 m) Sept. 8, 1965; maximum reverse flow, 515 ft³/s (14.6 m³/s) Sept. 8, 1965; minimum gage height, 0.99 ft (0.302 m) May 31, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 387 ft³/s (11.0 m³/s) Sept. 5; maximum gage height, 3.08 ft (0.939 m) Sept. 17; minimum daily discharge, 80 ft³/s (2.27 m³/s) Nov. 5; minimum gage height, 2.23 ft (0.680 m) Jan. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126	128	162	155	146	123	180	226	211	169	139	280
2	122	110	159	154	157	123	187	227	204	185	146	291
3	115	98	153	159	152	140	196	213	206	162	172	294
4	112	104	150	162	125	170	198	203	199	156	160	295
5	110	80	139	157	135	151	200	223	199	148	193	387
6	115	90	183	159	137	129	195	225	204	140	321	384
7	120	110	159	151	126	135	222	218	209	135	297	382
8	122	125	145	164	133	130	225	210	201	126	278	369
9	125	110	148	176	187	160	227	199	196	129	260	349
10	120	123	181	167	151	180	217	195	195	122	241	363
11	115	111	144	162	139	160	232	208	191	119	228	341
12	118	92	149	146	141	150	221	201	201	132	237	351
13	120	110	158	198	137	140	242	222	222	112	213	346
14	120	117	164	233	139	130	220	218	240	137	222	346
15	123	100	162	195	126	124	234	206	231	139	258	344
16	120	120	160	172	127	125	255	204	222	140	265	342
17	115	128	215	174	129	120	243	183	211	129	272	308
18	108	132	228	178	185	130	240	255	215	152	273	287
19	105	140	191	147	248	145	228	280	228	156	250	313
20	120	145	163	253	206	155	217	268	226	146	276	323
21	121	150	163	209	214	185	218	249	220	130	271	332
22	122	139	170	179	197	198	214	240	223	173	282	338
23	125	185	151	191	183	200	211	227	221	186	309	349
24	145	160	157	175	213	207	240	215	218	180	354	348
25	158	148	163	174	190	190	280	206	221	175	349	354
26	176	165	166	170	175	170	256	204	249	165	335	365
27	150	190	162	158	172	160	249	227	258	149	324	341
28	120	210	165	167	154	155	233	234	253	151	306	362
29	86	220	164	158	---	158	226	219	245	154	307	354
30	100	195	159	129	---	160	226	219	202	169	317	317
31	110	---	164	139	---	175	---	211	---	165	318	---
TOTAL	3764	4035	5097	5311	4524	4778	6732	6835	6521	4631	8173	10155
MEAN	121	135	164	171	162	154	224	220	217	149	264	339
MAX	176	220	228	253	248	207	280	280	258	186	354	387
MIN	86	80	139	129	125	120	180	183	191	112	139	280
AC-FT	7470	8000	10110	10530	8970	9480	13350	13560	12930	9190	16210	20140

CAL YR 1977 TOTAL 55077 MEAN 151 MAX 347 MIN 59 AC-FT 109200
WTR YR 1978 TOTAL 70556 MEAN 193 MAX 387 MIN 80 AC-FT 139900

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02288200 MIAMI CANAL AT PALMETTO BYPASS, NEAR HIALEAH, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.70	2.52	2.50	2.38	2.45	2.54	2.50	2.44	2.56	2.86	2.46	2.69
2	2.60	2.52	2.46	2.38	2.47	2.54	2.45	2.34	2.51	2.92	2.55	2.70
3	2.52	2.53	2.40	2.42	2.37	2.56	2.39	2.36	2.49	2.87	2.52	2.70
4	2.50	2.53	2.40	2.43	2.42	2.59	2.37	2.45	2.50	2.86	2.54	2.69
5	2.50	2.54	2.42	2.40	2.50	2.55	2.41	2.45	2.55	2.85	2.54	2.91
6	2.48	2.55	2.52	2.38	2.47	2.53	2.45	2.43	2.55	2.81	2.76	2.86
7	2.46	2.50	2.56	2.40	2.45	2.49	2.47	2.45	2.54	2.82	2.70	2.85
8	2.45	2.50	2.58	2.44	2.53	2.49	2.49	2.43	2.51	2.81	2.66	2.85
9	2.47	2.53	2.58	2.53	2.51	2.63	2.50	2.42	2.54	2.80	2.60	2.80
10	2.47	2.56	2.61	2.46	2.47	2.69	2.52	2.39	2.49	2.74	2.55	2.82
11	2.46	2.57	2.62	2.45	2.46	2.61	2.42	2.37	2.46	2.67	2.61	2.79
12	2.45	2.57	2.63	2.47	2.42	2.56	2.50	2.39	2.54	2.61	2.59	2.77
13	2.47	2.57	2.64	2.52	2.44	2.55	2.38	2.37	2.70	2.61	2.59	2.74
14	2.50	2.56	2.57	2.49	2.43	2.57	2.50	2.38	2.76	2.57	2.58	2.75
15	2.57	2.59	2.47	2.50	2.36	2.59	2.45	2.36	2.71	2.51	2.60	2.79
16	2.47	2.60	2.51	2.41	2.34	2.55	2.45	2.26	2.69	2.45	2.61	2.82
17	2.45	2.62	2.59	2.39	2.36	2.54	2.40	2.51	2.67	2.43	2.62	2.88
18	2.47	2.61	2.54	2.32	2.52	2.51	2.43	2.66	2.77	2.48	2.60	2.83
19	2.50	2.60	2.56	2.43	2.61	2.51	2.45	2.78	2.90	2.43	2.63	2.79
20	2.49	2.58	2.55	2.63	2.57	2.50	2.43	2.74	2.87	2.48	2.58	2.73
21	2.48	2.48	2.49	2.55	2.59	2.44	2.44	2.69	2.79	2.56	2.65	2.72
22	2.45	2.54	2.39	2.57	2.51	2.47	2.51	2.64	2.87	2.54	2.64	2.65
23	2.47	2.58	2.47	2.49	2.51	2.50	2.45	2.55	2.91	2.58	2.70	2.66
24	2.49	2.57	2.46	2.46	2.59	2.53	2.61	2.51	2.86	2.54	2.81	2.64
25	2.50	2.56	2.47	2.45	2.56	2.45	2.63	2.52	2.86	2.44	2.73	2.61
26	2.53	2.55	2.48	2.37	2.56	2.44	2.57	2.55	2.91	2.43	2.73	2.71
27	2.55	2.53	2.42	2.31	2.47	2.45	2.52	2.60	2.92	2.44	2.73	2.70
28	2.56	2.52	2.40	2.28	2.44	2.45	2.47	2.70	2.93	2.42	2.71	2.77
29	2.55	2.50	2.39	2.28	---	2.51	2.51	2.67	2.87	2.42	2.68	2.73
30	2.55	2.54	2.37	2.43	---	2.44	2.47	2.58	2.83	2.44	2.67	2.77
31	2.54	---	2.35	2.43	---	2.46	---	2.53	---	2.41	2.73	---
MEAN	2.50	2.55	2.50	2.43	2.48	2.52	2.47	2.50	2.70	2.61	2.63	2.76
MAX	2.70	2.62	2.64	2.63	2.61	2.69	2.63	2.78	2.93	2.92	2.81	2.91
MIN	2.45	2.48	2.35	2.28	2.34	2.44	2.37	2.26	2.46	2.41	2.46	2.61

CAL YR 1977	MEAN 2.62	MAX 3.48	MIN 2.20
WTR YR 1978	MEAN 2.55	MAX 2.93	MIN 2.26

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02288600 MIAMI CANAL AT N.W. 36th STREET, MIAMI, FL

LOCATION.--Lat 25°48'29", long 80°15'44", in NE¼ sec.29, T.53 S., R.41 E., Dade County, Hydrologic Unit 03090202, or right bank at downstream end of N.W. 36th Street Bridge fender at Miami, 200 ft (61 m) upstream from salinity-control structure S-26.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1959 to current year.

GAGE.--Water-stage and deflection-meter recorder. Datum of gage is National Geodetic Vertical Datum of 1929. (Dade County bench mark).

REMARKS.--Records fair. 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 (23 km) upstream, and structure 26 downstream. Discharge computed from continuous velocity record obtained from recording deflection meter.

AVERAGE DISCHARGE.--19 years, 290 ft³/s (8.21 m³/s), 210,000 acre-ft/yr (259 hm³/r).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,900 ft³/s (53.8 m³/s) Oct. 2, 1959; maximum gage height, 5.14 ft (1.567 m) Sept. 8, 1965; maximum reverse flow, 1,400 ft³/s (39.6 m³/s), estimated, Sept 8, 1965, from hurricane tide; minimum gage height, -0.55 ft (-0.168 m) Apr. 26, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 577 ft³/s (16.3 m³/s) Aug. 6; maximum gage height, 2.96 ft (0.902 m) Sept. 17; minimum daily discharge, 40 ft³/s (1.13 m³/s) Apr. 21; minimum gage height, 1.12 ft (0.341 m) Oct. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	347	182	304	242	63	278	261	199	242	302	204	379
2	320	139	305	235	166	268	262	217	216	329	318	394
3	309	121	298	251	222	367	273	147	213	312	349	388
4	283	184	290	245	198	416	271	116	236	330	307	421
5	265	200	294	232	261	367	287	174	236	295	315	517
6	273	243	290	223	272	315	202	173	232	293	577	496
7	280	180	305	221	255	349	255	132	247	286	499	500
8	272	208	285	258	230	343	253	129	228	256	438	512
9	246	193	290	269	369	454	259	139	210	259	415	507
10	249	138	357	200	348	460	179	135	209	242	350	490
11	246	163	321	175	288	406	127	198	205	246	312	448
12	240	185	298	166	259	381	145	199	244	252	333	450
13	238	142	265	291	197	358	72	251	271	194	317	406
14	244	189	315	363	247	320	136	244	327	232	313	389
15	236	194	321	332	312	282	221	194	336	238	360	503
16	243	198	251	315	284	255	233	223	270	257	345	446
17	250	198	324	291	280	269	192	98	259	242	346	444
18	190	214	365	295	361	267	164	358	358	265	344	471
19	189	179	334	211	514	257	137	493	378	270	342	455
20	208	292	288	432	417	260	86	478	340	197	377	436
21	214	342	285	344	438	322	40	376	371	214	353	446
22	269	204	308	276	412	324	107	339	357	270	381	435
23	291	203	237	323	388	328	51	330	408	282	429	460
24	253	526	262	315	383	316	360	276	333	262	493	433
25	315	569	260	294	375	299	351	269	335	259	470	424
26	252	469	270	331	342	295	258	262	331	234	425	489
27	155	371	284	332	393	238	237	323	352	207	400	415
28	127	381	275	331	325	293	186	322	333	216	385	451
29	133	330	257	264	---	257	198	243	299	213	384	414
30	204	306	238	114	---	263	199	261	320	217	406	414
31	158	---	245	142	---	272	---	240	---	211	411	---
TOTAL	7499	7443	9021	8313	8599	9879	6002	7538	8696	7882	11698	13433
MEAN	242	248	291	268	307	319	200	243	290	254	377	448
MAX	347	569	365	432	514	460	360	493	408	330	577	517
MIN	127	121	237	114	63	238	40	98	205	194	204	379
AC-FT	14870	14760	17890	16490	17060	19590	11900	14950	17250	15630	23200	26640

CAL YR 1977	TOTAL	91606.00	MEAN 251	MAX 668	MIN .00	AC-FT 181700
WTR YR 1978	TOTAL	106003.00	MEAN 290	MAX 577	MIN 40	AC-FT 210300

EVERGLADES AND SOUTHEASTERN COASTAL AREA

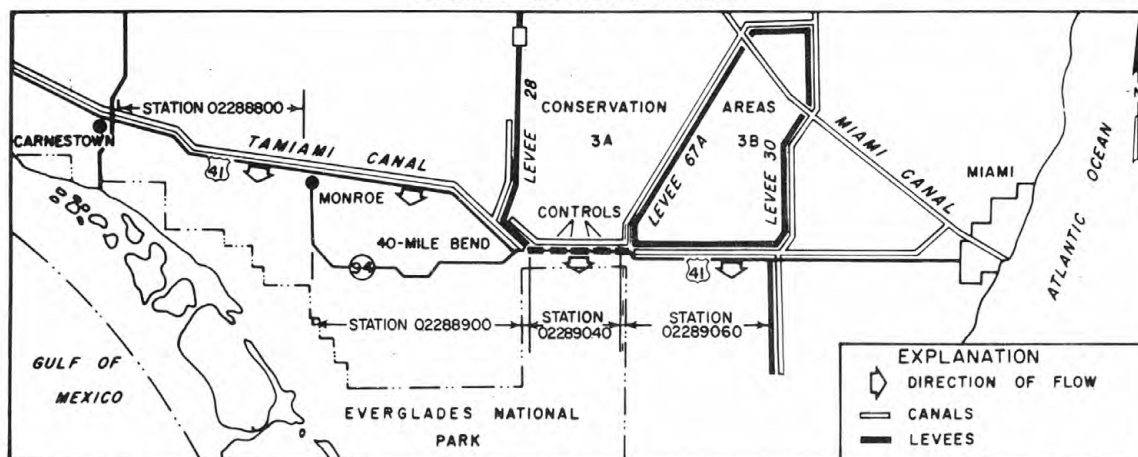
02288600 MIAMI CANAL AT N.W. 36th STREET, MIAMI, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

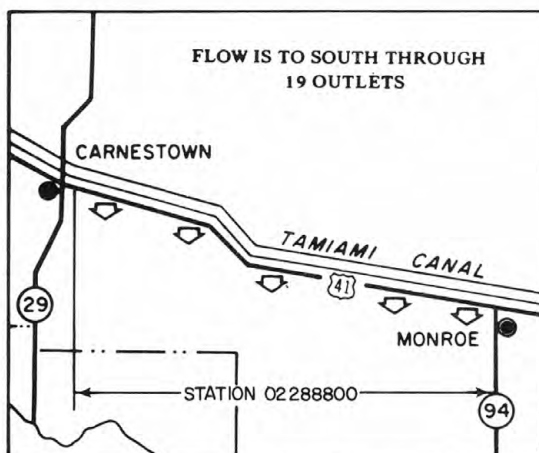
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.43	2.38	2.34	2.28	2.41	2.46	2.36	2.32	2.33	2.36	2.35	2.37
2	2.42	2.42	2.28	2.32	2.40	2.45	2.31	2.20	2.28	2.38	2.39	2.40
3	2.38	2.42	2.23	2.35	2.26	2.41	2.26	2.30	2.26	2.35	2.30	2.38
4	2.37	2.39	2.24	2.36	2.34	2.39	2.22	2.42	2.26	2.34	2.38	2.39
5	2.35	2.41	2.27	2.35	2.41	2.41	2.22	2.38	2.30	2.40	2.38	2.37
6	2.30	2.25	2.36	2.32	2.38	2.42	2.36	2.33	2.30	2.34	2.35	2.34
7	2.29	2.39	2.40	2.33	2.37	2.35	2.39	2.40	2.29	2.32	2.34	2.35
8	2.33	2.33	2.42	2.34	2.46	2.31	2.40	2.39	2.28	2.41	2.33	2.34
9	2.35	2.37	2.44	2.44	2.32	2.37	2.41	2.40	2.36	2.36	2.30	2.35
10	2.40	2.42	2.42	2.38	2.34	2.40	2.38	2.43	2.30	2.37	2.33	2.33
11	2.38	2.42	2.42	2.34	2.34	2.35	2.31	2.37	2.29	2.36	2.41	2.35
12	2.34	2.38	2.47	2.36	2.32	2.34	2.30	2.36	2.36	2.33	2.37	2.33
13	2.35	2.43	2.50	2.33	2.31	2.34	2.35	2.31	2.48	2.39	2.38	2.29
14	2.32	2.44	2.46	2.30	2.31	2.42	2.28	2.33	2.33	2.34	2.40	2.38
15	2.40	2.47	2.32	2.35	2.23	2.48	2.29	2.32	2.33	2.29	2.38	2.34
16	2.35	2.47	2.40	2.28	2.22	2.47	2.20	2.21	2.39	2.27	2.31	2.41
17	2.27	2.45	2.46	2.27	2.25	2.48	2.22	2.50	2.43	2.25	2.37	2.46
18	2.39	2.49	2.33	2.17	2.33	2.44	2.25	2.43	2.41	2.29	2.34	2.35
19	2.41	2.41	2.39	2.27	2.33	2.43	2.33	2.39	2.43	2.26	2.39	2.35
20	2.32	2.27	2.42	2.36	2.36	2.42	2.34	2.42	2.44	2.37	2.31	2.42
21	2.35	2.26	2.34	2.37	2.37	2.29	2.45	2.47	2.36	2.43	2.36	2.38
22	2.37	2.40	2.25	2.41	2.33	2.34	2.32	2.42	2.41	2.36	2.32	2.34
23	2.34	2.44	2.37	2.36	2.35	2.37	2.50	2.32	2.41	2.41	2.34	2.31
24	2.35	2.48	2.36	2.33	2.43	2.40	2.40	2.40	2.37	2.35	2.31	2.31
25	2.36	2.43	2.36	2.35	2.43	2.34	2.33	2.42	2.39	2.29	2.28	2.28
26	2.36	2.39	2.35	2.27	2.42	2.33	2.42	2.43	2.35	2.29	2.30	2.30
27	2.46	2.42	2.32	2.20	2.31	2.36	2.36	2.40	2.35	2.29	2.34	2.32
28	2.48	2.32	2.28	2.18	2.32	2.34	2.34	2.48	2.37	2.31	2.36	2.37
29	2.39	2.35	2.27	2.17	---	2.36	2.34	2.40	2.37	2.32	2.31	2.35
30	2.35	2.41	2.30	2.41	---	2.29	2.31	2.31	2.39	2.31	2.30	2.43
31	2.34	---	2.29	2.36	---	2.30	---	2.34	---	2.29	2.35	---
MEAN	2.36	2.40	2.36	2.32	2.34	2.38	2.33	2.37	2.35	2.34	2.34	2.36
MAX	2.48	2.49	2.50	2.44	2.46	2.48	2.50	2.50	2.48	2.43	2.41	2.46
MIN	2.27	2.25	2.23	2.17	2.22	2.29	2.20	2.20	2.26	2.25	2.28	2.28

CAL YR 1977 MEAN 2.38 MAX 2.64 MIN 2.14
WTR YR 1978 MEAN 2.36 MAX 2.50 MIN 2.17

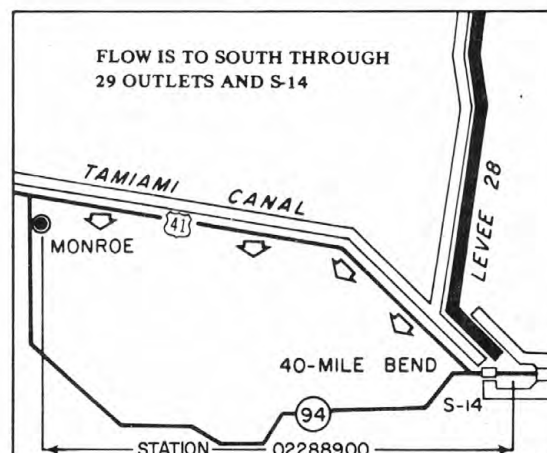
TAMIAMI CANAL OUTLETS



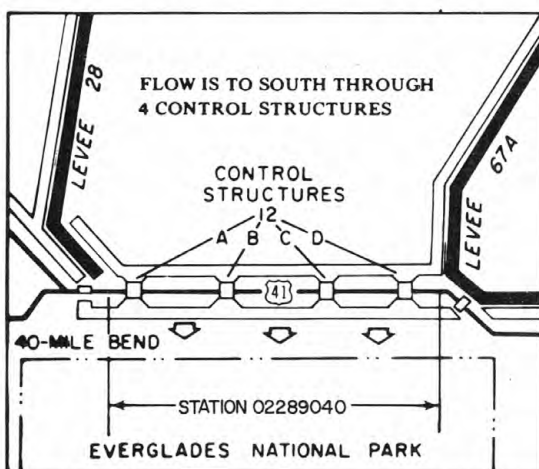
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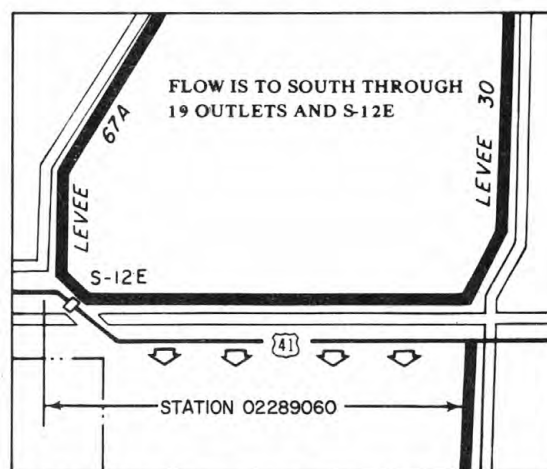
STATION 02288800 MONROE TO CARNESTOWN



STATION 02288900 40-MILE BEND TO MONROE

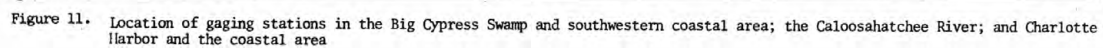


STATION 02289040 LEVEE 67-A TO 40-MILE BEND



STATION 02289060 LEVEE 30 TO LEVEE 67-A

Figure 10. Tamiami Canal Outlets.



SOUTHERN FLORIDA

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02288780 TAMIAHI CANAL AT BRIDGE 77, NEAR CARNESTOWN, FL

LOCATION.--Lat 25°53'55", long 81°21'25", in sec.31, T.52 S., R.30 E., Collier County, Hydrologic Unit 03090204 on south bank, 50 ft (15 m) east of bridge 77 on U.S. Highway 41, and 1 mi (2 km) east of Carnestown.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1960 to current year (gage heights). Records of gage height 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 (State Department of Transportation bench mark). Prior to Oct. 1, 1964, at datum 3.14 ft (0.957 m) lower.

REMARKS.--Station is one of several located at various points along Tamiami Canal. Gage is primarily for water-level records, but is also an auxiliary gage in determining flow through Tamiami Canal outlets. Stage affected by tide during low flow.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 4.42 ft (1.347 m) present datum, Sept. 11, 1960; minimum, -1.15 ft (-0.351 m) Feb. 24, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 2.50 ft (0.762 m) Sept. 10; minimum, -0.41 ft (-0.125 m) Dec. 23.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.44	.74	.98	.80	.31	1.35	.78	1.14	1.12	1.77	1.67	2.19
2	2.39	1.07	.92	.86	.54	1.24	.93	1.15	1.04	1.80	1.69	2.28
3	2.29	1.27	.65	.47	.64	1.46	1.00	1.20	1.01	1.78	1.72	2.30
4	2.19	1.31	.60	.35	.56	1.55	.93	1.49	1.02	1.75	1.76	2.31
5	2.02	1.21	.93	.61	.39	1.22	1.00	1.55	1.00	1.70	1.76	2.35
6	1.89	1.27	1.17	.80	.68	1.16	1.13	1.19	1.04	1.65	1.76	2.36
7	1.79	1.31	.35	1.04	.69	1.34	1.05	1.02	1.07	1.68	1.75	2.43
8	1.78	1.33	.29	1.17	.77	1.42	1.07	1.15	1.17	1.77	1.74	2.46
9	1.84	1.35	.84	1.18	1.31	1.62	1.14	1.23	1.22	1.72	1.71	2.43
10	1.87	1.38	.78	.65	1.10	1.72	1.12	1.17	1.12	1.63	1.69	2.44
11	1.89	.88	.39	.46	.92	1.61	1.24	.96	1.28	1.60	1.72	2.47
12	1.89	.44	.60	.80	.99	1.54	1.01	.79	1.44	1.75	1.73	2.45
13	1.87	.72	.84	1.15	1.13	1.47	1.10	.96	1.33	1.77	1.78	2.41
14	1.72	.62	1.07	1.22	1.01	1.45	.93	.95	1.20	1.73	1.81	2.34
15	1.64	.95	1.09	.70	.66	1.41	.72	.86	1.16	1.71	1.85	2.30
16	1.62	.96	.91	.31	1.03	1.30	.72	.87	1.07	1.75	1.86	2.38
17	1.46	1.11	.97	.66	.89	.93	.84	.92	.90	1.82	1.92	2.43
18	1.34	.86	.98	.67	1.29	.64	1.02	.93	.92	1.82	2.00	2.41
19	1.38	.74	.57	.92	1.45	.67	1.24	.69	1.44	1.79	2.02	2.36
20	1.30	.80	.85	1.12	1.18	.95	1.23	.72	1.71	1.81	2.02	2.29
21	1.26	.82	1.03	.65	1.15	1.29	1.06	.83	1.75	1.80	1.94	2.29
22	1.18	.84	.56	.55	1.03	1.34	.94	.81	1.83	1.79	1.86	2.23
23	1.22	1.04	.30	.61	.92	1.32	.91	.85	1.89	1.78	1.90	2.17
24	1.45	1.19	.50	.80	1.17	1.41	1.32	1.00	1.90	1.77	2.06	2.11
25	1.53	1.28	.98	1.24	1.26	1.46	1.35	1.00	1.87	1.75	2.03	2.07
26	1.56	1.06	.96	1.18	1.32	1.45	1.38	1.05	1.84	1.73	1.98	2.04
27	1.58	.63	.54	.65	1.32	1.41	1.16	1.16	1.77	1.78	1.95	1.99
28	1.48	.65	.44	.42	1.31	1.18	.82	.95	1.69	1.76	1.90	1.95
29	1.19	.69	.52	.31	---	1.12	.88	.91	1.66	1.69	1.91	1.95
30	1.11	.81	.81	.24	---	.93	1.01	.93	1.70	1.67	2.00	1.93
31	.87	---	.90	.28	---	.80	---	1.06	---	1.66	2.08	---
MEAN	1.65	.98	.75	.74	.97	1.28	1.03	1.02	1.37	1.74	1.86	2.27
MAX	2.44	1.38	1.17	1.24	1.45	1.72	1.38	1.55	1.90	1.82	2.08	2.47
MIN	.87	.44	.29	.24	.31	.64	.72	.69	.90	1.60	1.67	1.93

CAL YR 1977 MEAN 1.19 MAX 2.60 MIN -.34
WTR YR 1978 MEAN 1.31 MAX 2.47 MIN .24

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 (11 km) east of Carnestown, and 10 mi (16 km) 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 (3 km) east at datum 0.93 ft (0.283 m) lower. May 2, 1963, to Feb. 10, 1965, at site on west bank of unnamed lateral 30 ft (9 m) downstream.

REMARKS.--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 (88 km) west of Miami, to a point 1 mi (1.6 km) east of the intersection with State Highway 29 at Carnestown. Flow at westernmost outlets slightly affected by tide.

AVERAGE DISCHARGE.--18 years, 365 ft³/s (10.3 m³/s), 264,200 acre-ft/yr (326 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 6,010 ft³/s (170 m³/s) Sept. 13, 1960; maximum gage height, 5.90 ft (1.798 m) present datum Sept. 14, 1960; no flow for many days in some years; minimum gage height observed, -0.43 ft (-0.131 m) present datum May 30, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,390 ft³/s (39.4 m³/s) Oct. 1; maximum gage height, 4.07 ft (1.241 m) Aug. 25, 26; minimum daily discharge, 0.02 ft³/s (0.001 m³/s) May 23; 0.79 ft (0.241 m) May 23 (tide affected).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1390	51	35	45	50	108	175	5.6	4.1	745	51	724
2	1210	45	32	48	45	109	138	5.8	5.2	707	58	725
3	1050	42	27	65	42	156	109	5.1	20	597	111	664
4	906	39	20	67	40	231	82	7.3	21	490	222	580
5	739	38	17	59	34	210	61	16	19	397	334	575
6	606	34	46	56	33	203	49	15	42	349	336	668
7	511	31	77	56	29	199	38	9.4	84	481	320	781
8	427	26	60	62	34	196	29	6.4	85	630	333	784
9	354	23	52	98	117	378	22	5.3	85	639	344	773
10	294	20	94	85	100	528	16	4.5	95	627	366	758
11	244	19	79	75	84	531	12	2.7	229	648	398	758
12	204	16	64	68	72	493	11	2.3	280	759	422	757
13	182	13	60	89	64	467	9.8	6.1	320	793	511	708
14	158	13	60	111	61	442	8.4	5.0	276	770	639	653
15	138	13	62	99	56	417	7.2	2.8	258	783	630	604
16	121	14	60	87	53	388	14	1.5	233	751	567	547
17	108	15	70	81	61	358	11	.84	195	681	530	495
18	96	15	92	76	97	326	9.4	.89	217	579	498	445
19	89	13	82	86	158	304	11	.18	356	512	487	398
20	80	12	72	174	139	290	11	.29	427	490	485	353
21	74	11	67	147	147	279	7.8	.20	465	389	472	362
22	73	14	61	129	144	267	5.4	.03	581	304	444	364
23	79	16	53	117	137	255	3.8	.02	725	249	485	372
24	76	37	50	108	129	252	18	.08	672	206	726	386
25	76	66	54	103	122	268	30	.48	581	166	792	385
26	78	58	68	98	116	264	24	1.6	486	135	763	369
27	78	47	63	87	111	247	18	4.1	421	113	690	330
28	75	41	52	78	108	242	12	7.7	402	88	610	293
29	69	39	46	71	---	264	8.2	8.2	552	74	541	282
30	64	38	44	63	---	240	6.0	6.2	681	68	550	272
31	57	---	46	57	---	202	---	4.5	---	58	683	---
TOTAL	9706	859	1765	2645	2383	9114	957.0	136.11	8817.3	14278	14398	16165
MEAN	313	28.6	56.9	85.3	85.1	294	31.9	4.39	294	461	464	539
MAX	1390	66	94	174	158	531	175	16	725	793	792	784
MIN	57	11	17	45	29	108	3.8	.02	4.1	58	51	272
AC-FT	19250	1700	3500	5250	4730	18080	1900	270	17490	28320	28560	32060

CAL YR 1977 TOTAL 122239.72 MEAN 335 MAX 1950 MIN .00 AC-FT 242500
WTR YR 1978 TOTAL 81223.41 MEAN 223 MAX 1390 MIN .02 AC-FT 161100

02288800 TAMiami CANAL OUTLETS, MONROE TO CARNESTOWN, FL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.55	1.97	1.62	1.53	1.45	1.77	1.71	1.22	1.20	3.56	2.52	4.00
2	3.47	1.94	1.59	1.55	1.43	1.75	1.66	1.23	1.23	3.54	2.56	4.00
3	3.38	1.92	1.55	1.66	1.41	1.89	1.61	1.20	1.56	3.43	2.84	3.92
4	3.30	1.92	1.47	1.66	1.40	2.10	1.56	1.28	1.55	3.29	3.19	3.82
5	3.17	1.92	1.44	1.60	1.37	2.02	1.51	1.50	1.50	3.17	3.44	3.81
6	3.06	1.90	1.71	1.58	1.36	1.97	1.47	1.49	1.72	3.11	3.44	3.92
7	2.96	1.87	2.00	1.56	1.33	1.94	1.42	1.36	1.98	3.34	3.41	4.05
8	2.88	1.84	1.90	1.59	1.38	1.91	1.37	1.26	1.97	3.55	3.44	4.05
9	2.79	1.81	1.85	1.78	1.92	2.27	1.33	1.22	1.95	3.58	3.46	4.05
10	2.72	1.78	2.11	1.72	1.86	2.50	1.29	1.18	1.97	3.58	3.50	4.01
11	2.65	1.75	2.05	1.65	1.79	2.47	1.25	1.09	2.39	3.62	3.55	4.01
12	2.58	1.67	1.97	1.61	1.75	2.40	1.22	1.05	2.49	3.76	3.59	4.01
13	2.52	1.61	1.92	1.70	1.71	2.34	1.21	1.26	2.59	3.82	3.72	3.98
14	2.45	1.57	1.91	1.81	1.68	2.29	1.18	1.21	2.52	3.81	3.89	3.94
15	2.37	1.55	1.91	1.76	1.63	2.25	1.15	1.10	2.50	3.84	3.88	3.90
16	2.31	1.55	1.88	1.70	1.60	2.20	1.35	1.01	2.44	3.83	3.80	3.85
17	2.26	1.55	1.92	1.66	1.66	2.13	1.28	.95	2.39	3.76	3.75	3.80
18	2.20	1.53	2.02	1.63	1.82	2.06	1.25	.96	2.47	3.65	3.71	3.75
19	2.16	1.49	1.96	1.67	2.07	2.01	1.30	.88	2.79	3.59	3.69	3.69
20	2.11	1.44	1.89	2.02	2.00	1.97	1.30	.90	2.93	3.57	3.69	3.63
21	2.08	1.41	1.85	1.93	2.02	1.94	1.23	.89	3.02	3.43	3.68	3.67
22	2.07	1.46	1.79	1.87	1.99	1.91	1.15	.86	3.20	3.29	3.64	3.69
23	2.10	1.47	1.72	1.81	1.96	1.87	1.08	.84	3.39	3.19	3.69	3.73
24	2.08	1.69	1.68	1.78	1.93	1.86	1.49	.86	3.35	3.09	4.00	3.78
25	2.08	1.92	1.69	1.75	1.89	1.88	1.67	.92	3.26	2.99	4.07	3.80
26	2.09	1.85	1.78	1.73	1.86	1.86	1.60	1.03	3.15	2.91	4.04	3.79
27	2.08	1.75	1.72	1.68	1.83	1.81	1.52	1.18	3.07	2.84	3.96	3.74
28	2.06	1.67	1.64	1.63	1.80	1.80	1.40	1.35	3.06	2.74	3.87	3.69
29	2.05	1.63	1.56	1.58	---	1.84	1.30	1.36	3.30	2.67	3.78	3.64
30	2.03	1.64	1.54	1.53	---	1.78	1.23	1.29	3.48	2.63	3.79	3.60
31	2.00	---	1.54	1.49	---	1.74	---	1.21	---	2.57	3.95	---
MEAN	2.50	1.70	1.78	1.68	1.71	2.02	1.37	1.13	2.48	3.35	3.60	3.84
MAX	3.55	1.97	2.11	2.02	2.07	2.50	1.71	1.50	3.48	3.84	4.07	4.05
MIN	2.00	1.41	1.44	1.49	1.33	1.74	1.08	.84	1.20	2		

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02288860 TAMAMI CANAL AT BRIDGE 96, AT MONROE, FL

LOCATION.--Lat 25°51'50", long 81°06'00", in NW¼ sec.14, T.53 S., R.32E., Collier County, Hydrologic Unit 03090204, near south bank, 40 ft (12 m) east of bridge 96 on U.S. Highway 41, at Monroe. Prior to July 16, 1973, at site 110 ft (34 m) east.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1940 to current year (twice monthly), incomplete; gage heights. Records of gage heights prior to October 1962 are available in files of the Geological Survey.

GAGE.--Nonrecording gage read twice monthly. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Station is one of several located at various points along Tamiami Canal and is primarily for water-level observations

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height Observed, 8.10 ft (2.496 m) Sept. 12, 1960; minimum observed, 1.61 ft (0.491 m) May 29, 1975.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	DATE	TIME	STREAM STAGE (FT ABOVE DATUM)
OCT , 1977			APR , 1978		
12...	1045	7.12	27...	0900	5.20
28...	0930	6.30	MAY		
NOV			11...	1030	5.55
29...	1010	4.79	30...	1115	5.62
DEC			JUN		
12...	0840	5.14	12...	1000	5.49
29...	0700	4.91	29...	0820	7.24
JAN , 1978			JUL		
13...	0715	5.10	10...	0700	7.48
30...	1100	5.40	28...	0800	7.01
FEB			AUG		
13...	1000	5.82	11...	0900	7.04
27...	0840	6.65	30...	0915	7.66
MAR			SEP		
13...	1100	7.22	12...	0730	7.22
30...	0920	5.76	28...	0900	6.30
APR					
11...	0840	5.08			

SOUTHERN FLORIDA

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02288900 TAMIA MI CANAL OUTLETS, 40-MILE BEND TO MONROE, FL

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 (8 m) east of bridge 105 on U.S. Highway 41, and 54 mi (87 km) west of Miami, Dade County.

DRAINAGE AREA.--Indeterminate.

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 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 (0.113 m) higher.

AVERAGE DISCHARGE.--38 years, 263 ft³/s (7.45 m³/s) 190,400 acre-ft/yr (235 hm³/yr).

REMARKS.--Records good except those below 20 ft³/s (0.57 m³/s) and above 1,700 ft³/s (48.1 m³/s), 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 ft³/s (108 m³/s) July 2, 1966, from rating curve extended above 1,700 ft³/s (48.1 m³/s); maximum gage height, 10.01 ft (3.051 m) Oct. 20, 1947 (present datum); no flow for many days in some years; minimum gage height, 2.65 ft (0.808 m) May 26, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,070 ft³/s (30.3 m³/s) July 17; maximum gage height, 8.51 ft (2.594 m) July 16; minimum daily discharge, 14 ft³/s (0.40 m³/s) May 17; minimum gage height, 6.41 ft (1.954 m) May 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1000	50	37	44	101	335	118	51	106	656	504	370
2	882	49	36	45	99	317	107	48	100	631	548	337
3	799	54	35	48	97	342	95	44	91	632	629	295
4	723	81	34	49	96	430	86	42	86	636	583	312
5	650	98	33	49	97	422	76	58	76	622	558	404
6	572	103	36	49	96	388	68	54	71	667	536	446
7	516	110	41	49	95	373	63	48	68	643	564	573
8	467	114	40	48	97	352	57	42	66	628	529	576
9	424	120	40	56	153	516	51	38	63	582	490	522
10	373	120	48	57	156	651	47	35	59	534	441	471
11	336	113	46	55	154	640	42	32	55	524	419	421
12	306	101	45	55	148	609	41	29	54	604	473	390
13	256	93	44	56	142	591	40	26	56	594	514	376
14	208	85	44	61	143	560	39	23	55	727	485	380
15	177	76	43	61	146	522	39	20	54	956	443	365
16	146	71	43	60	144	489	43	17	53	1030	451	355
17	122	68	47	60	152	443	40	14	53	1070	600	346
18	109	64	53	60	210	404	44	56	55	984	570	320
19	101	61	53	64	314	360	53	170	68	911	526	307
20	91	57	52	96	331	333	51	230	72	851	512	285
21	82	53	52	101	382	303	47	204	81	763	475	264
22	78	51	51	103	400	286	43	200	101	713	433	257
23	78	48	49	104	407	254	42	179	183	713	536	244
24	71	48	49	106	401	235	65	157	223	651	775	237
25	67	48	48	106	394	210	76	139	273	587	831	244
26	63	46	49	108	398	193	76	140	363	525	743	296
27	60	43	47	108	370	169	71	153	478	483	660	300
28	56	40	46	107	368	159	64	162	575	449	580	283
29	52	38	44	106	---	148	60	162	652	665	513	328
30	51	37	44	106	---	140	55	141	670	611	461	502
31	51	---	44	103	---	122	---	121	---	556	423	---
TOTAL	8967	2140	1373	2280	6091	11296	1799	2835	4960	21198	16805	10806
MEAN	289	71.3	44.3	73.5	218	364	60.0	91.5	165	684	542	360
MAX	1000	120	53	108	407	651	118	230	670	1070	831	576
MIN	51	37	33	44	95	122	39	14	53	449	419	237
AC-FT	17790	4240	2720	4520	12080	22410	3570	5620	9840	42050	33330	21430

CAL YR 1977	TOTAL	54237.74	MEAN	149	MAX	1350	MIN	.00	AC-FT	107600
WTR YR 1978	TOTAL	90550.00	MEAN	248	MAX	1070	MIN	14	AC-FT	179600

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA
02288900 TAMIAHI CANAL OUTLETS, 40-MILE BEND TO MONROE, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.41	7.58	7.70	7.65	7.89	8.07	7.94	7.36	7.92	8.28	8.19	8.18
2	8.37	7.55	7.68	7.66	7.88	8.06	7.92	7.31	7.92	8.27	8.23	8.15
3	8.34	7.60	7.66	7.70	7.87	8.08	7.90	7.24	7.92	8.27	8.29	8.13
4	8.30	7.82	7.64	7.72	7.86	8.16	7.87	7.20	7.92	8.28	8.27	8.14
5	8.27	7.88	7.62	7.71	7.87	8.15	7.85	7.38	7.91	8.27	8.26	8.22
6	8.23	7.90	7.67	7.70	7.87	8.14	7.82	7.33	7.90	8.30	8.25	8.26
7	8.20	7.91	7.75	7.69	7.85	8.12	7.79	7.24	7.92	8.28	8.28	8.34
8	8.17	7.92	7.74	7.68	7.86	8.11	7.76	7.15	7.93	8.28	8.27	8.35
9	8.14	7.92	7.74	7.77	8.03	8.23	7.73	7.06	7.94	8.26	8.24	8.32
10	8.10	7.91	7.84	7.77	8.04	8.32	7.69	6.98	7.93	8.23	8.22	8.29
11	8.07	7.90	7.83	7.75	8.04	8.31	7.65	6.92	7.93	8.22	8.21	8.26
12	8.04	7.88	7.80	7.74	8.03	8.30	7.61	6.85	7.94	8.26	8.25	8.24
13	8.02	7.86	7.78	7.75	8.01	8.29	7.57	6.80	7.93	8.26	8.28	8.22
14	7.98	7.84	7.77	7.79	8.01	8.28	7.53	6.73	7.89	8.32	8.26	8.20
15	7.94	7.82	7.76	7.78	7.99	8.26	7.51	6.63	7.84	8.42	8.23	8.18
16	7.91	7.81	7.74	7.77	7.98	8.24	7.55	6.54	7.80	8.44	8.23	8.16
17	7.88	7.81	7.79	7.75	7.98	8.22	7.48	6.46	7.76	8.45	8.33	8.13
18	7.84	7.80	7.86	7.75	8.05	8.19	7.52	7.01	7.75	8.42	8.31	8.10
19	7.82	7.79	7.86	7.77	8.15	8.16	7.62	7.86	7.84	8.39	8.29	8.07
20	7.79	7.77	7.84	7.96	8.16	8.14	7.57	7.97	7.84	8.36	8.28	8.04
21	7.76	7.75	7.82	7.98	8.18	8.12	7.50	7.95	7.86	8.32	8.25	8.00
22	7.76	7.75	7.80	7.98	8.19	8.11	7.42	7.96	7.92	8.30	8.22	7.98
23	7.77	7.74	7.78	7.97	8.17	8.08	7.37	7.94	8.09	8.29	8.28	7.95
24	7.75	7.75	7.77	7.97	8.16	8.06	7.63	7.91	8.12	8.26	8.42	7.93
25	7.73	7.78	7.75	7.96	8.14	8.04	7.70	7.90	8.13	8.22	8.44	7.92
26	7.72	7.78	7.75	7.96	8.13	8.02	7.67	7.91	8.19	8.19	8.40	7.97
27	7.69	7.75	7.72	7.95	8.12	7.99	7.61	7.94	8.23	8.15	8.36	7.95
28	7.67	7.73	7.70	7.94	8.10	7.97	7.55	7.97	8.27	8.12	8.32	7.92
29	7.64	7.71	7.71	7.92	---	7.97	7.48	7.99	8.28	8.26	8.28	7.97
30	7.62	7.71	7.69	7.91	---	7.95	7.42	7.96	8.29	8.25	8.24	8.12
31	7.60	---	7.66	7.90	---	7.94	---	7.94	---	8.21	8.21	---
MEAN	7.95	7.79	7.75	7.82	8.02	8.13	7.64	7.40	7.97	8.28	8.28	8.12
MAX	8.41	7.92	7.86	7.98	8.19	8.32	7.94	7.99	8.29	8.45	8.44	8.35
MIN	7.60	7.55	7.62	7.65	7.85	7.94	7.37	6.46	7.75	8.12	8.19	7.92

CAL YR 1977 MEAN 6.96 MAX 8.54 MIN 3.54
WTR YR 1978 MEAN 7.93 MAX 8.45 MIN 6.46

SOUTHERN FLORIDA

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02288945 TAMAMI CANAL AT BRIDGE 115, NEAR MIAMI, FL

LOCATION.--Lat 25°49'30", long 80°53'45", in sec.26, T.53 S., R.34 E., Collier County, Hydrologic Unit 03090204, on north side of bridge 115 on U.S. Highway 41, and 48 mi (77.2 km) west of Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--March 1943 to current year (twice monthly), incomplete; gage heights. Records of gage heights prior to October 1962 are available in files of the Geological Survey.

GAGE.--Nonrecording gage read twice monthly. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Station is one of several located at various points along Tamiami Canal and is primarily for water-level observations.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 9.95 ft (3.033 m) Oct. 20, 1947; minimum observed, 3.84 ft (1.170 m) May 6, 1975.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	DATE	TIME	STREAM STAGE (FT ABOVE DATUM)
OCT , 1977			APR , 1978		
28...	0930	8.16	27...	0900	8.25
NOV			MAY		
10...	1030	8.27	11...	1030	7.94
29...	1120	8.10	30...	1115	8.27
DEC			JUN		
12...	0840	8.14	12...	1000	8.07
29...	0700	8.12	29...	0820	8.75
JAN , 1978			JUL		
13...	0715	8.08	10...	0700	8.54
30...	1100	8.19	28...	0800	8.49
FEB			AUG		
13...	1000	8.26	11...	0900	8.60
27...	0940	8.46	30...	0915	8.59
MAR			SEP		
13...	1100	8.60	12...	0730	8.51
APR			28...	0900	8.38
11...	0840	8.12			

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

02288990 TAMAMI CANAL AT 40-MILE BEND, NEAR MIAMI, FL

LOCATION.--Lat 25°45'50", long 80°49'50", in SE¼ sec.16, T.54 S., R.35 E., Dade County, Hydrologic Unit 03090202, at 40-mile bend on U.S. Highway 41, 38 mi (61 km) west of Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1939 to June 1940 (weekly) and July 1940 to current year (gage heights). Published October 1960 to September 1963 as Tamiami Canal outlets, Miami to Monroe (station 02289000). Records prior to October 1960 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. 31, 1949, nonrecording gage at site, 1,800 ft (549 m) downstream at datum 0.87 ft (0.265 m) lower and Aug. 31, 1949 to Dec. 28, 1951, at present datum. Dec. 29, 1951 to June 12, 1961, water-stage recorder at site 1,800 ft (549 m) downstream at present datum.

REMARKS.--Station is one of several located at various points along Tamiami Canal and is primarily for water-level record.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 10.3 ft (3.14 m) estimated present datum, Oct. 12, 1947; minimum observed, 1.46 ft (0.445 m) June 11, 1945.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 8.72 ft (2.658 m) June 22; minimum, 8.09 ft (2.466 m) May 17.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.54	8.25	8.23	8.24	8.26	8.41	8.43	8.25	8.23	8.44	8.62	8.42
2	8.53	8.24	8.23	8.24	8.25	8.41	8.41	8.24	8.25	8.46	8.62	8.43
3	8.52	8.23	8.23	8.25	8.25	8.42	8.39	8.22	8.24	8.43	8.60	8.45
4	8.51	8.24	8.22	8.25	8.24	8.48	8.38	8.21	8.23	8.41	8.59	8.44
5	8.50	8.27	8.21	8.25	8.26	8.47	8.36	8.22	8.22	8.40	8.58	8.48
6	8.49	8.27	8.24	8.24	8.25	8.47	8.35	8.22	8.23	8.41	8.58	8.45
7	8.48	8.26	8.26	8.24	8.24	8.46	8.34	8.20	8.24	8.41	8.58	8.43
8	8.47	8.26	8.25	8.23	8.25	8.45	8.32	8.19	8.24	8.43	8.57	8.43
9	8.46	8.26	8.25	8.27	8.34	8.53	8.31	8.18	8.23	8.41	8.56	8.48
10	8.45	8.26	8.28	8.26	8.34	8.57	8.29	8.17	8.23	8.39	8.54	8.45
11	8.44	8.26	8.27	8.25	8.34	8.56	8.27	8.16	8.23	8.38	8.56	8.44
12	8.43	8.26	8.26	8.24	8.34	8.55	8.26	8.15	8.22	8.41	8.56	8.45
13	8.42	8.25	8.26	8.26	8.33	8.54	8.24	8.15	8.21	8.42	8.55	8.44
14	8.40	8.25	8.25	8.27	8.33	8.53	8.24	8.14	8.20	8.49	8.54	8.43
15	8.39	8.24	8.25	8.26	8.32	8.52	8.23	8.13	8.19	8.59	8.51	8.46
16	8.38	8.25	8.25	8.26	8.31	8.51	8.23	8.11	8.18	8.58	8.49	8.48
17	8.37	8.27	8.31	8.24	8.31	8.50	8.21	8.10	8.17	8.57	8.48	8.47
18	8.36	8.27	8.33	8.25	8.37	8.49	8.21	8.12	8.23	8.56	8.45	8.46
19	8.35	8.26	8.32	8.24	8.43	8.48	8.26	8.16	8.28	8.58	8.44	8.46
20	8.34	8.26	8.31	8.33	8.44	8.47	8.26	8.18	8.26	8.57	8.46	8.46
21	8.33	8.25	8.30	8.33	8.45	8.47	8.26	8.17	8.28	8.55	8.44	8.46
22	8.33	8.25	8.29	8.33	8.46	8.50	8.26	8.17	8.36	8.55	8.42	8.46
23	8.33	8.24	8.29	8.33	8.45	8.49	8.25	8.17	8.51	8.55	8.41	8.47
24	8.32	8.26	8.28	8.32	8.44	8.48	8.30	8.18	8.45	8.53	8.42	8.46
25	8.31	8.27	8.27	8.31	8.44	8.46	8.31	8.21	8.45	8.52	8.42	8.48
26	8.30	8.27	8.27	8.31	8.44	8.45	8.30	8.20	8.49	8.50	8.41	8.51
27	8.29	8.26	8.26	8.30	8.43	8.43	8.28	8.22	8.47	8.49	8.39	8.50
28	8.28	8.25	8.25	8.29	8.42	8.43	8.27	8.24	8.46	8.51	8.38	8.52
29	8.27	8.25	8.24	8.28	---	8.42	8.26	8.25	8.44	8.55	8.36	8.56
30	8.26	8.24	8.24	8.28	---	8.41	8.25	8.23	8.42	8.62	8.40	8.54
31	8.26	---	8.24	8.27	---	8.43	---	8.23	---	8.59	8.43	---
MEAN	8.39	8.26	8.26	8.27	8.35	8.48	8.29	8.19	8.29	8.49	8.50	8.47
MAX	8.54	8.27	8.33	8.33	8.46	8.57	8.43	8.25	8.51	8.62	8.62	8.56
MIN	8.26	8.23	8.21	8.23	8.24	8.41	8.21	8.10	8.17	8.38	8.36	8.42

CAL YR 1977 MEAN 7.98 MAX 8.62 MIN 6.07
WTR YR 1978 MEAN 8.35 MAX 8.62 MIN 8.10

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02289018 TAMAMI CANAL ABOVE S-12-B, NEAR MIAMI, FL

LOCATION.--Lat 25°45'42", long 80°46'05", in N1/2 sec.19, T.54 S., R.36 E., Dade County, Hydrologic Unit 03090202, on south bank of levee 29 borrow ditch, 100 ft (30 m) northwest of control structure 12-B, and 35 mi (56 km) west of Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1963 to current year (gage heights).

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 furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 10.55 ft (3.216 m) Oct. 26, 1968; minimum, 5.31 ft (1.618 m) May 21, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 9.94 ft (3.030 m) Mar. 10; minimum, 9.14 ft (2.786 m) May 17.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.64	9.50	9.36	9.35	9.37	9.66	9.78	9.39	9.28	9.32	9.68	9.29
2	9.64	9.48	9.36	9.36	9.37	9.64	9.77	9.38	9.26	9.33	9.70	9.31
3	9.64	9.47	9.36	9.39	9.37	9.60	9.76	9.36	9.23	9.36	9.67	9.32
4	9.64	9.45	9.35	9.40	9.37	9.73	9.73	9.31	9.22	9.34	9.57	9.32
5	9.64	9.48	9.34	9.38	9.37	9.76	9.71	9.31	9.22	9.35	9.59	9.32
6	9.64	9.49	9.34	9.37	9.37	9.77	9.70	9.33	9.21	9.35	9.59	9.33
7	9.63	9.49	9.38	9.36	9.40	9.74	9.68	9.32	9.26	9.36	9.59	9.33
8	9.63	9.49	9.38	9.34	9.41	9.72	9.66	9.30	9.31	9.38	9.55	9.33
9	9.64	9.49	9.37	9.35	9.41	9.84	9.63	9.29	9.31	9.38	9.50	9.31
10	9.64	9.49	9.38	9.35	9.42	9.93	9.61	9.26	9.27	9.37	9.47	9.29
11	9.65	9.48	9.39	9.35	9.43	9.93	9.60	9.26	9.28	9.37	9.43	9.31
12	9.67	9.46	9.39	9.34	9.42	9.92	9.59	9.25	9.26	9.37	9.41	9.31
13	9.68	9.43	9.37	9.34	9.44	9.91	9.59	9.22	9.24	9.37	9.40	9.30
14	9.67	9.43	9.36	9.36	9.44	9.86	9.59	9.22	9.24	9.41	9.39	9.30
15	9.67	9.43	9.34	9.35	9.44	9.83	9.57	9.19	9.21	9.52	9.39	9.31
16	9.66	9.40	9.33	9.35	9.44	9.81	9.56	9.16	9.19	9.56	9.39	9.32
17	9.66	9.41	9.40	9.34	9.44	9.81	9.56	9.14	9.17	9.61	9.38	9.29
18	9.63	9.41	9.42	9.33	9.47	9.83	9.56	9.17	9.21	9.65	9.37	9.29
19	9.61	9.40	9.42	9.30	9.63	9.81	9.56	9.20	9.29	9.69	9.35	9.29
20	9.59	9.40	9.42	9.37	9.65	9.76	9.56	9.23	9.26	9.63	9.34	9.28
21	9.59	9.40	9.40	9.38	9.70	9.75	9.55	9.23	9.24	9.59	9.31	9.26
22	9.59	9.39	9.40	9.38	9.72	9.76	9.52	9.23	9.27	9.56	9.31	9.26
23	9.59	9.37	9.40	9.38	9.72	9.77	9.54	9.21	9.34	9.56	9.31	9.28
24	9.60	9.41	9.40	9.38	9.68	9.75	9.61	9.18	9.34	9.56	9.31	9.29
25	9.60	9.42	9.40	9.35	9.67	9.72	9.61	9.17	9.33	9.55	9.29	9.32
26	9.60	9.41	9.39	9.34	9.68	9.72	9.59	9.23	9.36	9.54	9.28	9.41
27	9.59	9.39	9.40	9.35	9.67	9.68	9.50	9.30	9.38	9.51	9.27	9.43
28	9.55	9.37	9.40	9.35	9.67	9.69	9.50	9.31	9.36	9.49	9.26	9.47
29	9.55	9.38	9.39	9.35	---	9.75	9.46	9.30	9.33	9.52	9.24	9.51
30	9.52	9.37	9.37	9.36	---	9.75	9.43	9.29	9.32	9.63	9.22	9.54
31	9.52	---	9.36	9.37	---	9.76	---	9.31	---	9.67	9.20	---
MEAN	9.62	9.43	9.38	9.36	9.51	9.77	9.60	9.26	9.27	9.48	9.41	9.33
MAX	9.68	9.50	9.42	9.40	9.72	9.93	9.78	9.39	9.38	9.69	9.70	9.54
MIN	9.52	9.37	9.33	9.30	9.37	9.60	9.43	9.14	9.17	9.32	9.20	9.26

CAL YR 1977 MEAN 8.79 MAX 9.68 MIN 7.69
WTR YR 1978 MEAN 9.45 MAX 9.93 MIN 9.14

02289019 TAMiami CANAL BELOW S-12-B, NEAR MIAMI, FL

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1963 to current year (gage heights).

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

COOPERATION.--Gate-opening record furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 10.22 ft (3.115 m) Nov. 7-11, 1969; minimum, 5.35 ft (1.862 m) May 21, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 9.50 ft (2.896 m) Aug. 7; minimum, 7.74 ft (2.359 m) May 18.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.65	9.20	8.36	8.55	8.44	8.24	8.14	7.76	7.81	8.10	8.40	9.25
2	8.65	9.18	8.33	8.55	8.44	8.23	8.07	7.76	7.81	8.10	8.39	9.26
3	8.67	9.18	8.32	8.54	8.44	8.27	8.03	7.75	7.81	8.12	8.69	9.26
4	8.68	9.19	8.32	8.54	8.44	8.25	7.96	7.75	7.82	8.09	9.43	9.26
5	8.67	9.21	8.32	8.55	8.45	8.24	7.93	7.76	7.89	8.08	9.42	9.26
6	8.67	9.20	8.34	8.54	8.44	8.24	7.92	7.76	8.02	8.08	9.45	9.26
7	8.70	9.20	8.35	8.54	8.44	8.24	7.91	7.75	8.02	8.09	9.46	9.26
8	8.70	9.19	8.33	8.54	8.45	8.24	7.90	7.75	8.03	8.10	9.46	9.26
9	8.70	9.19	8.53	8.54	8.46	8.33	7.89	7.75	8.01	8.10	9.44	9.26
10	8.69	9.20	8.81	8.54	8.45	8.28	7.88	7.75	7.99	8.10	9.41	9.25
11	8.69	9.19	8.82	8.54	8.45	8.27	7.86	7.76	7.99	8.07	9.39	9.24
12	8.69	9.18	8.81	8.54	8.44	8.26	7.84	7.76	7.98	8.07	9.37	9.24
13	8.69	9.17	8.80	8.55	8.43	8.29	7.84	7.76	7.98	8.08	9.36	9.23
14	8.69	9.07	8.80	8.55	8.43	8.38	7.84	7.76	7.98	8.11	9.38	9.23
15	8.70	8.85	8.79	8.55	8.36	8.39	7.83	7.76	7.98	8.14	9.37	9.25
16	8.71	8.84	8.70	8.55	8.26	8.39	7.84	7.75	7.98	8.15	9.36	9.25
17	8.71	8.84	8.59	8.54	8.25	8.39	7.83	7.74	8.02	8.15	9.35	9.26
18	8.92	8.84	8.60	8.53	8.28	8.38	7.84	7.76	8.07	8.14	9.34	9.24
19	9.25	8.83	8.59	8.53	8.30	8.40	7.82	7.79	8.09	8.23	9.32	9.24
20	9.25	8.82	8.57	8.57	8.28	8.40	7.82	7.76	8.04	8.36	9.31	9.23
21	9.25	8.81	8.57	8.55	8.27	8.39	7.81	7.75	8.07	8.38	9.30	9.22
22	9.26	8.81	8.57	8.55	8.27	8.39	7.81	7.74	8.05	8.39	9.29	9.21
23	9.28	8.81	8.56	8.55	8.26	8.39	7.81	7.74	8.08	8.40	9.27	9.19
24	9.27	8.83	8.56	8.55	8.26	8.40	7.87	7.74	8.08	8.39	9.27	9.17
25	9.27	8.84	8.56	8.56	8.25	8.40	7.86	7.74	8.09	8.39	9.27	9.15
26	9.26	8.84	8.56	8.56	8.25	8.40	7.84	7.79	8.10	8.39	9.24	9.17
27	9.25	8.83	8.56	8.62	8.25	8.39	7.80	7.82	8.11	8.39	9.21	9.18
28	9.24	8.82	8.56	8.47	8.25	8.36	7.79	7.82	8.09	8.41	9.22	9.21
29	9.23	8.79	8.55	8.45	---	8.32	7.78	7.82	8.08	8.46	9.21	9.25
30	9.23	8.62	8.55	8.45	---	8.27	7.78	7.82	8.09	8.49	9.21	9.26
31	9.22	---	8.55	8.45	---	8.24	---	7.81	---	8.40	9.26	---
MEAN	8.93	8.99	8.56	8.54	8.36	8.32	7.87	7.77	8.01	8.22	9.25	9.23
MAX	9.28	9.21	8.82	8.62	8.46	8.40	8.14	7.82	8.11	8.49	9.46	9.26
MIN	8.65	8.62	8.32	8.45	8.25	8.23	7.78					

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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., Hendry County, Hydrologic Unit 03090202, near center of span on upstream side of bridge on private road, 100 ft (30 m) upstream from Deerfence Canal, 2 mi (3 km) east of State Highway 846, and 22 mi (35 km) south of Clewiston.

DRAINAGE AREA.--Indeterminate.

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

GAGE--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 (0.046 m) lower.

REMARKS.--Record fair. Flow at this location includes the flow of Deerfence Canal.

AVERAGE DISCHARGE.--9 years, 164 ft³/s (4.64 m³/s), 118,700 acre-ft/yr (146 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,580 ft³/s (44.7 m³/s) Aug. 17, 1974; maximum gage height, 18.57 ft (5.600 m) Aug. 4, 1973 present datum; no flow for some days each year; minimum gage height, 9.65 ft (2.941 m) May 7, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,150 ft³/s (32.6 m³/s) Aug. 19; maximum gage height, 16.05 ft (4.892 m) Aug. 19; no flow for many days; minimum gage height, 11.14 ft (3.395 m) May 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	248	16	148	3.0	.00	.00	.00	.00	.00	1.6	727	985
2	162	14	127	1.4	.00	.00	.00	.00	.00	.03	758	1040
3	120	27	96	.03	.00	.00	.00	.00	.00	.00	878	1090
4	233	123	69	.00	.00	.00	.00	.00	.00	.00	928	1080
5	350	250	60	.00	.00	.00	.00	.00	.00	.00	921	1040
6	370	309	112	.00	.00	.00	.00	.00	.00	4.0	902	739
7	363	292	152	.00	.00	.00	.00	.00	.00	15	896	440
8	336	255	156	.00	.00	.00	.00	.00	.00	56	873	374
9	312	230	202	.60	.00	.00	.00	.00	.00	106	848	278
10	281	187	242	4.2	.00	.00	.00	.00	.00	128	820	171
11	251	157	228	4.1	.00	.00	.00	.00	.00	160	830	93
12	225	112	199	5.0	.00	.00	.00	.00	.00	331	828	44
13	203	89	173	6.1	.00	.00	.00	.00	.00	459	872	250
14	190	59	147	9.5	.00	.00	.00	.00	.00	567	924	451
15	173	36	124	8.2	.00	.00	.00	.00	.00	595	935	454
16	153	24	147	7.5	.00	.00	.00	.00	.00	548	943	532
17	139	14	366	4.9	.00	.00	.00	.00	.00	526	1060	529
18	127	7.3	384	5.8	.00	.00	.00	.00	.00	507	1130	526
19	108	4.6	326	6.2	.00	.00	.00	.00	.00	427	1150	571
20	84	1.7	238	69	.00	.00	.00	.00	.00	469	1140	536
21	65	.00	202	192	.00	.00	.00	.00	.00	475	1130	481
22	54	.00	183	194	.00	.00	.00	.00	.00	406	1100	449
23	56	24	135	143	.00	.00	.00	.00	.00	372	1100	454
24	71	117	103	133	.00	.00	.00	.00	.00	347	1110	554
25	72	136	87	118	.00	.00	.00	.00	.00	287	1110	592
26	62	122	75	114	.00	.00	.00	.00	.00	258	1060	629
27	50	101	52	134	.00	.00	.00	.00	.00	226	996	623
28	33	98	29	132	.00	.00	.00	.00	.00	335	913	538
29	17	132	17	95	---	.00	.00	.00	.00	529	843	438
30	13	170	9.9	90	---	.00	.00	.00	.00	769	900	365
31	13	---	5.9	95	---	.00	---	.00	---	776	919	---
TOTAL	4934	3107.60	4594.8	1575.53	.00	.00	.00	.00	.00	9679.63	29544	16346
MEAN	159	104	148	50.8	.000	.000	.000	.000	.000	312	953	545
MAX	370	309	384	194	.00	.00	.00	.00	.00	776	1150	1090
MIN	13	.00	5.9	.00	.00	.00	.00	.00	.00	.00	727	44
AC-FT	9790	6160	9110	3130	.00	.00	.00	.00	.00	19200	58600	32420

CAL YR 1977 TOTAL 44093.35 MEAN 121 MAX 1330 MIN .00 AC-FT 87460
WTR YR 1978 TOTAL 69781.56 MEAN 191 MAX 1150 MIN .00 AC-FT 138400

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02289030 LEVEE 3 CANAL NEAR CLEWISTON, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.50	11.59	13.29	12.73	12.69	12.42	11.96	11.42	11.38	13.61	14.66	15.38
2	12.20	11.58	13.22	12.70	12.61	12.37	12.00	11.41	11.44	13.50	14.76	15.53
3	12.03	11.72	13.09	12.67	12.57	12.30	11.98	11.38	11.51	13.41	15.12	15.69
4	12.45	12.29	12.96	12.65	12.51	12.43	11.90	11.23	11.43	13.32	15.28	15.68
5	12.82	12.79	12.93	12.61	12.44	12.44	11.81	11.17	11.36	13.27	15.25	15.54
6	12.88	13.01	13.20	12.57	12.37	12.37	11.73	11.21	11.40	13.38	15.19	15.36
7	12.86	12.98	13.38	12.50	12.34	12.32	11.69	11.60	11.64	13.51	15.18	15.17
8	12.78	12.90	13.41	12.47	12.32	12.26	11.69	11.86	11.74	13.75	15.11	14.97
9	12.70	12.85	13.58	12.56	12.40	12.55	11.69	11.96	11.82	13.96	15.03	14.68
10	12.61	12.74	13.73	12.65	12.46	13.11	11.72	12.00	11.85	13.99	14.94	14.32
11	12.52	12.66	13.70	12.62	12.46	13.13	11.68	11.99	11.93	14.06	14.98	13.99
12	12.43	12.51	13.61	12.62	12.42	13.06	11.60	11.90	12.00	14.57	14.97	13.72
13	12.36	12.43	13.53	12.62	12.38	12.99	11.52	11.83	12.15	14.90	15.11	13.74
14	12.31	12.30	13.45	12.66	12.38	12.98	11.46	11.75	12.20	15.18	15.26	13.83
15	12.25	12.18	13.37	12.61	12.35	13.04	11.42	11.70	12.19	15.20	15.30	13.92
16	12.18	12.13	13.47	12.57	12.26	12.93	11.42	11.61	12.14	15.00	15.32	14.23
17	12.12	12.06	14.20	12.48	12.26	12.73	11.43	11.54	12.05	14.88	15.68	14.31
18	12.07	12.00	14.27	12.48	12.29	12.59	11.45	11.52	11.93	14.76	15.90	14.38
19	11.99	11.97	14.11	12.45	12.42	12.55	11.38	11.80	11.89	14.46	15.96	14.59
20	11.88	11.93	13.84	12.91	12.50	12.50	11.33	12.07	11.88	14.53	15.93	14.57
21	11.77	11.82	13.73	13.43	12.60	12.44	11.33	12.17	12.05	14.49	15.89	14.48
22	11.71	11.73	13.68	13.41	12.62	12.42	11.38	12.15	12.41	14.22	15.81	14.46
23	11.73	12.24	13.51	13.19	12.62	12.39	11.41	12.11	12.47	14.06	15.81	14.56
24	11.81	12.91	13.39	13.13	12.61	12.35	11.55	12.03	12.45	13.93	15.83	14.94
25	11.81	13.02	13.32	13.04	12.58	12.31	11.60	11.89	12.70	13.69	15.82	15.14
26	11.76	13.00	13.28	12.99	12.55	12.23	11.52	11.78	12.94	13.54	15.68	15.33
27	11.69	12.93	13.16	13.05	12.52	12.18	11.52	11.69	13.44	13.38	15.48	15.39
28	11.58	12.95	13.01	13.01	12.43	12.13	11.48	11.63	13.58	13.66	15.23	15.21
29	11.49	13.13	12.92	12.82	---	12.07	11.42	11.59	13.70	14.20	15.01	14.99
30	11.48	13.31	12.85	12.77	---	12.02	11.43	11.52	13.74	14.87	15.19	14.84
31	11.51	---	12.79	12.77	---	11.95	---	11.44	---	14.84	15.25	---
MEAN	12.14	12.46	13.42	12.77	12.46	12.50	11.58	11.71	12.18	14.13	15.35	14.76
MAX	12.88	13.31	14.27	13.43	12.69	13.13	12.00	12.17	13.74	15.20	15.96	15.69
MIN	11.48	11.58	12.79	12.45	12.26	11.95	11.33	11.17	11.36	13.27	14.66	13.72

CAL YR 1977 MEAN 12.51 MAX 15.84 MIN 10.00
WTR YR 1978 MEAN 12.96 MAX 15.96 MIN 11.17

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02289040 TAMAMI CANAL OUTLETS, LEVEE 67A TO 40-MILE BEND, NEAR MIAMI, FL

LOCATION.--Lat 25°45'22", long 80°43'34", in N1/2 sec.22, T.54 S., R.36 E., Dade County, Hydrologic Unit 03090202, on south bank of levee 29 borrow canal, 100 ft (30 m) northwest of control structure 12-C, and 33 mi (53 km) 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. 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 southward through 12 bridges from bridge 40 to 29 and was published as part of the total daily discharge of station, Tamiami Canal outlets, Miami to Monroe (station 02289000).

COOPERATION.--Gate-opening records for S-12 complex furnished by Corps of Engineers.

AVERAGE DISCHARGE.--38 years, 383 ft³/s (10.8 m³/s), 277,300 acre-ft/yr (342 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 4,810 ft³/s (136 m³/s) Aug. 10, 11, 1968; maximum gage height, 10.52 ft (3.206 m) Oct. 26, 1968; no flow for some days most years; minimum gage height, 5.34 ft (1.628 m) May 21, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,860 ft³/s (81.0 m³/s) Aug. 9; maximum gage height, 10.04 ft (3.060 m) Mar. 11; minimum daily discharge, 38 ft³/s (1.08 m³/s) June 5; minimum gage height, 9.19 ft (2.801 m) June 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1140	1110	761	385	256	122	86	42	41	124	1120	1790
2	1140	1170	751	387	256	123	88	42	40	126	1120	1830
3	1050	1170	723	393	256	120	68	42	40	126	1630	1850
4	1110	1020	709	398	257	126	45	41	40	126	2270	1870
5	1110	1020	693	392	258	127	46	41	38	127	2360	1920
6	1110	1080	718	390	258	127	46	41	49	126	2230	1970
7	1070	1050	735	386	261	126	46	42	72	127	2570	2000
8	1070	1060	760	380	260	126	46	41	73	128	2700	2000
9	1070	1060	644	377	263	127	46	41	73	128	2860	2010
10	1110	1010	572	381	266	132	46	41	73	128	2730	2000
11	1110	1050	581	379	265	133	45	41	73	127	2620	2000
12	1140	1110	582	373	265	133	44	41	73	127	2490	2000
13	1180	1250	579	367	265	861	44	41	73	128	2520	1990
14	1170	1080	573	382	266	1360	44	40	72	129	2490	1990
15	1230	884	572	378	164	1200	45	40	72	132	2420	2020
16	1230	894	507	378	114	1110	45	40	105	134	2320	2060
17	1180	862	452	372	116	1160	45	40	121	135	2250	2040
18	1270	859	460	371	115	1130	44	40	119	139	2220	1990
19	1330	845	463	366	119	1100	44	40	121	964	2160	1960
20	1330	836	463	379	121	1150	45	41	121	1350	2020	1930
21	1330	887	418	383	123	1060	45	41	119	1260	2010	1900
22	1260	854	389	386	125	1060	44	41	120	1280	1990	1880
23	1290	815	392	388	125	1040	44	40	122	1280	1980	1880
24	1290	823	389	387	124	997	44	40	123	1310	1960	1910
25	1250	893	389	382	124	1030	44	40	123	1270	1920	1340
26	1300	896	388	382	124	1040	45	40	123	1230	1900	884
27	1300	884	388	244	123	885	44	41	124	1260	1840	910
28	1190	842	388	256	122	717	44	41	126	1230	1780	993
29	1150	817	390	257	---	433	43	41	125	1200	1710	1060
30	1140	750	388	259	---	291	43	41	124	1300	1670	1060
31	1200	---	386	258	---	128	---	41	---	1120	1760	---
TOTAL	36850	28881	16603	11196	5391	19274	1448	1265	2718	18371	65620	53037
MEAN	1189	963	536	361	193	622	48.3	40.8	90.6	593	2117	1768
MAX	1330	1250	761	398	266	1360	88	42	126	1350	2860	2060
MIN	1050	750	386	244	114	120	43	40	38	124	1120	884
AC-FT	73090	57290	32930	22210	10690	38230	2870	2510	5390	36440	130200	105200

CAL YR 1977 TOTAL 136853 MEAN 375 MAX 1330 MIN 27 AC-FT 271400
WTR YR 1978 TOTAL 260654 MEAN 714 MAX 2860 MIN 38 AC-FT 517000

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02289040 TAMIAHI CANAL OUTLETS, LEVEE 67A TO 40-MILE BEND, NEAR MIAMI, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.67	9.54	9.40	9.42	9.44	9.69	9.83	9.43	9.29	9.34	9.71	9.37
2	9.67	9.52	9.40	9.42	9.43	9.70	9.82	9.42	9.27	9.37	9.72	9.39
3	9.67	9.51	9.38	9.45	9.42	9.65	9.82	9.41	9.26	9.37	9.72	9.40
4	9.68	9.48	9.37	9.48	9.44	9.79	9.80	9.34	9.25	9.38	9.66	9.38
5	9.69	9.51	9.36	9.45	9.46	9.82	9.79	9.36	9.25	9.41	9.68	9.38
6	9.69	9.52	9.37	9.43	9.47	9.83	9.78	9.36	9.25	9.38	9.65	9.40
7	9.69	9.52	9.40	9.40	9.47	9.81	9.75	9.37	9.28	9.41	9.68	9.41
8	9.70	9.51	9.39	9.37	9.46	9.78	9.74	9.36	9.30	9.42	9.62	9.41
9	9.71	9.50	9.39	9.34	9.52	9.88	9.73	9.35	9.30	9.43	9.53	9.41
10	9.73	9.50	9.45	9.36	9.57	10.00	9.70	9.34	9.28	9.43	9.52	9.39
11	9.75	9.50	9.45	9.35	9.55	10.00	9.66	9.33	9.28	9.43	9.49	9.39
12	9.74	9.50	9.44	9.32	9.55	9.98	9.61	9.33	9.28	9.43	9.44	9.39
13	9.74	9.50	9.42	9.30	9.52	9.92	9.60	9.31	9.27	9.45	9.43	9.39
14	9.74	9.48	9.40	9.36	9.53	9.86	9.61	9.28	9.27	9.51	9.43	9.38
15	9.74	9.47	9.40	9.35	9.55	9.82	9.63	9.25	9.25	9.59	9.43	9.38
16	9.74	9.47	9.40	9.35	9.54	9.79	9.62	9.22	9.23	9.62	9.42	9.38
17	9.74	9.45	9.46	9.31	9.56	9.81	9.61	9.22	9.22	9.66	9.41	9.38
18	9.70	9.45	9.52	9.30	9.57	9.82	9.59	9.25	9.23	9.72	9.41	9.36
19	9.69	9.44	9.51	9.28	9.69	9.80	9.57	9.28	9.30	9.73	9.39	9.35
20	9.69	9.43	9.50	9.36	9.73	9.76	9.57	9.31	9.27	9.66	9.38	9.33
21	9.67	9.42	9.48	9.38	9.76	9.74	9.56	9.30	9.24	9.62	9.37	9.32
22	9.64	9.42	9.48	9.38	9.80	9.76	9.55	9.28	9.25	9.62	9.36	9.33
23	9.65	9.40	9.49	9.38	9.79	9.76	9.54	9.25	9.29	9.64	9.36	9.38
24	9.68	9.44	9.47	9.38	9.75	9.73	9.56	9.24	9.30	9.63	9.35	9.39
25	9.68	9.48	9.47	9.36	9.74	9.72	9.60	9.23	9.28	9.62	9.35	9.44
26	9.68	9.47	9.47	9.37	9.74	9.70	9.58	9.29	9.29	9.61	9.34	9.52
27	9.65	9.45	9.47	9.45	9.74	9.71	9.56	9.39	9.31	9.60	9.33	9.56
28	9.60	9.42	9.46	9.45	9.70	9.73	9.55	9.40	9.32	9.58	9.32	9.60
29	9.59	9.42	9.45	9.46	---	9.77	9.51	9.40	9.34	9.63	9.31	9.66
30	9.56	9.42	9.44	9.45	---	9.81	9.47	9.33	9.34	9.77	9.31	9.66
31	9.55	---	9.42	9.44	---	9.81	---	9.32	---	9.71	9.39	---
MEAN	9.68	9.47	9.44	9.38	9.59	9.80	9.64	9.32	9.28	9.54	9.47	9.42
MAX	9.75	9.54	9.52	9.48	9.80	10.00	9.83	9.43	9.34	9.77	9.72	9.66
MIN	9.55	9.40	9.36	9.28	9.42	9.65	9.47	9.22	9.22	9.34	9.31	9.32

CAL YR 1977 MEAN 8.86 MAX 9.75 MIN 7.75
WTR YR 1978 MEAN 9.50 MAX 10.00 MIN 9.22

02289041 TAMiami CANAL BELOW S-12-C, NEAR MIAMI, FL

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1963 to current year (gage heights).

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

REMARKS.--Station is one of several located below the control structures in levee 29 at Tamiami Canal. Gage record is primarily used to determine discharge through control structure 12-C.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 10.36 ft (3.158 m) Nov. 5-8, 10, 1969; minimum, 5.37 ft (1.637 m) May 21, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 9.67 ft (2.947 m) Mar 18; minimum, 7.70 ft (2.347 m) May 17.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.54	9.46	9.19	8.49	8.25	8.07	8.11	7.76	7.76	8.17	9.55	9.37
2	9.54	9.43	9.19	8.49	8.25	8.07	8.03	7.75	7.76	8.16	9.56	9.37
3	9.54	9.41	9.19	8.49	8.25	8.09	7.97	7.76	7.76	8.16	9.56	9.38
4	9.57	9.41	9.19	8.49	8.25	8.09	7.92	7.76	7.77	8.17	9.54	9.36
5	9.54	9.44	9.18	8.49	8.25	8.09	7.87	7.76	7.91	8.17	9.55	9.39
6	9.54	9.45	9.18	8.48	8.25	8.09	7.86	7.76	8.03	8.17	9.55	9.39
7	9.57	9.44	9.21	8.47	8.25	8.08	7.84	7.76	8.05	8.17	9.58	9.41
8	9.58	9.44	9.18	8.47	8.25	8.08	7.83	7.76	8.05	8.17	9.60	9.39
9	9.58	9.43	9.02	8.47	8.27	8.14	7.80	7.76	8.04	8.17	9.57	9.39
10	9.58	9.43	8.79	8.47	8.27	8.14	7.80	7.75	8.03	8.18	9.52	9.38
11	9.58	9.43	8.77	8.47	8.28	8.10	7.80	7.74	8.03	8.19	9.48	9.36
12	9.58	9.41	8.75	8.47	8.27	8.11	7.80	7.75	8.03	8.20	9.44	9.36
13	9.60	9.39	8.74	8.49	8.27	8.96	7.80	7.75	8.03	8.20	9.47	9.36
14	9.58	9.33	8.74	8.46	8.25	9.64	7.79	7.75	8.03	8.24	9.47	9.36
15	9.55	9.26	8.73	8.47	8.19	9.65	7.79	7.74	8.04	8.25	9.45	9.37
16	9.55	9.25	8.70	8.47	8.09	9.64	7.78	7.73	8.08	8.25	9.43	9.39
17	9.53	9.25	8.66	8.47	8.07	9.65	7.77	7.72	8.10	8.25	9.41	9.38
18	9.54	9.25	8.69	8.46	8.10	9.67	7.77	7.74	8.15	8.25	9.41	9.37
19	9.54	9.25	8.67	8.46	8.14	9.66	7.76	7.77	8.17	8.97	9.39	9.34
20	9.52	9.25	8.66	8.48	8.12	9.61	7.74	7.76	8.15	9.43	9.35	9.33
21	9.50	9.21	8.60	8.47	8.11	9.60	7.74	7.74	8.15	9.42	9.36	9.33
22	9.50	9.23	8.54	8.46	8.10	9.63	7.73	7.73	8.15	9.40	9.37	9.32
23	9.51	9.22	8.54	8.45	8.08	9.63	7.74	7.73	8.16	9.41	9.39	9.32
24	9.50	9.26	8.54	8.45	8.07	9.62	7.80	7.73	8.13	9.39	9.37	9.33
25	9.50	9.27	8.54	8.45	8.07	9.60	7.78	7.74	8.12	9.39	9.36	9.39
26	9.52	9.25	8.53	8.46	8.06	9.58	7.74	7.77	8.12	9.39	9.36	9.48
27	9.50	9.24	8.53	8.32	8.08	9.41	7.80	7.83	8.13	9.38	9.35	9.50
28	9.50	9.23	8.53	8.26	8.08	9.20	7.78	7.81	8.12	9.37	9.33	9.53
29	9.50	9.21	8.51	8.24	---	8.85	7.77	7.80	8.15	9.42	9.31	9.58
30	9.48	9.21	8.50	8.22	---	8.53	7.76	7.77	8.16	9.53	9.30	9.58
31	9.45	---	8.49	8.22	---	8.35	---	7.75	---	9.55	9.35	---
MEAN	9.54	9.32	8.78	8.44	8.18	8.89	7.82	7.76	8.05	8.70	9.44	9.39
MAX	9.60	9.46	9.21	8.49	8.28	9.67	8.11	7.83	8.17	9.55	9.60	9.58
MIN	9.45	9.21	8.49	8.22	8.06	8.07	7.73	7.72	7.76	8.16	9.30	9.32
CAL YR 1977	MEAN	8.34	MAX	9.60	MIN	7.35						
WTR YR 1978	MEAN	8.70	MAX	9.67	MIN	7.72						

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

02289043 EVERGLADES 3-65S NEAR MIAMI, FL

LOCATION.--Lat 25°48'55", long 80°43'18", in SW¼ sec.34, T.53 S., R.36 E., Dade County, Hydrologic Unit 03090202, in water conservation area 3A, 300 ft (91.4 m) west of Corps of Engineers station 65, 3.8 mi (6.1 mi) north of U.S. Highway 41, and 33 mi (53.1 km) west of Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1973 to current year (gage heights).

GAGE.--Water stage recorder and Data Collection Platform (DCP). Datum of gage is National Geodetic Vertical Datum of 1929 (datum furnished by the Corps of Engineers).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 10.49 ft (3.197 m) Sept. 19, 20; minimum, 5.91 ft (1.801 m) May 2, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 10.10 ft (3.078 m) Mar. 10, 11; minimum, 9.29 ft (2.832 m) May 17, 18, June 17, 18.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.84	9.71	9.54	9.52	9.56	9.81	9.92	9.54	9.40	9.45	10.05	9.83
2	9.85	9.69	9.54	9.52	9.58	9.82	9.91	9.52	9.40	9.45	10.06	9.84
3	9.86	9.68	9.53	9.53	9.61	9.82	9.89	9.50	9.39	9.46	10.06	9.84
4	9.87	9.67	9.52	9.54	9.60	9.88	9.88	9.47	9.37	9.46	10.05	9.83
5	9.87	9.66	9.51	9.53	9.60	9.91	9.86	9.46	9.36	9.47	10.05	9.88
6	9.87	9.69	9.52	9.52	9.59	9.92	9.85	9.46	9.40	9.46	10.04	9.87
7	9.88	9.73	9.53	9.51	9.56	9.91	9.83	9.45	9.47	9.47	10.06	9.86
8	9.88	9.75	9.52	9.50	9.55	9.90	9.82	9.43	9.47	9.49	10.04	9.84
9	9.88	9.76	9.51	9.51	9.54	9.98	9.80	9.41	9.44	9.50	9.99	9.83
10	9.87	9.76	9.55	9.50	9.53	10.09	9.77	9.40	9.43	9.50	9.95	9.78
11	9.86	9.74	9.55	9.49	9.56	10.10	9.75	9.39	9.41	9.49	9.93	9.80
12	9.86	9.72	9.54	9.49	9.60	10.08	9.72	9.38	9.39	9.52	9.94	9.80
13	9.87	9.70	9.53	9.50	9.61	10.08	9.70	9.37	9.37	9.52	9.97	9.79
14	9.86	9.68	9.52	9.53	9.60	10.04	9.70	9.35	9.35	9.55	9.96	9.79
15	9.85	9.66	9.52	9.51	9.60	10.02	9.73	9.32	9.34	9.65	9.92	9.80
16	9.83	9.64	9.51	9.50	9.59	10.00	9.70	9.31	9.32	9.69	9.90	9.81
17	9.83	9.62	9.60	9.49	9.61	9.99	9.67	9.30	9.30	9.74	9.89	9.79
18	9.82	9.61	9.62	9.47	9.69	9.98	9.67	9.32	9.33	9.78	9.87	9.78
19	9.80	9.61	9.61	9.47	9.79	9.97	9.67	9.37	9.40	9.81	9.85	9.76
20	9.79	9.60	9.60	9.53	9.81	9.94	9.66	9.37	9.38	9.83	9.84	9.75
21	9.79	9.59	9.59	9.53	9.84	9.93	9.65	9.36	9.37	9.82	9.82	9.73
22	9.79	9.59	9.58	9.53	9.85	9.94	9.63	9.35	9.37	9.82	9.81	9.72
23	9.80	9.57	9.57	9.53	9.85	9.95	9.61	9.33	9.39	9.83	9.80	9.73
24	9.75	9.63	9.57	9.53	9.83	9.93	9.66	9.32	9.39	9.83	9.81	9.74
25	9.76	9.64	9.56	9.52	9.83	9.91	9.65	9.36	9.39	9.82	9.81	9.76
26	9.75	9.62	9.56	9.50	9.83	9.90	9.66	9.43	9.42	9.81	9.80	9.78
27	9.75	9.59	9.55	9.51	9.83	9.88	9.60	9.54	9.44	9.80	9.79	9.84
28	9.74	9.57	9.54	9.51	9.82	9.88	9.58	9.51	9.44	9.80	9.77	9.86
29	9.73	9.57	9.54	9.53	---	9.89	9.55	9.48	9.44	9.81	9.75	9.90
30	9.72	9.56	9.53	9.55	---	9.89	9.54	9.46	9.43	9.85	9.80	9.92
31	9.72	---	9.52	9.55	---	9.91	---	9.43	---	9.95	9.85	---
MEAN	9.82	9.65	9.55	9.51	9.67	9.94	9.72	9.41	9.39	9.66	9.91	9.81
MAX	9.88	9.76	9.62	9.55	9.85	10.10	9.92	9.54	9.47	9.95	10.06	9.92
MIN	9.72	9.56	9.51	9.47	9.53	9.81	9.54	9.30	9.30	9.45	9.75	9.72

CAL YR 1977 MEAN 8.99 MAX 9.88 MIN 7.85
WTR YR 1978 MEAN 9.67 MAX 10.10 MIN 9.30

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02289060 TAMAMI 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 (15 m) west of bridge 53 on U.S. Highway 41, and 22.8 mi (36.7 km) 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 (0.244 m) 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 (6.4 km) to the west.

REMARKS.--Records fair. Figures of daily discharge consist entirely of seepage through levee 29 from Conservation Area 3B 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.--38 years, 232 ft³/s (6.57 m³/s), 168,000 acre-ft/yr (207 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 450 ft³/s (12.7 m³/s) Oct. 18, 1968; maximum gage height, 9.76 ft (2.975 m) Nov. 1, 1960; maximum daily reverse flow, 7.0 ft³/s (0.20 m³/s) estimated, May 11, 12, 1964; minimum gage height, 1.66 ft (0.506 m) May 13, 14, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 386 ft³/s (10.9 m³/s) Aug. 13; maximum gage height, 7.33 ft (2.234 m) Aug. 3; minimum daily discharge 2.2 ft³/s (0.062 m³/s) Apr. 13; minimum gage height, 6.01 ft (1.832 m) May 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	65	57	47	37	53	17	26	19	40	60	349
2	106	70	57	46	37	49	16	25	17	41	71	350
3	102	68	56	47	36	55	15	24	17	40	73	357
4	93	65	54	46	35	64	13	23	20	38	77	358
5	88	60	53	46	37	59	12	24	27	37	83	360
6	84	58	61	47	37	53	11	23	26	35	93	369
7	88	58	60	47	35	52	8.8	22	27	34	94	373
8	88	53	59	49	35	51	7.8	19	27	33	99	365
9	88	50	59	52	41	68	6.8	18	26	32	111	365
10	88	44	65	48	38	78	5.2	15	25	31	123	365
11	88	45	62	48	36	67	3.9	13	24	30	291	360
12	88	48	61	46	35	65	3.1	12	25	30	371	365
13	79	45	60	45	34	64	2.2	12	26	29	386	357
14	79	44	60	57	34	61	3.1	11	24	31	381	367
15	68	48	60	51	33	59	6.8	7.9	23	31	374	374
16	65	50	59	49	32	56	7.2	5.6	23	33	381	380
17	60	53	63	50	32	53	9.4	3.4	21	34	381	372
18	60	50	68	49	42	47	14	6.4	26	35	373	371
19	60	50	64	47	59	47	15	14	39	34	373	359
20	65	50	62	64	54	43	16	14	37	34	370	357
21	75	50	62	57	58	43	14	12	37	35	366	346
22	70	48	59	53	60	39	13	9.6	40	41	365	282
23	68	48	57	51	56	35	13	8.2	40	45	363	195
24	70	50	57	51	55	32	29	6.9	38	45	374	168
25	68	50	54	51	55	31	34	6.4	42	43	365	155
26	65	48	52	48	56	29	33	11	52	41	357	158
27	60	50	49	45	54	29	31	12	52	41	356	140
28	65	50	47	43	54	24	28	17	50	41	348	147
29	60	55	45	42	---	21	28	17	46	45	342	193
30	60	58	45	40	---	19	27	17	43	49	351	193
31	58	---	45	38	---	19	---	18	---	51	348	---
TOTAL	2358	1581	1772	1500	1207	1465	443.3	453.4	939	1159	8500	9250
MEAN	76.1	52.7	57.2	48.4	43.1	47.3	14.8	14.6	31.3	37.4	274	308
MAX	106	70	68	64	60	78	34	26	52	51	386	380
MIN	58	44	45	38	32	19	2.2	3.4	17	29	60	140
AC-FT	4680	3140	3510	2980	2390	2910	879	899	1860	2300	16860	18350

CAL YR 1977	TOTAL	13104.73	MEAN	35.9	MAX	135	MIN	.00	AC-FT	25990
WTR YR 1978	TOTAL	30627.70	MEAN	83.9	MAX	386	MIN	2.2	AC-FT	60750

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02289060 TAMAMI CANAL OUTLETS, LEVEE 30 TO LEVEE 67A, NEAR MIAMI, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.82	6.60	6.58	6.54	6.50	6.55	6.40	6.36	6.29	6.57	6.59	7.10
2	6.81	6.62	6.58	6.54	6.50	6.54	6.38	6.35	6.28	6.58	6.62	7.11
3	6.80	6.62	6.57	6.54	6.50	6.56	6.36	6.34	6.27	6.57	6.68	7.12
4	6.77	6.61	6.57	6.53	6.49	6.60	6.35	6.33	6.31	6.57	6.63	7.12
5	6.76	6.60	6.56	6.53	6.50	6.58	6.34	6.34	6.39	6.56	6.64	7.13
6	6.74	6.59	6.58	6.53	6.50	6.57	6.32	6.33	6.39	6.56	6.66	7.14
7	6.74	6.59	6.58	6.53	6.49	6.56	6.31	6.31	6.40	6.55	6.66	7.15
8	6.73	6.57	6.58	6.53	6.49	6.56	6.29	6.28	6.40	6.54	6.66	7.15
9	6.72	6.56	6.58	6.55	6.52	6.62	6.28	6.26	6.39	6.55	6.73	7.15
10	6.71	6.54	6.60	6.53	6.51	6.65	6.26	6.23	6.39	6.54	6.69	7.15
11	6.70	6.55	6.59	6.52	6.50	6.63	6.23	6.20	6.38	6.53	6.89	7.15
12	6.69	6.56	6.58	6.52	6.49	6.62	6.21	6.19	6.39	6.52	7.01	7.16
13	6.67	6.55	6.58	6.51	6.48	6.62	6.19	6.19	6.40	6.52	7.02	7.16
14	6.65	6.54	6.58	6.56	6.48	6.62	6.19	6.18	6.39	6.52	7.03	7.17
15	6.64	6.56	6.58	6.55	6.46	6.61	6.25	6.14	6.38	6.52	7.03	7.19
16	6.62	6.57	6.58	6.54	6.46	6.61	6.24	6.09	6.37	6.52	7.04	7.20
17	6.61	6.58	6.60	6.54	6.46	6.59	6.26	6.06	6.35	6.53	7.05	7.20
18	6.61	6.58	6.62	6.54	6.51	6.58	6.31	6.10	6.40	6.53	7.05	7.20
19	6.60	6.57	6.61	6.54	6.59	6.58	6.32	6.21	6.52	6.52	7.05	7.19
20	6.61	6.56	6.60	6.61	6.57	6.57	6.31	6.21	6.51	6.51	7.06	7.19
21	6.64	6.56	6.60	6.58	6.59	6.57	6.28	6.20	6.52	6.52	7.06	7.19
22	6.63	6.55	6.59	6.58	6.58	6.56	6.25	6.17	6.54	6.55	7.06	7.11
23	6.62	6.55	6.58	6.57	6.57	6.53	6.24	6.15	6.54	6.57	7.07	7.01
24	6.62	6.54	6.58	6.57	6.57	6.52	6.41	6.13	6.54	6.56	7.08	6.98
25	6.61	6.54	6.58	6.57	6.56	6.51	6.45	6.12	6.56	6.55	7.08	6.98
26	6.60	6.55	6.57	6.57	6.56	6.50	6.43	6.18	6.61	6.54	7.08	6.98
27	6.59	6.56	6.56	6.55	6.55	6.50	6.40	6.20	6.61	6.53	7.08	6.97
28	6.59	6.56	6.55	6.54	6.55	6.46	6.39	6.26	6.61	6.52	7.08	6.97
29	6.58	6.57	6.54	6.53	---	6.42	6.38	6.27	6.59	6.54	7.08	7.03
30	6.58	6.58	6.54	6.52	---	6.40	6.37	6.26	6.58	6.56	7.09	7.04
31	6.57	---	6.54	6.51	---	6.40	---	6.28	---	6.56	7.10	---
MEAN	6.67	6.57	6.58	6.54	6.52	6.55	6.31	6.22	6.44	6.54	6.92	7.11
MAX	6.82	6.62	6.62	6.61	6.59	6.65	6.45	6.36	6.61	6.58	7.10	7.20
MIN	6.57	6.54	6.54	6.51	6.46	6.40	6.19	6.06	6.27	6.51	6.59	6.97

CAL YR 1977	MEAN 6.30	MAX 6.92	MIN 4.29
WTR YR 1978	MEAN 6.58	MAX 7.20	MIN 6.06

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

254754080344300 SHARK RIVER SLOUGH NO. 1 IN CONSERVATION AREA 3B NEAR COOPERTOWN, FL (revised)

LOCATION.--Lat 25°47'54", long 80°34'43", in SW¼ sec.30, T.53 S., R.38 E., Dade County, Hydrologic Unit 03090202, 2.8 mi (4.5 km) northwest of Coopertown on east-west ditch in Conservation Area 3B.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1976 to current year (gage heights). 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 (2.554 m) Sept. 29, 1978; minimum, 5.64 ft (1.719 m) May 3, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 8.38 ft (2.554 m) Sept. 29; minimum, 6.65 ft (2.027 m) estimated, May 18.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.50	7.01	7.02	6.95	7.01	7.08	7.01	6.95	6.83	7.19	7.21	7.61
2	7.50	7.00	7.01	6.95	7.00	7.08	6.99	6.94	6.86	7.19	7.24	7.61
3	7.50	6.99	7.00	6.95	6.99	7.08	6.98	6.93	6.89	7.18	7.27	7.62
4	7.36	7.02	6.99	6.95	6.99	7.14	6.97	6.90	6.92	7.18	7.30	7.62
5	7.34	7.10	6.98	6.95	6.99	7.13	6.95	6.85	6.94	7.18	7.34	7.65
6	7.33	7.10	7.01	6.94	7.00	7.12	6.94	6.83	6.96	7.17	7.35	7.66
7	7.32	7.08	7.02	6.93	6.98	7.08	6.92	6.81	6.97	7.17	7.36	7.68
8	7.31	7.06	7.01	6.94	6.98	7.01	6.90	6.80	6.99	7.17	7.33	7.68
9	7.31	7.06	7.01	7.03	7.02	7.09	6.84	6.79	7.00	7.16	7.34	7.68
10	7.30	7.05	7.06	7.03	7.01	7.20	6.84	6.77	7.01	7.16	7.34	7.68
11	7.28	7.03	7.05	7.01	7.00	7.18	6.83	6.76	7.01	7.15	7.35	7.68
12	7.26	7.01	7.04	7.01	6.99	7.17	6.83	6.75	7.00	7.14	7.41	7.68
13	7.23	6.99	7.03	7.03	6.99	7.17	6.81	6.74	6.99	7.13	7.46	7.68
14	7.18	6.98	7.03	7.07	6.98	7.15	6.78	6.72	6.99	7.12	7.48	7.71
15	7.18	6.97	7.02	7.07	6.96	7.14	6.76	6.70	6.98	7.11	7.48	8.00
16	7.13	6.97	7.02	7.06	6.96	7.13	6.75	6.69	6.97	7.11	7.48	8.03
17	7.11	6.96	7.04	7.06	6.95	7.11	6.74	6.67	6.98	7.12	7.49	8.04
18	7.10	6.96	7.08	7.05	6.99	7.08	6.75	6.65	7.00	7.12	7.50	8.04
19	7.09	6.96	7.07	7.04	7.08	7.07	6.76	6.70	7.04	7.13	7.50	8.04
20	7.07	6.95	7.07	7.14	7.09	7.07	6.77	6.77	7.07	7.13	7.50	8.03
21	7.06	6.94	7.06	7.14	7.12	7.06	6.76	6.76	7.10	7.14	7.49	8.03
22	7.08	6.94	7.04	7.14	7.14	7.05	6.75	6.76	7.11	7.14	7.49	8.04
23	7.11	6.94	7.03	7.13	7.13	7.03	6.77	6.75	7.12	7.15	7.51	8.10
24	7.11	7.00	7.01	7.12	7.12	7.02	6.85	6.75	7.13	7.16	7.54	8.09
25	7.10	7.04	7.01	7.11	7.11	7.01	6.95	6.74	7.16	7.16	7.55	8.10
26	7.09	7.04	7.00	7.10	7.11	7.00	6.99	6.73	7.18	7.17	7.55	8.13
27	7.08	7.04	6.99	7.09	7.10	6.99	7.00	6.72	7.20	7.17	7.55	8.13
28	7.07	7.03	6.98	7.06	7.09	6.99	6.99	6.70	7.21	7.18	7.55	8.13
29	7.05	7.03	6.97	7.04	---	7.00	6.98	6.74	7.21	7.19	7.55	8.23
30	7.04	7.03	6.96	7.03	---	6.99	6.96	6.76	7.20	7.19	7.56	8.25
31	7.03	---	6.95	7.02	---	6.99	---	6.80	---	7.20	7.60	---
MEAN	7.20	7.01	7.02	7.04	7.03	7.08	6.87	6.77	7.03	7.16	7.44	7.89
MAX	7.50	7.10	7.08	7.14	7.14	7.20	7.01	6.95	7.21	7.20	7.60	8.25
MIN	7.03	6.94	6.95	6.93	6.95	6.99	6.74	6.65	6.83	7.11	7.21	7.61

CAL YR 1977 MEAN 6.79 MAX 7.52 MIN 5.64
WTR YR 1978 MEAN 7.13 MAX 8.25 MIN 6.65

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

02289090 TAMAMI CANAL WEST OF LEVEE 30, NEAR MIAMI, FL

LOCATION.--Lat 25°45'40", long 80°29'50", in SE¼ sec.2, T.54 S., R.38 E., Dade County, Hydrologic Unit 03090202, on south bank, 75 ft (23 m) west of levee 30 on U.S. Highway 41, and 18 mi (29.0 km) west of Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1954 to September 1958 (weekly) and October 1958 to current year (twice monthly), gage heights. Records of gage heights prior to October 1962 are available in files of the Geological Survey.

GAGE.--Nonrecording gage read twice monthly. Datum of gage is National Geodetic Vertical Datum of 1929 (Dade County bench mark).

REMARKS.--Station is one of several located at various points along Tamiami Canal and is primarily for water-level observation.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 10.02 ft (3.054 m) Oct. 17, 1960; minimum observed, 2.72 ft (0.829 m) Apr. 27, 1962.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	DATE	TIME	STREAM STAGE (FT ABOVE DATUM)
OCT , 1977			APR , 1978		
12...	0740	6.41	11...	0655	6.01
28...	0840	6.64	27...	0735	5.90
NOV			MAY		
10...	0800	6.15	30...	1135	5.62
29...	1300	6.16	JUN		
DEC			12...	0735	5.56
12...	0844	6.10	13...	1500	5.70
29...	1000	6.02	29...	0715	6.28
JAN , 1978			JUL		
13...	1200	5.88	10...	0800	6.26
27...	0815	5.98	AUG		
FEB			31...	1120	6.74
13...	0800	5.74	SEP		
27...	0800	6.01	28...	1330	6.80
MAR					
13...	0720	6.18			
30...	0800	6.12			

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02289250 TAMiami CANAL EAST OF LEVEE 30, NEAR MIAMI, FL

LOCATION.--Lat 25°45'40", long 80°29'40", in SW¼ sec.1, T.54 S., R.38 E., Dade County, Hydrologic Unit 03090202, on south bank, 1,000 ft (305 m) east of levee 30 on U.S. Highway 41, and 18 mi (29 km) west of Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--September 1954 to September 1958 (weekly) and October 1958 to current year (twice monthly), gage heights. Records of gage heights prior to October 1962 are available in files of the Geological Survey.

GAGE.--Nonrecording gage read twice monthly. Datum of gage is National Geodetic Vertical Datum of 1929 (Dade County bench mark).

REMARKS.--Station is one of several located at various points along Tamiami Canal and is primarily for water-level observations.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 9.37 ft (2.856 m) Oct. 17, 1960; minimum observed, 2.50 ft (0.762 m) Apr. 29, 1974.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	DATE	TIME	STREAM STAGE (FT ABOVE DATUM)
OCT , 1977			APR , 1978		
12...	0740	6.70	11...	0655	6.20
NOV			27...	0735	7.43
10...	0800	6.57	MAY		
29...	1300	6.56	11...	0800	6.21
DEC			30...	1130	6.26
12...	0844	6.58	JUN		
29...	1000	6.61	12...	0735	6.38
JAN , 1978			29...	0715	6.58
27...	0815	6.58	JUL		
FEB			10...	0800	6.52
13...	0800	6.45	AUG		
27...	0800	6.54	30...	1120	7.11
MAR					
13...	0720	6.61			
30...	0800	6.50			

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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 (8 m) from south bank, half a mile upstream from Coral Gables Canal, 2.5 mi (4.0 km) west of Coral Gables, 3.5 mi (5.6 km) downstream from Snapper Creek Canal, and 6.2 mi (10.0 km) 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. 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 (0.067 m) lower.

REMARKS.--Records poor. The flow is slightly affected by tide and is regulated by control structure at Dade-Broward Levee 7.5 mi (12.1 km) upstream and at salinity-control structure S-25, 1.2 mi (1.9 km) downstream. The canal is blocked by levee 30, 10.5 mi (16.9 km) upstream. Flow is diverted to and from Snapper Creek Canal 3.5 mi (5.6 km) upstream.

COOPERATION.--Records of salinity-control structure operation furnished by South Florida Water Management District.

AVERAGE DISCHARGE.--19 years, 130 ft³/s (3.68 m³/s) 94,120 acre-ft/yr (116 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 554 ft³/s (15.7 m³/s) Sept. 23, 1960; maximum gage height, 6.00 ft (1.829 m) Sept. 10, 1960; maximum daily reverse flow 28 ft³/s (0.79 m³/s) May 4, 5, 6, 1975; minimum gage height, 1.08 ft (0.329 m) May 31, 1962.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 8.49 ft (2.588 m) Oct. 12, 1947, present datum, from nonrecording gage reading.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 323 ft³/s (9.15 m³/s) Dec. 20; maximum gage height, 3.71 ft (1.131 m) June 18; minimum daily discharge, 74 ft³/s (2.10 m³/s) Oct. 14; minimum gage height, 2.63 ft (0.802 m) Oct. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	161	182	214	130	93	131	116	164	253	191	195
2	121	167	179	205	129	96	130	122	165	256	198	198
3	115	174	186	199	128	109	130	134	168	261	205	199
4	112	180	200	192	125	116	128	135	171	271	195	199
5	106	194	208	185	123	125	124	135	183	269	192	204
6	101	195	216	175	123	133	122	137	189	272	217	208
7	106	198	220	166	121	140	118	138	181	274	220	212
8	97	202	228	162	120	152	115	137	176	266	216	212
9	90	207	241	161	121	160	110	136	172	255	209	210
10	87	212	252	153	117	167	108	135	172	251	202	209
11	89	216	257	151	112	168	104	138	182	242	199	207
12	83	220	263	150	107	164	103	141	185	231	197	206
13	85	224	270	150	102	160	102	145	188	227	194	209
14	74	229	275	146	103	157	104	147	193	225	193	213
15	81	233	277	146	109	154	102	146	189	221	191	221
16	78	238	284	148	108	149	102	144	188	218	190	233
17	76	243	300	145	109	158	100	143	195	214	191	231
18	81	250	314	142	115	152	102	150	215	212	189	226
19	81	256	319	141	137	156	104	166	260	211	190	221
20	89	262	323	149	127	146	105	175	248	213	191	217
21	85	267	322	145	122	151	107	174	245	211	191	213
22	104	266	310	145	116	148	109	169	244	211	194	208
23	106	256	299	144	110	146	111	165	246	212	200	205
24	112	247	291	143	105	146	113	160	252	211	209	201
25	119	238	282	141	103	140	115	162	255	209	204	202
26	129	228	272	139	100	140	116	170	254	206	199	211
27	136	219	262	137	100	136	116	164	257	203	197	209
28	142	210	250	135	96	136	115	172	262	200	195	204
29	147	200	239	131	---	131	115	175	261	197	194	208
30	152	191	231	132	---	130	114	166	260	197	195	214
31	156	---	221	132	---	128	---	163	---	193	195	---
TOTAL	3271	6583	7973	4804	3218	4387	3375	4660	6320	7092	6143	6305
MEAN	106	219	257	155	115	142	113	150	211	229	198	210
MAX	156	267	323	214	137	168	131	175	262	274	220	233
MIN	74	161	179	131	96	93	100	116	164	193	189	195
AC-FT	6490	13060	15810	9530	6380	8700	6690	9240	12540	14070	12180	12510

CAL YR 1977	TOTAL	48773.9	MEAN	134	MAX	377	MIN	3.9	AC-FT	96740
WTR YR 1978	TOTAL	64131.0	MEAN	176	MAX	323	MIN	74	AC-FT	127200

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02289500 TAMIAHI CANAL NEAR CORAL GABLES, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.92	2.87	2.81	2.79	2.92	2.85	2.95	2.75	2.90	3.16	2.98	2.97
2	2.85	2.88	2.79	2.78	2.92	2.85	2.96	2.80	2.90	3.16	3.07	2.99
3	2.81	2.89	2.79	2.80	2.92	2.91	2.97	2.92	2.92	3.18	3.14	3.00
4	2.80	2.90	2.87	2.81	2.90	2.91	2.97	2.92	2.94	3.30	3.06	2.99
5	2.77	2.99	2.88	2.81	2.89	2.93	2.95	2.90	3.05	3.30	3.04	3.04
6	2.74	2.95	2.90	2.79	2.90	2.94	2.94	2.91	3.10	3.34	3.28	3.08
7	2.81	2.93	2.87	2.78	2.89	2.94	2.92	2.91	3.01	3.39	3.31	3.11
8	2.75	2.92	2.88	2.81	2.89	2.99	2.90	2.89	2.95	3.32	3.27	3.11
9	2.70	2.92	2.95	2.88	2.92	3.01	2.87	2.87	2.90	3.22	3.19	3.08
10	2.69	2.91	2.99	2.88	2.89	3.01	2.86	2.85	2.89	3.20	3.12	3.07
11	2.74	2.90	2.97	2.90	2.85	2.99	2.84	2.87	2.97	3.13	3.07	3.04
12	2.70	2.89	2.97	2.90	2.81	2.96	2.83	2.89	2.97	3.04	3.06	3.03
13	2.74	2.88	2.97	2.91	2.76	2.94	2.81	2.92	2.97	3.01	3.03	3.06
14	2.66	2.88	2.95	2.88	2.79	2.93	2.82	2.93	2.99	3.00	3.00	3.10
15	2.75	2.87	2.91	2.90	2.86	2.91	2.79	2.91	2.92	2.99	2.99	3.18
16	2.74	2.86	2.91	2.93	2.86	2.88	2.78	2.88	2.88	2.97	2.98	3.30
17	2.75	2.86	3.01	2.91	2.88	2.98	2.75	2.85	2.92	2.95	2.97	3.28
18	2.78	2.88	3.08	2.89	2.95	2.94	2.75	2.92	3.10	2.94	2.96	3.22
19	2.73	2.89	3.06	2.89	3.19	3.00	2.76	3.07	3.53	2.94	2.95	3.16
20	2.76	2.90	3.04	2.98	3.10	2.91	2.76	3.15	3.38	2.99	2.96	3.11
21	2.67	2.90	3.03	2.95	3.06	2.98	2.77	3.13	3.32	2.99	2.96	3.07
22	2.81	2.90	2.99	2.96	3.01	2.96	2.78	3.07	3.28	3.00	2.98	3.02
23	2.78	2.89	2.96	2.96	2.96	2.96	2.79	3.01	3.27	3.03	3.04	2.98
24	2.79	2.88	2.95	2.96	2.92	2.98	2.80	2.95	3.30	3.04	3.14	2.94
25	2.81	2.87	2.94	2.95	2.91	2.93	2.81	2.96	3.30	3.03	3.08	2.95
26	2.85	2.86	2.92	2.94	2.89	2.95	2.81	3.03	3.26	3.02	3.02	3.03
27	2.87	2.85	2.89	2.94	2.90	2.92	2.80	2.96	3.26	3.00	2.99	3.01
28	2.88	2.84	2.85	2.93	2.87	2.94	2.78	3.03	3.28	2.99	2.98	2.95
29	2.88	2.83	2.81	2.90	---	2.90	2.77	3.05	3.24	2.98	2.96	2.99
30	2.88	2.82	2.81	2.92	---	2.91	2.75	2.95	3.20	2.99	2.96	3.05
31	2.87	---	2.79	2.93	---	2.91	---	2.91	---	2.98	2.96	---
MEAN	2.78	2.89	2.92	2.89	2.91	2.94	2.83	2.94	3.10	3.08	3.05	3.06
MAX	2.92	2.99	3.08	2.98	3.19	3.01	2.97	3.15	3.53	3.39	3.31	3.30
MIN	2.66	2.82	2.79	2.78	2.76	2.85	2.75	2.75	2.88	2.94	2.95	2.94

CAL YR 1977	MEAN 2.84	MAX 3.95	MIN 2.08
WTR YR 1978	MEAN 2.95	MAX 3.53	MIN 2.66

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290500 TAMIAI CANAL AT RED ROAD, MIAMI, FL

LOCATION.--Lat 25°46'49", long 80°17'20", in lot 1, T.53 S., R.40 E., Dade County, Hydrologic Unit 03090202, on right bank, 100 ft (30 m) downstream from bridge at Red Road (N.W. 57th Avenue) in Miami, 1.5 mi (2.4 km) upstream from salinity-control structure S-25, and 3 mi (5 km) upstream from mouth at North Fork Miami River.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1940 to June 1943; July 1943 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 Jan. 14, 1963, water-stage recorder at site 100 ft (30 m) downstream at same datum. Jan. 14, 1963 to Aug. 10, 1973 at site 140 ft (43 m) west at same datum.

REMARKS.--Stage is occasionally tidal, and is affected by operation of salinity-control structure S-25, 1.5 mi (2.4 km) downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 6.00 ft (1.829 m) Oct. 15, 1947 (hurricane flood); minimum, -0.52 ft (-0.158 m) Mar. 22, 1945.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 3.31 ft (1.009 m) June 18; minimum, 2.60 ft (0.792 m) Oct. 11, 14, 21.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.79	2.80	2.82	2.73	2.94	2.95	2.99	2.73	2.92	2.95	2.90	2.99
2	2.70	2.78	2.73	2.72	2.98	2.91	3.00	2.92	2.95	2.94	2.94	2.99
3	2.73	2.80	2.81	2.74	2.98	2.94	3.00	2.95	2.96	2.97	2.96	2.96
4	2.82	2.76	2.93	2.76	2.94	2.92	2.99	2.97	2.98	3.02	2.94	2.95
5	2.71	2.80	2.95	2.75	2.88	2.80	2.98	2.88	2.96	3.05	2.94	2.96
6	2.73	2.79	2.97	2.74	2.90	2.89	2.96	2.95	2.98	3.04	3.00	2.96
7	2.79	2.80	2.88	2.73	2.92	2.93	2.95	2.96	2.90	3.04	3.04	2.98
8	2.71	2.82	2.87	2.81	2.94	3.00	2.94	2.95	2.84	3.06	3.02	2.99
9	2.67	2.82	2.96	2.90	2.89	2.94	2.93	2.93	2.80	2.99	2.95	2.97
10	2.74	2.88	2.93	2.89	2.86	2.91	2.92	2.92	2.86	2.95	2.93	2.97
11	2.75	2.90	2.90	2.90	2.81	2.85	2.89	2.92	2.99	2.91	2.92	2.95
12	2.78	2.85	2.91	2.91	2.77	2.82	2.87	2.93	2.94	2.86	2.92	2.95
13	2.79	2.90	2.91	2.90	2.73	2.79	2.85	2.95	2.84	2.88	2.92	2.96
14	2.72	2.91	2.86	2.82	2.79	2.78	2.85	2.97	2.88	2.92	2.93	2.98
15	2.82	2.97	2.77	2.89	2.92	2.76	2.86	2.98	2.84	2.93	2.95	3.00
16	2.80	2.91	2.86	2.95	2.93	2.73	2.88	2.94	2.87	2.93	2.97	2.99
17	2.82	2.93	2.94	2.89	2.92	2.96	2.88	2.92	2.97	2.95	2.97	2.98
18	2.86	2.87	2.97	2.86	2.87	2.88	2.86	2.92	3.05	2.93	2.96	2.97
19	2.76	2.73	2.97	2.88	2.89	2.98	2.87	2.90	3.15	2.89	2.95	2.96
20	2.81	2.86	2.96	2.89	2.90	2.83	2.88	2.91	3.10	2.96	2.99	2.95
21	2.69	2.93	2.94	2.82	2.91	2.99	2.85	2.92	3.08	2.94	2.99	2.94
22	2.82	2.89	2.91	2.88	2.88	2.93	2.81	2.93	3.08	2.93	2.96	2.95
23	2.71	2.89	2.87	2.90	2.87	2.96	2.79	2.95	3.02	2.94	2.95	2.97
24	2.77	3.07	2.86	2.91	2.89	2.99	2.95	2.93	3.04	2.93	2.97	2.98
25	2.77	3.00	2.86	2.91	2.93	2.90	3.00	2.90	3.06	2.92	2.93	2.98
26	2.78	2.99	2.84	2.90	2.92	2.98	2.91	2.91	3.02	2.93	2.93	2.97
27	2.76	2.95	2.81	2.92	2.98	2.92	2.83	2.91	3.04	2.92	2.94	2.97
28	2.75	2.83	2.77	2.92	2.97	2.96	2.90	2.90	3.07	2.92	2.97	2.96
29	2.76	2.87	2.74	2.89	---	2.85	2.87	2.89	3.05	2.92	2.95	2.95
30	2.76	2.91	2.73	2.93	---	2.94	2.90	2.88	3.02	2.95	2.97	2.96
31	2.77	---	2.73	2.97	---	2.92	---	2.90	---	2.93	2.95	---
MEAN	2.76	2.87	2.87	2.86	2.90	2.90	2.91	2.92	2.98	2.95	2.96	2.97
MAX	2.86	3.07	2.97	2.97	2.98	3.00	3.00	2.98	3.15	3.06	3.04	3.00
MIN	2.67	2.73	2.73	2.72	2.73	2.73	2.79	2.73	2.80	2.86	2.90	2.94

CAL YR 1977 MEAN 2.78 MAX 3.29 MIN 2.15
WTR YR 1978 MEAN 2.90 MAX 3.15 MIN 2.67

02290510 MIAMI CANAL AT N.W. 27TH AVENUE, MIAMI, FL

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1945 to current year (gage heights). Published since October 1962. 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 (Dade County bench mark).

REMARKS.--Stage is basically tidal, but is occasionally affected by inflow from upstream lateral canals and operation of salinity-control structures during high flow.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 5.38 ft (1.640 m) Sept. 8, 1965; minimum, -1.72 ft (-0.524 m) Jan. 31, 1975.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1926, 7.66 ft (2.335 m) Sept. 26, 1926, (due to hurricane tide).

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 2.28 ft (0.695 m) Nov. 14; minimum, -1.65 ft (-0.503 m) Jan. 10.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.89	1.80	1.11	1.27	.62	1.34	1.15	1.37	1.40	1.38	1.17	1.44
2	1.72	1.94	1.02	1.28	.68	1.33	1.02	1.36	1.37	1.35	1.18	1.61
3	1.54	1.88	.89	1.23	1.05	1.53	1.04	1.40	1.26	1.31	1.22	1.42
4	1.71	1.79	1.06	1.27	1.30	1.45	1.01	1.42	1.26	1.09	1.39	1.38
5	1.57	1.69	1.30	1.39	1.57	1.26	1.29	1.45	1.34	1.07	1.30	1.39
6	1.57	1.77	1.37	1.50	1.84	1.63	1.28	1.17	1.17	1.08	1.31	1.43
7	1.53	1.82	1.34	1.72	1.87	1.87	1.20	1.25	1.19	1.03	1.24	1.19
8	1.71	1.86	1.67	1.89	2.26	1.75	1.39	1.48	1.01	.94	1.26	1.11
9	1.72	1.93	1.96	1.37	1.95	1.67	1.34	1.23	1.07	1.16	1.02	1.27
10	1.79	1.92	1.74	1.43	1.80	1.49	1.16	.99	1.19	1.21	1.02	1.52
11	1.63	1.72	1.84	1.50	1.85	1.56	1.06	1.10	1.07	1.24	1.00	1.28
12	1.68	1.91	2.24	1.59	1.60	1.41	.89	1.04	1.17	1.14	.94	1.39
13	1.59	2.18	2.15	1.61	1.30	1.34	.96	.82	1.25	1.29	1.12	1.64
14	1.57	2.28	1.88	1.21	1.05	1.41	.82	.75	1.33	1.29	1.40	1.73
15	1.87	2.17	1.68	.83	1.20	1.25	.82	.84	1.37	1.38	1.48	1.94
16	1.75	2.01	1.57	.74	1.00	.97	.75	1.02	1.50	1.37	1.63	2.19
17	1.63	1.82	1.50	.81	1.20	.59	.84	1.28	1.53	1.42	1.87	2.22
18	1.42	1.55	1.38	.68	1.22	.52	.99	1.22	2.07	1.40	1.90	2.07
19	1.34	1.65	1.33	.92	1.24	.60	1.17	1.47	2.03	1.63	1.91	1.80
20	1.34	1.69	1.44	.61	1.25	1.15	1.30	1.70	2.04	1.95	1.80	1.83
21	1.28	1.66	1.45	.48	1.10	1.24	1.69	1.92	2.07	1.90	1.83	1.77
22	1.41	1.78	1.47	.77	1.25	1.40	1.56	1.81	1.85	1.75	1.58	1.47
23	1.66	1.74	1.31	.96	1.40	1.60	1.90	1.89	2.01	1.75	1.65	1.43
24	1.77	1.66	1.48	1.21	1.50	1.59	1.75	1.66	1.98	1.62	1.43	1.24
25	1.84	1.69	1.46	1.39	1.35	1.62	1.86	1.59	2.02	1.44	1.31	1.46
26	1.77	1.46	1.43	.66	1.40	1.58	1.56	1.54	1.84	1.49	1.36	1.53
27	1.59	1.63	1.26	.75	1.38	1.32	1.44	1.48	1.54	1.45	1.38	1.58
28	1.63	1.50	1.34	.74	1.36	1.19	1.34	1.42	1.50	1.18	1.34	1.81
29	1.61	1.60	1.31	.70	---	1.35	1.23	1.54	1.35	1.25	1.55	1.93
30	1.41	1.30	1.54	.59	---	1.13	1.32	1.53	1.45	1.00	1.37	2.11
31	1.60	---	1.19	.52	---	1.10	---	1.38	---	1.20	1.41	---
MEAN	1.62	1.78	1.47	1.08	1.38	1.33	1.24	1.36	1.51	1.35	1.40	1.61
MAX	1.89	2.28	2.24	1.89	2.26	1.87	1.90	1.92	2.07	1.95	1.91	2.22
MIN	1.28	1.30	.89	.48	.62	.52	.75	.75	1.01	.94	.94	1.11

CAL	YR	1977	MEAN	1.44	MAX	2.46	MIN	.24
WTR	YR	1978	MEAN	1.43	MAX	2.28	MIN	.48

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290510 MIAMI CANAL AT N.W. 27TH AVENUE, MIAMI, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
TIDAL LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-.49	-.42	-.66	-.78	-1.54	-.90	-1.10	-.79	-.96	-.87	-.87	-.79
2	-.38	.07	-.74	-.83	-1.46	-.80	-1.26	-.98	-1.00	-.85	-.93	-.88
3	-.45	.25	-.88	-.90	-1.43	-.70	-1.21	-1.02	-1.23	-.89	-.93	-.88
4	-.10	.08	-.73	-.93	-1.02	-1.07	-1.39	-1.06	-1.12	-1.04	-.82	-.95
5	-.09	-.09	-.83	-1.13	-1.19	-.93	-1.41	-1.57	-1.10	-1.19	-1.05	-1.03
6	-.08	-.36	-1.23	-1.17	-1.27	-1.27	-1.42	-1.53	-1.07	-1.08	-.86	-.95
7	-.22	-.25	-.79	-1.23	-1.27	-.97	-1.63	-1.42	-.96	-1.18	-.85	-1.12
8	-.15	-.49	-1.18	-1.35	-1.13	-1.09	-1.39	-1.10	-.90	-1.00	-.93	-1.15
9	-.40	-.69	-1.05	-1.59	-.99	-1.01	-1.33	-1.17	-.90	-.86	-1.02	-.90
10	-.52	-.99	-1.34	-1.65	-.95	-1.32	-1.28	-1.19	-.92	-.74	-1.17	-.96
11	-.87	-1.48	-1.33	-1.64	-.80	-1.11	-1.27	-1.11	-.80	-.71	-1.11	-1.00
12	-1.08	-1.29	-1.08	-1.27	-.87	-1.06	-1.21	-1.07	-.72	-.71	-1.26	-1.19
13	-1.32	-1.15	-.95	-1.10	-.85	-.94	-1.04	-1.06	-.54	-.67	-1.12	-.99
14	-1.45	-.99	-.83	-1.25	-.80	-.73	-1.00	-.90	-.65	-.89	-1.13	-.97
15	-1.34	-.59	-.93	-1.34	-.90	-.84	-.89	-.77	-.58	-.85	-1.18	-.92
16	-1.11	-.64	-.89	-1.24	-.75	-.89	-.82	-.65	-.78	-1.11	-1.22	-.83
17	-1.14	-.63	-.85	-1.21	-.82	-1.02	-.72	-.67	-.95	-1.26	-1.19	-.83
18	-1.20	-.72	-.90	-1.05	-.89	-1.03	-.73	-.91	-.87	-1.46	-1.18	-.82
19	-1.07	-.52	-.74	-.74	-.97	-.97	-.86	-.85	-.73	-1.46	-1.08	-.82
20	-1.05	-.54	-.68	-1.06	-1.05	-.74	-1.02	-.99	-1.02	-1.23	-1.18	-.96
21	-.91	-.37	-.32	-1.51	-1.25	-.79	-.99	-1.02	-1.03	-1.22	-1.07	-.65
22	-.93	-.52	-.73	-1.60	-1.30	-.96	-1.35	-1.29	-1.00	-1.26	-1.00	-.57
23	-.73	-.63	-1.07	-1.42	-1.27	-.92	-1.23	-1.26	-1.00	-1.14	-.97	-.42
24	-.71	-.87	-.86	-1.29	-1.20	-.99	-1.24	-1.31	-.83	-1.13	-.71	-.54
25	-.63	-.68	-.82	-1.05	-1.15	-1.22	-1.07	-1.57	-.70	-1.06	-.65	-.35
26	-.84	-.87	-.86	-1.56	-1.13	-1.15	-1.23	-1.38	-.70	-.83	-.51	-.14
27	-.99	-.84	-1.06	-1.64	-1.12	-1.42	-1.37	-1.14	-.79	-.68	-.49	-.24
28	-.82	-.74	-1.05	-1.63	-.95	-1.39	-1.17	-.87	-.70	-.85	-.60	-.21
29	-.95	-.61	-1.08	-1.47	---	-1.27	-1.02	-.81	-.79	-.79	-.43	-.14
30	-.90	-.63	-.63	-1.54	---	-1.25	-.88	-.78	-.70	-1.04	-.70	-.19
31	-.75	---	-.83	-1.53	---	-1.15	---	-.90	---	-1.02	-.81	---
MEAN	-.76	-.61	-.90	-1.28	-1.08	-1.03	-1.15	-1.07	-.87	-1.00	-.94	-.75
MAX	-.08	.25	-.32	-.74	-.75	-.70	-.72	-.65	-.54	-.67	-.43	-.14
MIN	-1.45	-1.48	-1.34	-1.65	-1.54	-1.42	-1.63	-1.57	-1.23	-1.46	-1.26	-1.19
CAL YR 1977	MEAN	-.95	MAX	.25	MIN	-1.57						
WTR YR 1978	MEAN	-.95	MAX	.25	MIN	-1.65						

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290540 BISCAYNE BAY AT COCONUT GROVE, MIAMI, FL

LOCATION.--Lat 25°43'37", long 80°14'05", in SW¼ sec.22, T.54 S., R.41 E., Dade County, Hydrologic Unit 03090202, on sea wall at Dinnier Key Marina, 75 ft (23 m) southwest of Miami City Hall, in Coconut Grove, Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1959 to current year (gage heights). Records of gage heights prior to October 1962 are available in files of the Geological Survey.

GAGE.--Water-state recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Dade County bench mark).

REMARKS.--Gage records water levels and tidal fluctuations in Biscayne Bay. The stage record published is the maximum and minimum tide event for each calendar day.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 7.35 ft (2.240 m) Sept. 8, 1965, from hurricane tide; minimum, -1.70 ft (-0.518 m) Feb. 19, 1972 (estimated).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height known since Nov. 11, 1940, 9.9 ft (3.018 m) Sept. 15, 16, 1945, from hurricane floodmark; minimum known, -1.94 ft (-0.591 m) Jan. 18, 1957, from incomplete records for a former station 1,700 ft (518 m) northwest.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 2.61 ft (0.796 m) Dec. 12; minimum, -1.16 (-0.354 m) Jan. 11, May 2.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
TIDAL HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.14	2.00	1.40	1.49	.82	1.50	1.39	1.63	1.64	1.59	1.46	1.67
2	1.97	2.21	1.24	1.57	.94	1.62	1.24	1.58	1.67	1.61	1.37	1.69
3	1.79	2.15	1.16	1.53	1.33	1.69	1.29	1.69	1.53	1.54	1.69	1.62
4	1.99	2.11	1.35	1.49	1.57	1.57	1.28	1.73	1.47	1.25	1.63	1.60
5	1.86	1.91	1.58	1.65	1.81	1.42	1.56	1.41	1.58	1.28	1.54	1.61
6	1.85	1.98	1.60	1.71	2.04	1.77	1.55	1.36	1.36	1.26	1.57	1.61
7	1.78	2.11	1.55	1.95	2.13	2.07	1.50	1.43	1.44	1.29	1.49	1.45
8	1.98	2.01	1.99	2.18	2.60	1.95	1.60	1.82	1.45	1.40	1.44	1.24
9	1.92	2.14	2.20	1.52	2.10	1.72	1.67	1.82	1.37	1.48	1.35	1.37
10	1.99	2.15	1.89	1.62	1.98	1.67	1.45	1.39	1.42	1.48	1.21	1.63
11	1.83	1.91	2.14	1.57	2.01	1.75	1.45	1.33	1.29	1.34	1.30	1.48
12	1.90	2.07	2.58	1.82	1.92	1.61	1.17	1.27	1.39	1.45	1.20	1.52
13	1.77	2.40	2.45	1.78	1.83	1.62	1.27	1.08	1.47	1.48	1.41	1.84
14	1.82	2.51	2.37	1.41	1.38	1.67	1.11	1.00	1.46	1.55	1.63	1.92
15	2.13	2.58	1.91	.98	1.36	1.45	1.09	1.07	1.70	1.59	1.74	2.06
16	2.04	2.24	1.76	1.01	1.48	1.19	1.04	1.34	1.78	1.60	1.87	2.51
17	1.86	2.01	1.73	1.05	1.27	.77	1.14	1.58	1.77	1.57	2.10	2.54
18	1.70	1.78	1.56	.89	1.46	.68	1.31	1.45	2.24	1.73	2.10	2.34
19	1.57	1.83	1.56	1.17	1.41	.86	1.43	1.57	2.31	1.81	2.14	2.19
20	1.58	1.98	1.65	.74	1.46	1.37	1.52	1.88	2.22	2.05	2.09	2.02
21	1.59	2.00	1.65	.56	1.51	1.51	1.95	2.10	2.30	2.14	2.04	1.99
22	1.76	2.07	1.67	.94	1.26	1.63	1.86	2.05	2.23	2.03	1.99	1.76
23	1.89	1.93	1.56	1.12	1.43	1.84	2.11	2.13	2.14	1.89	1.84	1.65
24	2.06	1.78	1.78	1.41	1.67	1.83	1.88	2.05	2.00	1.70	1.65	1.51
25	2.10	1.80	1.68	1.52	1.64	1.84	1.89	1.75	2.03	1.68	1.50	1.67
26	2.03	1.55	1.68	.83	1.66	1.80	1.93	1.75	1.79	1.70	1.57	1.79
27	1.77	1.84	1.47	1.01	1.61	1.53	1.57	1.61	1.69	1.68	1.59	1.72
28	1.85	1.68	1.55	.96	1.63	1.46	1.46	1.63	1.70	1.44	1.56	2.04
29	1.81	1.84	1.59	.82	---	1.50	1.39	1.69	1.63	1.47	1.73	2.19
30	1.62	1.50	1.72	.83	---	1.40	1.50	1.75	1.67	1.19	1.63	2.41
31	1.80	---	1.43	.82	---	1.33	---	1.63	---	1.33	1.66	---
MEAN	1.86	2.00	1.72	1.29	1.62	1.54	1.49	1.60	1.72	1.57	1.65	1.82
MAX	2.14	2.58	2.58	2.18	2.60	2.07	2.11	2.13	2.31	2.14	2.14	2.54
MIN	1.57	1.50	1.16	.56	.82	.68	1.04	1.00	1.29	1.19	1.20	1.24

CAL YR 1977 MEAN -.04 MAX 2.58 MIN -1.48
WTR YR 1978 MEAN 1.66 MAX 2.60 MIN .56

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290540 BISCAYNE BAY AT COCONUT GROVE, MIAMI, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
TIDAL LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	-.12	-.07	-.34	-.50	-1.09	-.67	-.67	-.51	-.52	-.43	-.52	-.40
2	-.06	.37	-.41	-.53	-1.05	-.38	-.79	-.58	-.51	-.54	-.81	-.46
3	-.09	.57	-.55	-.60	-.89	-.49	-.86	-.58	-.74	-.56	-.48	-.57
4	.21	.43	-.32	-.49	-.95	-.92	-.91	-.62	-.83	-.72	-.43	-.56
5	.33	.15	-.42	-.51	-.70	-.88	-.93	-1.16	-.83	-.87	-.68	-.61
6	.31	.01	-.87	-.73	-.94	-.93	-.94	-.99	-.74	-.78	-.55	-.58
7	.14	-.03	-.97	-.82	-.94	-.64	-1.07	-.93	-.67	-.57	-.49	-.78
8	.19	-.17	-.81	-.87	-.65	-.71	-.95	-.62	-.57	-.62	-.59	-.82
9	-.06	-.32	-.58	-1.12	-.71	-.73	-.83	-.69	-.48	-.48	-.64	-.73
10	-.15	-.59	-.96	-1.15	-.66	-1.14	-.81	-.79	-.54	-.39	-.67	-.53
11	-.46	-1.16	-.86	-1.16	-.57	-.80	-.80	-.61	-.39	-.34	-.69	-.59
12	-.63	-.99	-.62	-.83	-.42	-.76	-.79	-.62	-.32	-.33	-.90	-.64
13	-.84	-.83	-.48	-.68	-.45	-.65	-.70	-.64	-.25	-.48	-.67	-.76
14	-.97	-.46	-.46	-.82	-.57	-.43	-.56	-.52	-.28	-.39	-.64	-.65
15	-.88	-.12	-.53	-.97	-.32	-.53	-.50	-.39	-.16	-.29	-.70	-.62
16	-.66	-.25	-.51	-.83	-.56	-.60	-.36	-.21	-.18	-.60	-.71	-.51
17	-.74	-.24	-.56	-.82	-.47	-.74	-.23	-.23	-.41	-.76	-.71	-.33
18	-.70	-.35	-.57	-.86	-.37	-.67	-.29	-.66	-.22	-.99	-.74	-.39
19	-.62	-.10	-.42	-.75	-.36	-.70	-.41	-.63	-.33	-.89	-.67	-.42
20	-.59	-.09	-.29	-.76	-.55	-.71	-.51	-.65	-.62	-.65	-.76	-.50
21	-.43	-.12	-.32	-1.11	-.72	-.44	-.56	-.66	-.63	-.66	-.66	-.27
22	-.42	-.08	-.45	-1.09	-1.01	-.61	-.75	-.85	-.58	-.71	-.61	-.23
23	-.32	-.21	-.70	-1.05	-.90	-.57	-.67	-.83	-.62	-.59	-.58	-.11
24	-.33	-.50	-.56	-.92	-.79	-.57	-.94	-.86	-.48	-.64	-.25	-.17
25	-.25	-.47	-.44	-.70	-.75	-.77	-.73	-.98	-.40	-.60	-.40	-.05
26	-.48	-.60	-.66	-1.12	-.68	-.70	-1.01	-1.02	-.41	-.39	-.30	.16
27	-.54	-.62	-.79	-1.12	-.69	-.88	-.93	-.70	-.48	-.16	.03	.03
28	-.46	-.49	-.76	-1.13	-.64	-1.01	-.76	-.54	-.36	-.38	-.27	.07
29	-.52	-.23	-.79	-1.11	---	-.86	-.65	-.43	-.40	-.42	-.06	.18
30	-.46	-.29	-.29	-1.09	---	-.80	-.47	-.46	-.43	-.52	-.28	.19
31	-.32	---	-.52	-1.11	---	-.69	---	-.49	---	-.61	-.39	---
MEAN	-.35	-.26	-.57	-.88	-.69	-.71	-.71	-.66	-.48	-.56	-.54	-.39
MAX	.33	.57	-.29	-.49	-.32	-.38	-.23	-.21	-.16	-.16	.03	.19
MIN	-.97	-1.16	-.97	-1.16	-1.09	-1.14	-1.07	-1.16	-.83	-.99	-.90	-.82
CAL YR 1977	MEAN	-.61	MAX	.57	MIN	-1.48						
WTR YR 1978	MEAN	-.57	MAX	.57	MIN	-1.16						

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290600 SNAPPER CREEK CANAL NEAR CORAL GABLES, FL

LOCATION.--Lat 25°45'40", long 80°23'05", in NE¼ sec.1, T.54 S., R.39 E., Dade County, Hydrologic Unit 03090202, on north side of canal, 100 ft (30 m) south of Tamiami Canal, 6 mi (10 km) west of Coral Gables, 11.4 mi (18.3 km) upstream from salinity-control structure 22, and 12.8 mi (20.6 km) upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1959 to September 1967 (daily discharge and gage heights). October 1967 to current year (gage heights). Records of gage heights prior to October 1960 are available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Dade County bench mark).

REMARKS.--Stage is affected by operation of salinity-control structure 22, 11.4 mi (18.3 km) downstream, and by operation of salinity-control structure S-25 in Tamiami Canal.

AVERAGE DISCHARGE.--7 years (1960-1967), 44.8 ft³/s (1.269 m³/s), 32,430 acre-ft/yr (40.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 474 ft³/s (13.4 m³/s) Apr. 26, 1960; maximum gage height, 6.74 ft (2.054 m) Sept. 10, 1960; maximum reverse flow, 780 ft³/s (22.1 m³/s) Sept. 10, 1969, caused by hurricane tide; minimum gage height, 1.30 ft (0.396 m) June 1, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.06 ft (1.237 m) Nov. 24; minimum, 2.86 ft (0.872 m) Apr. 23.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.35	3.39	3.21	3.23	3.15	3.24	3.18	3.09	3.03	3.50	3.27	3.12
2	3.60	3.37	3.13	3.22	3.17	3.28	3.18	3.09	3.02	3.50	3.37	3.14
3	3.70	3.35	3.13	3.20	3.17	3.32	3.16	3.10	3.08	3.55	3.38	3.19
4	3.72	3.38	3.14	3.24	3.15	3.38	3.14	3.09	3.11	3.64	3.28	3.20
5	3.65	3.48	3.14	3.24	3.18	3.39	3.12	3.09	3.23	3.65	3.28	3.30
6	3.69	3.50	3.18	3.21	3.19	3.35	3.10	3.09	3.31	3.73	3.76	3.41
7	3.64	3.47	3.22	3.21	3.17	3.23	3.09	3.08	3.28	3.78	3.73	3.41
8	3.58	3.45	3.28	3.20	3.17	3.16	3.07	3.07	3.25	3.66	3.64	3.38
9	3.53	3.42	3.34	3.23	3.23	3.19	3.05	3.03	3.21	3.56	3.54	3.35
10	3.48	3.41	3.40	3.21	3.21	3.27	3.03	3.04	3.17	3.52	3.44	3.32
11	3.46	3.39	3.41	3.20	3.18	3.34	3.00	3.04	3.16	3.45	3.35	3.29
12	3.46	3.36	3.41	3.20	3.14	3.35	2.98	3.05	3.19	3.35	3.33	3.30
13	3.47	3.34	3.41	3.19	3.11	3.35	2.96	3.07	3.26	3.28	3.28	3.38
14	3.55	3.33	3.41	3.18	3.09	3.33	2.94	3.08	3.18	3.24	3.23	3.45
15	3.63	3.32	3.38	3.17	3.10	3.31	2.97	3.06	3.10	3.21	3.19	3.61
16	3.64	3.31	3.37	3.16	3.10	3.28	3.00	3.03	3.04	3.18	3.15	3.71
17	3.60	3.31	3.43	3.15	3.11	3.28	2.99	3.00	3.02	3.14	3.14	3.63
18	3.54	3.29	3.51	3.14	3.26	3.26	2.97	3.19	3.24	3.14	3.12	3.55
19	3.50	3.26	3.52	3.13	3.61	3.27	2.96	3.38	3.76	3.22	3.12	3.48
20	3.47	3.24	3.50	3.12	3.49	3.24	2.95	3.48	3.62	3.26	3.10	3.41
21	3.41	3.26	3.48	3.18	3.43	3.25	2.92	3.46	3.57	3.28	3.10	3.36
22	3.43	3.32	3.45	3.22	3.37	3.24	2.90	3.41	3.56	3.31	3.15	3.30
23	3.49	3.33	3.42	3.27	3.32	3.23	2.88	3.33	3.59	3.38	3.29	3.26
24	3.48	3.80	3.40	3.26	3.32	3.22	3.36	3.27	3.63	3.42	3.46	3.22
25	3.47	3.87	3.38	3.25	3.30	3.20	3.58	3.29	3.58	3.40	3.35	3.27
26	3.49	3.68	3.37	3.24	3.26	3.19	3.45	3.39	3.58	3.37	3.26	3.34
27	3.48	3.53	3.33	3.22	3.25	3.17	3.31	3.22	3.63	3.34	3.19	3.27
28	3.46	3.40	3.30	3.20	3.24	3.17	3.23	3.22	3.62	3.31	3.15	3.26
29	3.43	3.32	3.22	3.20	---	3.18	3.14	3.24	3.53	3.29	3.14	3.37
30	3.42	3.27	3.25	3.19	---	3.16	3.11	3.15	3.53	3.28	3.13	3.45
31	3.40	---	3.25	3.16	---	3.17	---	3.07	---	3.26	3.14	---
MEAN	3.52	3.41	3.33	3.20	3.23	3.26	3.09	3.17	3.34	3.39	3.29	3.36
MAX	3.72	3.87	3.52	3.27	3.61	3.39	3.58	3.48	3.76	3.78	3.76	3.71
MIN	3.35	3.24	3.13	3.12	3.09	3.16	2.88	3.00	3.02	3.14	3.10	3.12

CAL YR 1977 MEAN 3.28 MAX 4.47 MIN 1.77
WTR YR 1978 MEAN 3.30 MAX 3.87 MIN 2.88

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290610 SNAPPER CREEK CANAL AT MILLER DRIVE, NEAR SOUTH MIAMI, FL

LOCATION.--Lat 25°42'56", long 80°22'59", in SW¼ sec.19, T.54 S., R.40 E., Dade County, Hydrologic Unit 03090202, 10 ft (3 m) streamward from east bank, 3 mi (5 km) south of Tamiami Canal, 5 mi (8 km) west of South Miami, and 9.8 mi (15.8 km) upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1958 to December 1967 (gage heights), January 1967 to current year. Records of gage heights prior to October 1962 are available in files of the Geological Survey.

GAGE.--Water-stage recorder and deflection-meter recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (Dade County bench mark).

REMARKS.--Records poor. Flow is regulated by operation of control structure 22, 8.4 mi (13.5 km) downstream, and affected by operation of salinity barrier S-25 in Tamiami Canal. Discharge computed from continuous velocity record obtained from recording deflection meter.

AVERAGE DISCHARGE.--10 years, 164 ft³/s (4.64 m³/s), 118,700 acre-ft/yr (146 m³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 795 ft³/s (22.5 m³/s) Oct. 17, 1968; maximum gage height, 6.93 ft (2.112 m) Sept. 10, 1960, from hurricane tide; no flow for some days during 1977 water year; minimum gage height, 1.23 ft (0.375 m) May 13, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge 391 ft³/s (11.1 m³/s) June 19; maximum gage height, 3.83 ft (1.167 m) Nov. 24; minimum daily discharge, 40 ft³/s (1.13 m³/s) Mar. 3; 2.92 ft (0.890 m) Apr. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	309	64	167	81	66	180	82	96	125	157	87	283
2	288	67	138	80	65	109	84	71	139	162	264	228
3	227	63	103	78	70	40	89	88	116	177	284	174
4	178	66	103	90	73	80	90	71	115	178	287	201
5	235	60	103	89	68	88	79	76	141	196	386	217
6	184	60	106	77	67	102	84	89	133	261	381	209
7	277	63	110	68	63	125	84	87	124	314	348	234
8	260	64	69	62	61	127	85	86	116	258	336	228
9	276	65	62	69	69	154	87	91	107	241	323	213
10	268	64	63	72	71	147	95	94	105	232	323	219
11	263	70	64	69	60	69	90	85	105	208	308	205
12	262	77	58	77	58	78	85	103	107	218	316	196
13	193	79	57	77	49	78	84	106	129	199	312	140
14	114	74	54	77	54	72	84	107	176	214	292	133
15	116	75	56	77	57	68	84	105	189	212	284	177
16	133	74	58	77	58	61	84	102	169	201	281	282
17	149	59	64	73	55	86	76	98	184	200	268	226
18	145	58	68	73	53	85	71	104	220	187	260	211
19	134	57	69	69	144	75	73	125	391	146	262	206
20	126	57	61	78	129	75	89	124	312	136	281	211
21	115	57	63	71	137	75	92	109	281	152	279	205
22	118	57	65	71	133	75	91	106	252	150	265	206
23	131	57	60	72	115	78	77	105	269	118	281	245
24	108	217	64	67	120	80	174	100	297	112	280	229
25	82	270	68	62	134	79	206	98	268	118	293	195
26	73	286	67	66	132	76	142	201	192	113	284	247
27	68	275	65	66	131	75	138	188	199	101	289	251
28	66	273	58	65	121	79	128	155	242	84	282	191
29	66	234	58	66	---	100	110	161	273	100	269	110
30	66	177	73	64	---	90	108	161	179	104	284	107
31	64	---	75	65	---	79	---	159	---	111	292	---
TOTAL	5094	3219	2349	2248	2413	2785	2945	3451	5655	5360	8981	6179
MEAN	164	107	75.8	72.5	86.2	89.8	98.2	111	189	173	290	206
MAX	309	286	167	90	144	180	206	201	391	314	386	283
MIN	64	57	54	62	49	40	71	71	105	84	87	107
AC-FT	10100	6380	4660	4460	4790	5520	5840	6850	11220	10630	17810	12260

CAL YR 1977 TOTAL 45134.80 MEAN 124 MAX 472 MIN .00 AC-FT 89520
WTR YR 1978 TOTAL 50679.00 MEAN 139 MAX 391 MIN 40 AC-FT 100500

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290610 SNAPPER CREEK CANAL AT MILLER DRIVE, NEAR SOUTH MIAMI, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.53	3.43	3.10	3.29	3.24	2.98	3.22	3.16	3.24	3.50	3.33	3.04
2	3.45	3.40	3.07	3.28	3.23	3.03	3.21	3.16	3.07	3.48	3.37	3.05
3	3.44	3.38	3.08	3.28	3.22	3.18	3.20	3.16	3.12	3.54	3.27	3.12
4	3.63	3.40	3.08	3.29	3.21	3.46	3.19	3.15	3.15	3.63	3.19	3.12
5	3.51	3.49	3.09	3.29	3.24	3.53	3.16	3.14	3.24	3.62	3.17	3.22
6	3.60	3.53	3.11	3.28	3.25	3.47	3.16	3.14	3.36	3.62	3.58	3.35
7	3.45	3.52	3.18	3.26	3.24	3.27	3.13	3.12	3.34	3.71	3.65	3.36
8	3.37	3.50	3.32	3.24	3.24	3.19	3.10	3.12	3.34	3.59	3.58	3.33
9	3.33	3.48	3.36	3.27	3.28	3.18	3.09	3.09	3.33	3.49	3.48	3.30
10	3.27	3.47	3.44	3.27	3.30	3.30	3.06	3.06	3.27	3.45	3.37	3.27
11	3.26	3.44	3.45	3.27	3.27	3.43	3.06	3.08	3.26	3.38	3.30	3.24
12	3.29	3.42	3.45	3.26	3.24	3.48	3.02	3.10	3.24	3.31	3.27	3.27
13	3.32	3.40	3.45	3.28	3.21	3.47	3.01	3.10	3.36	3.22	3.22	3.41
14	3.51	3.36	3.45	3.31	3.18	3.46	3.00	3.11	3.20	3.17	3.17	3.49
15	3.57	3.35	3.44	3.31	3.18	3.44	3.02	3.11	3.11	3.16	3.12	3.63
16	3.59	3.36	3.42	3.30	3.16	3.40	3.07	3.09	3.04	3.13	3.07	3.67
17	3.53	3.34	3.44	3.30	3.17	3.39	3.06	3.04	3.00	3.10	3.08	3.60
18	3.47	3.34	3.55	3.28	3.31	3.40	3.02	3.12	3.06	3.12	3.07	3.53
19	3.44	3.32	3.57	3.27	3.67	3.39	3.00	3.50	3.51	3.26	3.07	3.45
20	3.38	3.30	3.56	3.39	3.53	3.38	3.00	3.49	3.62	3.33	3.06	3.38
21	3.35	3.29	3.53	3.43	3.46	3.37	2.98	3.50	3.57	3.35	3.05	3.32
22	3.34	3.33	3.51	3.42	3.42	3.34	2.96	3.49	3.56	3.38	3.08	3.27
23	3.40	3.34	3.47	3.41	3.34	3.33	2.94	3.45	3.51	3.45	3.27	3.21
24	3.41	3.63	3.44	3.39	3.27	3.32	3.37	3.39	3.57	3.51	3.49	3.16
25	3.42	3.73	3.42	3.38	3.19	3.31	3.62	3.31	3.53	3.51	3.30	3.25
26	3.46	3.56	3.40	3.37	3.13	3.28	3.51	3.54	3.57	3.50	3.19	3.25
27	3.48	3.40	3.39	3.34	3.09	3.26	3.37	3.56	3.62	3.45	3.12	3.18
28	3.49	3.29	3.38	3.32	3.05	3.24	3.25	3.41	3.59	3.43	3.06	3.19
29	3.47	3.21	3.35	3.30	---	3.23	3.17	3.36	3.47	3.40	3.07	3.39
30	3.44	3.17	3.31	3.28	---	3.23	3.15	3.32	3.53	3.36	3.07	3.48
31	3.41	---	3.30	3.26	---	3.22	---	3.30	---	3.35	3.06	---
MEAN	3.44	3.41	3.36	3.31	3.26	3.32	3.14	3.25	3.35	3.40	3.23	3.32
MAX	3.63	3.73	3.57	3.43	3.67	3.53	3.62	3.56	3.62	3.71	3.65	3.67
MIN	3.26	3.17	3.07	3.24	3.05	2.98	2.94	3.04	3.00	3.10	3.05	3.04

CAL YR 1977 MEAN 3.35 MAX 4.67 MIN 2.30
WTR YR 1978 MEAN 3.32 MAX 3.73 MIN 2.94

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290700 SNAPPER CREEK CANAL AT S-22, NEAR SOUTH MIAMI, FL

LOCATION.--Lat 25°40'11", long 80°17'03", in NW¼ sec.7, T.55 S., R.41 E., Dade County, Hydrologic Unit 03090202, 15 ft (5 m) from right bank, 300 ft (91 m) upstream from salinity-control structure 22, 1.4 mi (2.3 km) upstream from mouth, and 2.5 mi (4.0 km) south of South Miami.

DRAINAGE AREA.--Indeterminate.

RECORDS AVAILABLE.--February 1959 to current year.

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

REMARKS.--Records fair. Flow affected by tide and operation of salinity-control structure 22 is occasionally reversed. Some seepage losses above station into City of Miami southwest well field. Discharge computed from continuous velocity record obtained from recording deflection meter.

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

AVERAGE DISCHARGE.--19 years, 222 ft³/s (6.29 m³/s), 160,700 acre-ft/yr (198 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 2,080 ft³/s (58.9 m³/s) Sept. 11, 1960; maximum gage height, 6.02 ft (1.835 m) Sept. 8, 1965; no flow for many days each year; maximum reverse flow, 1,220 ft³/s (34.6 m³/s) Sept. 10, 1960, from hurricane storm tide; minimum gage height, -0.59 ft (-0.180 m) Mar. 26, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 676 ft³/s (19.1 m³/s) July 17; maximum gage height, 3.64 ft (1.109 m) July 6; no flow for many days during the year; minimum gage height, 1.24 ft (0.378 m) Sept. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	656	.00	524	.00	.00	370	.00	11	271	293	.00	427
2	657	.00	470	.00	.00	127	.00	14	186	290	226	421
3	415	.00	413	.00	.00	.00	.00	.00	.00	320	388	411
4	255	.00	381	.00	.00	.00	.00	.00	.00	291	282	385
5	280	.00	396	.00	.00	.00	.00	.00	.00	248	184	267
6	280	.00	396	.00	.00	214	.00	.00	12	421	198	194
7	501	.00	221	.00	.00	367	.00	.00	.00	588	236	190
8	497	.00	.00	.00	.00	386	.00	.00	.00	593	397	120
9	481	.00	.00	.00	60	425	.00	16	.00	585	443	85
10	461	.00	.00	.00	.00	180	.00	.00	.00	571	561	110
11	373	.00	.00	.00	.00	.00	.00	.00	.00	554	495	105
12	380	.00	.00	.00	.00	.00	.00	.00	.00	557	319	41
13	195	.00	.00	.00	.00	.00	.00	.00	148	575	305	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	371	579	283	.00
15	101	.00	.00	.00	.00	40	.00	.00	374	585	297	109
16	219	.00	.00	.00	.00	.00	.00	.00	263	620	294	311
17	217	.00	.00	.00	.00	.00	.00	.00	194	676	197	324
18	216	.00	.00	.00	.00	.00	.00	.00	213	285	213	322
19	215	.00	.00	.00	335	.00	.00	.00	263	.00	204	320
20	274	.00	.00	.00	405	.00	.00	.00	287	.00	205	279
21	273	.00	.00	.00	393	.00	.00	.00	281	.00	285	273
22	273	.00	.00	.00	413	.00	.00	.00	288	.00	250	228
23	275	.00	.00	.00	412	18	.00	16	379	.00	95	274
24	275	537	.00	.00	418	.00	128	.00	487	.00	267	310
25	134	646	.00	.00	443	.00	278	.00	487	.00	392	297
26	.00	637	.00	.00	451	.00	254	544	386	.00	348	451
27	.00	607	.00	.00	464	9.4	242	598	376	.00	306	392
28	.00	623	.00	.00	441	.00	235	508	561	.00	317	247
29	.00	565	.00	.00	---	.00	209	477	439	.00	362	.00
30	.00	560	.00	.00	---	.00	59	485	276	.00	403	.00
31	.00	---	.00	.00	---	.00	---	442	---	.00	415	---
TOTAL	7903.00	4175.00	2801.00	.00	4235.00	2136.40	1405.00	3111.00	6542.00	8631.00	9167.00	6893.00
MEAN	255	139	90.4	.000	151	68.9	46.8	100	218	278	296	230
MAX	657	646	524	.00	464	425	278	598	561	676	561	451
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	15680	8280	5560	.00	8400	4240	2790	6170	12980	17120	18180	13670

CAL YR 1977 TOTAL 59341.80 MEAN 163 MAX 1280 MIN .00 AC-FT 117700
WTR YR 1978 TOTAL 56999.40 MEAN 156 MAX 676 MIN .00 AC-FT 113100

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290700 SNAPPER CREEK CANAL AT S-22, NEAR SOUTH MIAMI, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.93	3.41	2.74	3.23	3.14	2.74	3.17	3.10	2.78	3.28	3.24	2.72
2	2.82	3.38	2.80	3.21	3.13	2.92	3.17	3.10	2.85	3.27	3.07	2.70
3	3.10	3.34	2.87	3.23	3.13	3.17	3.16	3.06	3.04	3.27	2.76	2.77
4	3.28	3.37	2.88	3.24	3.13	3.47	3.15	3.05	3.11	3.35	2.78	2.78
5	3.11	3.46	2.88	3.24	3.14	3.50	3.12	3.05	3.18	3.36	2.83	2.86
6	3.18	3.55	2.91	3.23	3.16	3.28	3.11	3.04	3.27	3.26	3.18	3.00
7	2.94	3.56	3.04	3.20	3.15	3.01	3.10	3.00	3.29	3.29	3.28	3.03
8	2.88	3.48	3.22	3.17	3.12	2.91	3.09	3.02	3.26	3.22	3.22	3.00
9	2.80	3.47	3.25	3.22	3.17	2.92	3.08	3.00	3.23	3.16	3.08	3.00
10	2.75	3.45	3.33	3.22	3.21	3.17	3.04	3.00	3.20	3.12	2.97	2.98
11	2.88	3.45	3.37	3.20	3.17	3.30	3.00	2.99	3.18	3.04	2.90	2.95
12	2.92	3.42	3.37	3.19	3.11	3.43	2.99	3.03	3.21	2.95	2.85	3.10
13	3.10	3.35	3.36	3.23	3.09	3.40	2.96	3.09	3.21	2.90	2.80	3.33
14	3.41	3.35	3.36	3.22	3.08	3.40	2.95	3.11	2.91	2.84	2.77	3.42
15	3.44	3.34	3.37	3.22	3.09	3.36	2.96	3.07	2.82	2.83	2.73	3.48
16	3.45	3.33	3.36	3.22	3.07	3.34	3.00	3.01	2.76	2.78	2.71	3.38
17	3.38	3.31	3.39	3.19	3.06	3.33	3.00	2.97	2.75	2.73	2.80	3.32
18	3.33	3.29	3.50	3.19	3.20	3.31	2.97	3.12	2.81	2.92	2.79	3.25
19	3.28	3.28	3.50	3.18	3.43	3.30	2.95	3.36	3.21	3.20	2.80	3.13
20	3.25	3.25	3.49	3.29	3.26	3.30	2.95	3.45	3.31	3.24	2.78	3.06
21	3.19	3.24	3.47	3.37	3.19	3.29	2.93	3.47	3.29	3.25	2.77	3.00
22	3.21	3.28	3.47	3.35	3.14	3.29	2.89	3.42	3.24	3.27	2.80	2.95
23	3.29	3.30	3.39	3.31	3.07	3.26	2.83	3.35	3.16	3.33	3.06	2.92
24	3.30	3.18	3.40	3.30	2.99	3.24	3.20	3.27	3.09	3.45	3.09	2.88
25	3.34	3.22	3.39	3.29	2.87	3.23	3.44	3.32	3.06	3.44	2.84	2.92
26	3.42	3.04	3.38	3.28	2.81	3.21	3.35	2.86	3.24	3.43	2.74	2.76
27	3.46	2.90	3.37	3.25	2.77	3.22	3.21	2.74	3.26	3.35	2.68	2.75
28	3.42	2.78	3.31	3.23	2.72	3.20	3.11	2.83	2.99	3.34	2.66	2.88
29	3.41	2.84	3.27	3.22	---	3.20	3.01	2.87	2.93	3.34	2.78	3.35
30	3.42	2.81	3.22	3.18	---	3.18	3.02	2.77	3.29	3.33	2.77	3.43
31	3.42	---	3.23	3.16	---	3.17	---	2.74	---	3.26	2.74	---
MEAN	3.20	3.28	3.25	3.23	3.09	3.23	3.06	3.07	3.10	3.19	2.88	3.04
MAX	3.46	3.56	3.50	3.37	3.43	3.50	3.44	3.47	3.31	3.45	3.28	3.48
MIN	2.75	2.78	2.74	3.16	2.72	2.74	2.83	2.74	2.75	2.73	2.66	2.70
CAL YR 1977	MEAN	3.14	MAX	3.56	MIN	2.15						
WTR YR 1978	MEAN	3.14	MAX	3.56	MIN	2.66						

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290707 BLACK CREEK CANAL NEAR RICHMOND HEIGHTS, FL

LOCATION.--Lat 25°39'39", long 80°28'46", in SW¼ sec.7, T.55 S., R.39 E., Dade County, Hydrologic Unit 03090202, near right bank 30 ft (9 m) upstream from Seaboard Coastline Railroad, 600 ft (183 m) east of Krome Avenue, and 6.5 m (10.5 km) northwest of Richmond Heights.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1969 to current year (gage heights).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Dade County bench mark).

REMARKS.--Water levels at this station are affected by operation of salinity-control structures S-148 and S-21 about 9 mi (14 km) and 14 mi (22 km) respectively, downstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 7.08 ft (2.158 m) Aug. 24, 1973; minimum, 0.74 ft (0.226 m) May 15, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 5.90 ft (1.798 m) estimated Oct. 2; minimum, 3.96 ft (1.207 m) Apr. 23.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.85	5.13	5.20	4.75	4.46	4.90	4.54	4.55	5.04	5.60	4.76	5.27
2	5.90	5.08	5.15	4.74	4.44	4.85	4.51	4.50	4.99	5.71	4.93	5.37
3	5.87	5.10	5.11	4.75	4.42	4.80	4.48	4.44	4.93	5.64	5.20	5.57
4	5.86	5.31	5.08	4.76	4.40	4.85	4.45	4.39	4.96	5.58	5.19	5.58
5	5.83	5.29	5.05	4.75	4.41	4.95	4.41	4.36	5.22	5.59	5.17	5.73
6	5.80	5.27	5.05	4.73	4.43	5.00	4.37	4.37	5.21	5.67	5.39	5.82
7	5.79	5.22	5.13	4.72	4.41	5.00	4.34	4.35	5.18	5.67	5.55	5.76
8	5.78	5.17	5.11	4.71	4.40	4.98	4.30	4.32	5.12	5.56	5.61	5.72
9	5.74	5.13	5.08	4.70	4.44	4.95	4.27	4.29	5.05	5.54	5.59	5.70
10	5.70	5.08	5.08	4.68	4.47	4.90	4.23	4.24	4.99	5.48	5.60	5.72
11	5.65	5.04	5.07	4.65	4.45	4.88	4.20	4.21	4.93	5.38	5.62	5.69
12	5.61	4.99	5.04	4.63	4.44	4.86	4.15	4.18	4.91	5.30	5.74	5.68
13	5.57	4.95	5.02	4.63	4.42	4.85	4.12	4.21	5.03	5.21	5.72	5.70
14	5.52	4.91	4.99	4.65	4.39	4.80	4.09	4.20	5.05	5.16	5.61	5.74
15	5.47	4.86	4.96	4.63	4.36	4.78	4.13	4.16	5.02	5.14	5.51	5.83
16	5.43	4.82	4.93	4.61	4.34	4.76	4.23	4.12	4.99	5.18	5.42	5.86
17	5.38	4.78	4.99	4.60	4.33	4.75	4.22	4.08	4.93	5.20	5.35	5.82
18	5.33	4.75	5.13	4.59	4.47	4.74	4.19	4.27	4.94	5.07	5.29	5.77
19	5.28	4.72	5.11	4.59	5.03	4.72	4.15	4.76	5.24	4.96	5.25	5.72
20	5.24	4.70	5.10	4.65	5.12	4.70	4.11	4.91	5.40	4.88	5.23	5.66
21	5.20	4.68	5.07	4.68	5.15	4.70	4.06	4.87	5.54	4.83	5.28	5.61
22	5.30	4.67	5.03	4.66	5.18	4.68	4.01	4.80	5.71	4.92	5.26	5.58
23	5.52	4.69	4.99	4.66	5.20	4.65	3.98	4.73	5.79	4.97	5.28	5.58
24	5.49	4.91	4.97	4.65	5.15	4.65	4.35	4.66	5.82	5.02	5.31	5.56
25	5.44	5.30	4.95	4.63	5.10	4.62	4.78	4.65	5.76	5.00	5.33	5.65
26	5.40	5.32	4.92	4.61	5.05	4.62	4.82	5.03	5.50	4.95	5.31	5.68
27	5.35	5.29	4.89	4.59	5.00	4.60	4.78	5.05	5.53	4.90	5.27	5.69
28	5.30	5.26	4.84	4.56	4.95	4.60	4.72	5.10	5.56	4.85	5.24	5.71
29	5.25	5.24	4.81	4.53	---	4.59	4.66	5.17	5.56	4.82	5.24	5.71
30	5.21	5.23	4.78	4.49	---	4.57	4.61	5.14	5.50	4.79	5.29	5.71
31	5.17	---	4.76	4.47	---	4.55	---	5.08	---	4.75	5.29	---
MEAN	5.52	5.03	5.01	4.65	4.66	4.77	4.34	4.55	5.25	5.20	5.35	5.67
MAX	5.90	5.32	5.20	4.76	5.20	5.00	4.82	5.17	5.82	5.71	5.74	5.86
MIN	5.17	4.67	4.76	4.47	4.33	4.55	3.98	4.08	4.91	4.75	4.76	5.27

CAL YR 1977 MEAN 4.65 MAX 6.36 MIN 2.26
WTR YR 1978 MEAN 5.00 MAX 5.90 MIN 3.98

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290725 MOWRY CANAL NEAR HOMESTEAD, FL

LOCATION.--Lat 25°28'13", long 80°20'47", in E½ sec.17, T.57 S., R.40 E., Dade County, Hydrologic Unit 03090202, in control house of salinity-control structure S20F, 0.5 mi (0.8 km) upstream from mouth, and 8 mi (13 km) 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.--Dual water-stage recorder and gate opening recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Dade County bench mark). Prior to June 23, 1966, at site 160 ft (48 m) upstream and at datum 0.15 ft (0.046 m) lower.

REMARKS.--Records fair. Flow is affected by tide and is occasionally reversed. Flow is regulated by operation of salinity-control structure S20F and by some upstream pumpage for irrigation. Discharge computed from relation between head, discharges, and gate openings at structure S20F.

COOPERATION.--Gage height records furnished by South Florida Water Management District.

AVERAGE DISCHARGE.--8 years (1971-78) 200 ft³/s (5.66 m³/s), 144,800 acre-ft/yr (179 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,720 ft³/s (48.7 m³/s) June 11, 1976; maximum gage height, 9.25 ft (2.819 m) Sept. 8, 1965; no flow for many days each year; minimum gage height, -1.03 ft (-0.314 m) May 10, 12, June 26, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 1,430 ft³/s (40.5 m³/s) Oct. 12; maximum gage height, 2.51 ft (0.765 m) June 18; no flow for many days; minimum gage height, 0.27 ft (0.082 m) Feb. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	374	341	224	219	271	325	182	309	361	483	508	551
2	456	221	268	369	187	330	75	248	409	429	548	279
3	444	228	208	343	39	624	88	240	548	542	340	373
4	335	238	256	328	122	401	.00	272	333	576	378	577
5	247	336	248	219	189	646	.00	318	534	520	440	648
6	114	340	265	389	144	415	.00	422	200	512	502	797
7	268	384	239	227	99	283	.00	361	148	583	564	683
8	202	171	200	292	229	346	.00	148	184	567	626	568
9	262	182	170	453	176	530	.00	.00	49	657	645	497
10	294	229	153	372	235	544	.00	.00	.00	591	643	472
11	165	175	156	357	214	328	.00	.00	.00	547	605	528
12	1430	134	168	248	278	398	.00	.00	423	512	643	631
13	134	121	207	278	209	347	.00	.00	741	577	537	788
14	288	122	211	181	338	438	98	.00	578	666	528	726
15	345	170	151	318	202	386	333	.00	479	657	364	865
16	322	225	260	237	260	449	149	.00	373	478	386	718
17	287	170	219	446	605	257	.00	.00	278	400	289	681
18	143	188	347	396	683	371	.00	.00	297	260	321	582
19	228	162	241	228	1090	264	.00	220	341	355	533	519
20	358	121	190	629	492	195	18	96	579	280	221	734
21	198	30	211	496	532	159	.00	166	488	230	297	609
22	403	186	135	417	499	180	.00	37	568	346	464	739
23	565	207	274	383	498	123	.00	.00	512	387	592	676
24	636	354	239	446	437	143	533	.00	415	354	541	624
25	373	616	281	322	338	227	506	.00	405	313	486	883
26	356	636	278	451	462	130	360	284	480	284	436	922
27	350	519	206	314	313	100	280	357	509	274	285	813
28	321	275	203	375	344	256	236	431	627	382	351	578
29	342	77	177	176	---	313	328	320	602	328	416	516
30	259	51	161	224	---	125	315	485	743	305	568	572
31	286	---	167	185	---	165	---	381	---	402	532	---
TOTAL	10785	7209	6713	10318	9485	9798	3501.00	5095.00	12204.00	13797	14589	19149
MEAN	348	240	217	333	339	316	117	164	407	445	471	638
MAX	1430	636	347	629	1090	646	533	485	743	666	645	922
MIN	114	30	135	176	39	100	.00	.00	.00	230	221	279
AC-FT	21390	14300	13320	20470	18810	19430	6940	10110	24210	27370	28940	37980

CAL YR 1977 TOTAL 82182.00 MEAN 225 MAX 1450 MIN .00 AC-FT 163000
WTR YR 1978 TOTAL 122643.00 MEAN 336 MAX 1430 MIN .00 AC-FT 243300

02290725 MOWRY CANAL NEAR HOMESTEAD, FL

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.04	1.65	1.28	1.58	1.65	1.64	1.66	1.64	2.06	2.04	2.12	2.11
2	2.02	1.66	1.51	1.62	1.64	1.73	1.66	1.67	2.07	2.03	2.07	2.09
3	1.99	1.71	1.52	1.41	1.65	1.65	1.68	1.69	2.07	2.06	2.10	2.11
4	2.07	1.74	1.50	1.51	1.67	1.43	1.75	1.68	2.09	2.04	2.10	2.07
5	2.07	1.68	1.51	1.61	1.71	1.36	1.73	1.62	2.03	2.05	2.11	2.07
6	2.13	1.70	1.52	1.61	1.46	1.55	1.68	1.68	2.08	2.05	2.04	2.05
7	2.14	1.64	1.55	1.61	1.59	1.65	1.66	1.68	2.14	2.02	2.05	2.08
8	2.03	1.69	1.59	1.65	1.59	1.68	1.67	1.72	2.10	2.06	2.08	2.11
9	2.00	1.67	1.59	1.60	1.53	1.61	1.67	1.84	2.12	2.08	2.06	2.04
10	2.01	1.65	1.56	1.66	1.58	1.60	1.59	1.88	2.17	2.07	2.09	2.10
11	1.99	1.62	1.61	1.67	1.68	1.70	1.57	1.97	2.14	2.08	2.10	2.04
12	2.02	1.65	1.60	1.66	1.61	1.56	1.54	2.01	2.09	2.07	2.10	2.02
13	1.99	1.64	1.59	1.64	1.59	1.60	1.53	2.11	2.07	2.07	2.11	2.07
14	1.65	1.69	1.60	1.70	1.60	1.62	1.57	2.12	2.03	2.05	2.14	2.09
15	1.48	1.68	1.54	1.67	1.62	1.62	1.66	2.10	2.08	2.07	2.13	2.15
16	1.39	1.65	1.50	1.71	1.60	1.65	1.66	2.05	2.11	2.08	2.15	2.16
17	1.40	1.62	1.55	1.71	1.57	1.62	1.72	2.01	2.08	2.07	2.17	2.15
18	1.55	1.60	1.47	1.61	1.40	1.64	1.73	2.10	2.14	2.09	2.17	2.14
19	1.68	1.63	1.48	1.51	1.27	1.61	1.68	2.14	2.13	2.09	2.14	2.13
20	1.59	1.68	1.56	1.50	1.46	1.69	1.69	2.17	2.02	2.09	2.18	2.11
21	1.67	1.68	1.65	1.56	1.44	1.65	1.63	2.13	2.06	2.10	2.15	2.11
22	1.82	1.66	1.72	1.56	1.29	1.73	1.61	2.13	2.09	2.08	2.09	2.13
23	1.66	1.61	1.71	1.58	1.33	1.71	1.58	2.17	2.07	2.07	2.04	2.17
24	1.64	1.62	1.70	1.58	1.48	1.66	1.56	2.15	2.10	2.10	2.05	2.11
25	1.50	1.45	1.72	1.66	1.61	1.71	1.48	2.14	2.10	2.14	2.02	2.13
26	1.53	1.37	1.69	1.58	1.61	1.70	1.52	2.14	2.05	2.12	2.02	2.15
27	1.63	1.31	1.72	1.61	1.64	1.70	1.66	2.07	2.05	2.13	2.06	2.07
28	1.64	1.55	1.68	1.60	1.68	1.61	1.66	2.07	2.06	2.15	2.07	2.11
29	1.63	1.58	1.69	1.66	---	1.63	1.65	2.06	2.06	2.14	2.07	2.15
30	1.60	.91	1.73	1.63	---	1.65	1.65	2.05	2.04	2.15	2.10	2.15
31	1.61	---	1.72	1.63	---	1.64	---	2.11	---	2.15	2.08	---
MEAN	1.78	1.60	1.59	1.61	1.56	1.63	1.64	1.97	2.08	2.08	2.10	2.11
MAX	2.14	1.74	1.73	1.71	1.71	1.73	1.75	2.17	2.17	2.15	2.18	2.17
MIN	1.39	.91	1.28	1.41	1.27	1.36	1.48	1.62</				

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290732 BISCAYNE BAY NEAR HOMESTEAD, FL

LOCATION.--Lat 25°27'45", long 80°20'16", in NE¼ sec.21, T.57 S., R.40 E., Dade County, Hydrologic Unit 03090202, on south bank of North Canal, 800 ft (244 m) upstream from mouth, 3,500 ft (1.067 m) downstream from salinity-control structure, and 9 mi (14 km) east of Homestead.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1946 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 (Dade County bench mark). Prior to Feb. 24, 1950, at datum 0.66 ft (0.201 m) higher.

REMARKS.--Gage records water levels and tidal fluctuations in lower Biscayne Bay. The stage record published is the maximum and minimum tide event for each calendar day.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 9.82 ft (2.993 m) Sept. 8, 1965, from hurricane tide floodmark; minimum, -1.56 ft (-0.475 m) April 11, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 2.42 ft (0.738 m) Nov. 15; minimum, -1.02 ft (-0.311 m) May 5.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
TIDAL HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.98	1.90	1.27	1.35	.72	1.25	1.45	1.34	1.47	1.40	1.30	1.49
2	1.87	2.16	1.11	1.43	.70	1.48	1.20	1.30	1.43	1.32	1.17	1.47
3	1.74	2.14	1.13	1.49	1.16	1.30	1.30	1.50	1.20	1.15	1.40	1.45
4	2.30	2.04	1.29	1.53	1.46	1.38	1.21	1.13	1.18	1.13	1.54	1.36
5	2.12	1.90	1.26	1.55	1.66	1.46	1.38	1.16	1.27	1.06	1.44	1.34
6	1.97	1.85	1.30	1.55	1.70	1.57	1.37	1.24	1.37	1.12	1.31	1.35
7	2.02	1.87	1.50	1.69	1.94	1.79	1.23	1.30	1.22	1.15	1.30	1.10
8	1.96	1.98	1.82	1.78	2.22	1.61	1.37	1.39	1.26	1.07	1.32	1.02
9	1.75	1.97	1.84	1.21	1.89	1.54	1.41	1.52	1.14	1.16	1.10	1.15
10	1.82	1.92	1.77	1.32	1.68	1.33	1.38	1.22	1.23	1.18	.99	1.38
11	1.73	1.98	2.10	1.37	1.80	1.55	1.19	1.37	1.13	1.29	1.03	1.28
12	1.67	2.05	2.34	1.49	1.75	1.40	.96	1.29	1.39	1.25	.93	1.29
13	1.66	2.27	2.20	1.54	1.71	1.43	.95	.96	1.47	1.42	1.14	1.55
14	1.73	2.30	1.86	1.25	1.16	1.42	.96	.77	1.49	1.33	1.42	1.66
15	1.95	2.42	1.65	.85	1.22	1.22	1.06	1.00	1.74	1.37	1.55	1.84
16	1.86	2.09	1.52	.90	1.27	1.06	1.09	1.13	1.87	1.23	1.59	2.14
17	1.69	1.91	1.41	.82	1.11	.80	1.29	1.36	2.08	1.17	1.65	2.19
18	1.53	1.70	1.37	.84	1.24	1.01	1.25	1.33	2.27	1.36	1.73	2.12
19	1.43	1.83	1.41	.87	1.35	1.11	1.14	1.42	2.18	1.72	1.77	2.00
20	1.43	1.99	1.51	.54	1.42	1.44	1.29	1.87	1.94	1.91	1.73	1.82
21	1.63	2.16	1.44	.42	1.46	1.44	1.71	1.90	1.92	1.82	1.76	1.84
22	2.22	2.05	1.55	.72	.97	1.49	1.76	1.83	2.01	1.81	1.81	1.61
23	1.98	1.76	1.47	1.02	1.10	1.65	1.85	1.84	1.92	1.69	1.52	1.57
24	1.86	1.85	1.57	1.31	1.35	1.67	1.80	1.83	1.82	1.59	1.55	1.39
25	1.92	1.68	1.53	1.37	1.43	1.59	1.71	1.52	1.69	1.47	1.32	1.56
26	1.84	1.46	1.60	.79	1.45	1.58	1.57	1.44	1.68	1.51	1.32	1.78
27	1.62	1.65	1.36	.87	1.38	1.48	1.25	1.61	1.52	1.53	1.43	1.74
28	1.59	1.45	1.45	.75	1.40	1.30	1.40	1.48	1.53	1.20	1.43	1.94
29	1.55	1.78	1.38	.69	---	1.34	1.28	1.56	1.48	1.33	1.55	2.06
30	1.44	1.46	1.59	.61	---	1.42	1.37	1.58	1.45	1.13	1.45	2.17
31	1.70	---	1.30	.60	---	1.25	---	1.44	---	1.19	1.40	---
MEAN	1.79	1.92	1.55	1.11	1.42	1.40	1.34	1.41	1.58	1.36	1.42	1.62
MAX	2.30	2.42	2.34	1.78	2.22	1.79	1.85	1.90	2.27	1.91	1.81	2.19
MIN	1.43	1.45	1.11	.42	.70	.80	.95	.77	1.13	1.06	.93	1.02

CAL YR 1977 MEAN .23 MAX 2.42 MIN -1.01
WTR YR 1978 MEAN 1.49 MAX 2.42 MIN .42

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290732 BISCAYNE BAY NEAR HOMESTEAD, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
TIDAL LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.18	.24	-.22	-.33	-.87	-.55	-.31	-.23	-.29	-.23	-.34	-.15
2	.19	.50	-.30	-.24	-.86	-.18	-.34	-.36	-.25	-.24	-.40	-.21
3	.01	.71	-.29	-.15	-.84	-.44	-.30	-.39	-.43	-.42	-.20	-.32
4	.71	.62	-.11	-.11	-.65	-.46	-.51	-.55	-.54	-.45	-.04	-.37
5	.87	.40	-.16	-.11	-.29	-.57	-.58	-1.02	-.43	-.65	-.29	-.30
6	.67	.31	-.28	-.25	-.37	-.41	-.47	-.63	-.43	-.45	-.27	-.40
7	.61	.19	-.46	-.47	-.27	-.22	-.68	-.54	-.34	-.51	-.23	-.49
8	.45	.12	-.21	-.36	-.16	-.34	-.59	-.31	-.42	-.33	-.34	-.54
9	.12	.11	-.38	-.76	-.46	-.67	-.42	-.47	-.31	-.36	-.35	-.53
10	.03	-.10	-.58	-.67	-.35	-.90	-.51	-.64	-.30	-.23	-.40	-.28
11	-.10	-.23	-.19	-.67	-.18	-.50	-.54	-.27	-.22	-.18	-.47	-.57
12	-.17	-.01	.22	-.43	-.12	-.47	-.58	-.43	-.23	-.10	-.62	-.39
13	-.38	.04	.08	-.46	-.30	-.30	-.54	-.58	.03	-.12	-.38	-.45
14	-.26	.15	-.18	-.75	-.51	-.30	-.35	-.47	-.01	-.16	-.35	-.26
15	-.17	.36	-.29	-.57	-.22	-.46	-.22	-.25	.16	-.25	-.29	-.19
16	-.21	.18	-.31	-.58	-.22	-.53	-.22	-.27	.31	-.40	-.36	-.05
17	-.17	.01	-.25	-.71	-.28	-.52	-.03	-.11	.37	-.61	-.31	.06
18	-.23	-.02	-.27	-.73	-.24	-.27	-.18	-.32	.33	-.50	-.33	.08
19	-.28	.03	-.18	-.53	-.43	-.24	-.46	-.35	.11	-.37	-.27	.00
20	-.17	.33	-.16	-.88	-.24	-.37	-.47	-.12	-.20	-.19	-.24	-.14
21	-.16	.36	-.11	-.82	-.33	-.29	-.29	-.08	-.21	.03	-.17	.03
22	.04	.37	-.16	-.84	-.63	-.43	-.14	-.15	-.09	-.03	-.25	-.09
23	.12	.12	-.26	-.77	-.74	-.42	-.09	-.23	-.22	-.08	-.30	.03
24	.06	-.15	-.19	-.58	-.65	-.27	-.36	-.29	-.22	-.22	-.24	-.07
25	.05	-.20	-.25	-.44	-.43	-.42	-.38	-.63	-.08	-.14	-.19	.21
26	-.16	-.32	-.28	-.71	-.48	-.45	-.69	-.47	-.12	-.11	-.19	.33
27	-.26	-.16	-.25	-.74	-.48	-.56	-.54	-.34	-.17	-.05	-.09	.16
28	-.23	-.23	-.25	-.77	-.49	-.60	-.38	-.19	-.14	-.19	-.07	.29
29	-.24	.09	-.34	-.63	---	-.65	-.30	-.13	-.16	-.21	.06	.38
30	-.27	-.15	-.13	-.61	---	-.31	-.30	-.11	-.26	-.33	-.15	.37
31	-.04	---	-.33	-.62	---	-.40	---	-.23	---	-.33	-.21	---
MEAN	.02	.12	-.23	-.56	-.43	-.44	-.39	-.36	-.16	-.27	-.27	-.13
MAX	.87	.71	.22	-.11	-.12	-.18	-.03	-.08	.37	.03	.06	.38
MIN	-.38	-.32	-.58	-.88	-.87	-.90	-.69	-1.02	-.54	-.65	-.62	-.57

CAL YR 1977 MEAN -.22 MAX .87 MIN -1.01
WTR YR 1978 MEAN -.26 MAX .87 MIN -1.02

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290750 CARD SOUND AT MODEL LAND CANAL, NEAR FLORIDA CITY, FL

LOCATION.--Lat 25°20'42", long 80°20'00", on line between secs.28 and 33, T.58 S., R.40 E., Dade County, Hydrologic Unit 03090202, near left bank, 200 ft (61 m) upstream from mouth of Model Land Canal, and 11.8 mi (19.0 km) southeast of Florida City.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1967 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Dade County bench mark).

REMARKS.--Gage records water levels and tidal fluctuations in Card Sound. The stage record published is the maximum and minimum tide event for each calendar day.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 3.49 ft (1.064 m) Dec. 21, 1969; minimum, -0.55 ft (-0.168 m) Apr. 6, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 2.25 ft (0.686 m) estimated, Dec. 13; minimum, -0.38 ft (-0.116 m) Feb. 1.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
TIDAL HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.83	1.78	1.30	1.28	.30	1.03	1.16	1.09	1.21	1.24	.90	1.05
2	1.77	1.97	1.20	1.30	.33	1.23	.99	1.01	1.23	1.24	.95	1.12
3	1.60	1.98	1.06	1.35	.70	1.05	1.02	1.09	1.07	1.10	1.00	1.08
4	1.72	1.92	1.15	1.40	.97	1.13	.86	.85	1.00	1.01	1.15	.98
5	1.97	1.80	1.26	1.44	1.19	1.20	.98	.71	1.08	.86	1.10	.95
6	1.93	1.74	1.22	1.48	1.21	1.30	1.04	.84	1.07	1.12	1.00	.95
7	1.79	1.70	1.35	1.60	1.61	1.38	.87	.88	1.03	1.06	1.00	.80
8	1.80	1.77	1.55	1.70	1.75	1.33	1.01	1.09	1.06	1.02	.95	.72
9	1.69	1.74	1.76	1.60	1.44	1.28	1.09	1.13	.98	1.00	.85	.75
10	1.66	1.65	1.72	1.25	1.42	1.11	1.02	.94	1.02	.85	.75	.96
11	1.55	1.84	1.90	1.28	1.55	1.23	.88	.92	.97	.95	.70	.95
12	1.56	1.96	2.15	1.35	1.48	1.16	.67	1.03	1.09	.94	.75	.95
13	1.59	1.99	2.25	1.40	1.39	1.09	.68	.79	1.30	1.00	.90	1.05
14	1.59	2.02	1.95	1.45	1.03	1.13	.75	.72	1.38	1.05	1.05	1.30
15	1.64	2.15	1.75	1.00	1.11	1.00	.95	.88	1.50	.96	1.15	1.40
16	1.65	1.86	1.60	.80	1.15	.84	.98	.99	1.62	.94	1.20	1.65
17	1.52	1.78	1.50	.80	1.07	.90	1.12	1.10	1.73	.89	1.25	1.80
18	1.44	1.58	1.40	.82	1.10	.99	1.08	1.18	1.99	.95	1.30	1.75
19	1.31	1.73	1.30	.78	1.27	.94	.93	1.13	1.75	1.20	1.35	1.70
20	1.28	1.82	1.40	.60	1.31	1.22	1.04	1.45	1.67	1.56	1.35	1.60
21	1.35	1.92	1.42	.50	1.36	1.24	1.30	1.52	1.55	1.55	1.40	1.45
22	1.97	1.88	1.45	.40	.95	1.22	1.36	1.49	1.66	1.48	1.30	1.30
23	1.78	1.63	1.48	.85	.96	1.33	1.44	1.53	1.60	1.46	1.15	1.25
24	1.75	1.89	1.48	1.00	1.04	1.32	1.37	1.50	1.49	1.30	1.18	1.18
25	1.75	1.54	1.52	1.30	1.13	1.22	1.38	1.22	1.40	1.20	1.05	1.20
26	1.60	1.37	1.50	.90	1.14	1.23	1.25	1.12	1.40	1.15	1.00	1.30
27	1.42	1.47	1.40	.75	1.11	1.18	1.00	1.16	1.29	1.18	1.05	1.45
28	1.42	1.31	1.30	.80	1.10	1.08	1.18	1.19	1.35	1.15	1.10	1.50
29	1.37	1.62	1.36	.70	---	1.10	1.00	1.27	1.29	.90	1.15	1.65
30	1.29	1.43	1.45	.60	---	1.17	1.08	1.29	1.27	.98	1.10	1.75
31	1.54	---	1.45	.65	---	1.05	---	1.24	---	.80	1.08	---
MEAN	1.62	1.76	1.50	1.07	1.15	1.15	1.05	1.11	1.34	1.10	1.07	1.25
MAX	1.97	2.15	2.25	1.70	1.75	1.38	1.44	1.53	1.99	1.56	1.40	1.80
MIN	1.28	1.31	1.06	.40	.30	.84	.67	.71	.97	.80	.70	.72

CAL YR 1977 MEAN .81 MAX 2.25 MIN -.12
WTR YR 1978 MEAN 1.26 MAX 2.25 MIN .30

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290750 CARD SOUND AT MODEL LAND CANAL, NEAR FLORIDA CITY, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
TIDAL LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.97	.94	.64	.60	-.38	.20	.49	.29	.40	.48	.30	.50
2	.91	1.06	.65	.65	-.28	.37	.26	.24	.38	.45	.35	.45
3	.80	1.21	.80	.72	-.34	.28	.26	.26	.27	.33	.45	.40
4	1.03	1.12	.70	.76	-.13	.24	.14	.03	.23	.26	.58	.30
5	1.37	1.00	.58	.74	.21	.26	.12	-.30	.28	.16	.60	.28
6	1.23	1.01	.50	.60	.32	.36	.19	.05	.30	.38	.50	.38
7	1.15	.92	.55	.50	.55	.44	.05	.14	.30	.30	.40	.30
8	1.05	.86	.60	.50	.59	.34	.19	.27	.26	.42	.35	.10
9	.86	.86	.40	.40	.49	.23	.21	.18	.28	.38	.30	.15
10	.82	.73	.60	.25	.52	.18	.15	.02	.26	.32	.20	.28
11	.74	.80	.90	.35	.59	.32	.01	.22	.34	.44	.14	.28
12	.69	1.03	1.05	.48	.58	.27	-.04	.18	.43	.46	.10	.20
13	.61	.99	.85	.43	.40	.32	.01	.02	.60	.48	.15	.25
14	.72	1.00	.70	.30	.19	.29	.14	.15	.64	.40	.16	.35
15	.71	1.11	.62	.20	.40	.15	.29	.29	.72	.30	.16	.40
16	.69	.93	.64	.30	.54	.05	.37	.35	.82	.20	.25	.50
17	.71	.82	.68	.35	.35	.39	.42	.33	.91	.05	.26	.58
18	.66	.79	.74	.22	.41	.38	.37	.36	1.04	.10	.25	.63
19	.52	.90	.76	.35	.30	.37	.19	.33	.79	.15	.32	.65
20	.56	.96	.72	.25	.52	.22	.21	.47	.63	.35	.35	.55
21	.55	1.03	.76	.10	.55	.42	.34	.58	.61	.45	.40	.55
22	.72	1.05	.75	.12	.29	.29	.44	.58	.70	.65	.44	.60
23	.96	.82	.70	.18	.20	.36	.47	.53	.60	.50	.48	.60
24	.88	.64	.65	.30	.10	.45	.41	.45	.54	.42	.36	.65
25	.86	.73	.63	.46	.29	.32	.39	.22	.58	.44	.36	.75
26	.67	.58	.65	.35	.27	.31	.23	.26	.54	.50	.40	.80
27	.64	.65	.70	.20	.27	.27	.16	.35	.51	.54	.45	.85
28	.58	.53	.62	.25	.23	.25	.28	.45	.54	.50	.52	.88
29	.53	.81	.65	.30	---	.16	.26	.52	.49	.45	.58	.95
30	.51	.57	.76	.15	---	.37	.34	.51	.46	.35	.68	.96
31	.69	---	.65	.05	---	.33	---	.44	---	.28	.52	---
MEAN	.79	.88	.68	.37	.29	.30	.25	.28	.52	.37	.37	.50
MAX	1.37	1.21	1.05	.76	.59	.45	.49	.58	1.04	.65	.68	.96
MIN	.51	.53	.40	.05	-.38	.05	-.04	-.30	.23	.05	.10	.10

CAL YR 1977	MEAN .60	MAX 1.37	MIN -.12
WTR YR 1978	MEAN .47	MAX 1.37	MIN -.38

EVERGLADES AND SOUTHEASTERN COASTAL AREA

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 (13.7 km) south of Florida City.

DRAINAGE AREA.--Indeterminate.

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

GAGE.--Dual water-stage recorder and gate opening indicator. Datum of gage is National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark).

REMARKS.--Records poor. Flow regulated by S-18-C. Discharge computed from relation between discharge, head, and gate openings at S-18 C.

COOPERATION.--Gate-opening recorder record and record of slot operations furnished South Florida Water Management District.

AVERAGE DISCHARGE.--10 years, 73.9 ft³/s (2.09 m³/s), 53,500 acre-ft/yr (66.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,680 ft³/s (47.6 m³/s) June 21, 1969; maximum gage height, 2.92 ft (0.890 m) Sept. 4, 1978; no flow for many days each year; minimum gage height, -1.53 ft (-0.466 m) May 14, 1971 (estimated).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 914 ft³/s (25.9 m³/s) Sept. 4; maximum gage height, 2.92 ft (0.890 m) Sept. 4; no flow for many days; minimum gage height, 1.43 ft (0.436 m) April 14.

REVISIONS.--Revised figures of discharge for the water years 1974-77, superseding those published in the reports for 1974-77 are given herein.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	23	.00	3.0	.00	.00	.00	.00	.00	.00	.00	.00
2	47	24	.00	2.6	.00	.00	.00	.00	.00	.00	.00	.00
3	46	23	.00	1.7	.00	.00	.00	.00	.00	.00	.00	.00
4	47	21	.00	.80	.00	.00	.00	.00	.00	.00	.00	.00
5	48	19	.00	.40	.00	.00	.00	.00	.00	.00	.00	.00
6	45	17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	47	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	48	11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	50	9.4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	49	8.4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	48	6.5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	47	4.3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	45	3.3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	41	2.7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	40	1.2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	35	1.4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	30	2.7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	37	1.5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	44	1.1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	44	.50	13	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	42	.00	29	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	40	.00	23	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	40	.00	19	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	37	.00	16	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	35	.00	13	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	32	.00	9.6	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	30	.00	8.9	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	29	.00	7.7	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	28	.00	6.7	.00	---	.00	.00	.00	.00	.00	.00	.00
30	28	.00	5.8	.00	---	.00	.00	.00	.00	.00	.00	.00
31	23	---	3.8	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	1251	197.00	155.50	8.50	.00	.00	.00	.00	.00	.00	.00	.00
MEAN	40.4	6.57	5.02	.27	.000	.000	.000	.000	.000	.000	.000	.000
MAX	50	24	29	3.0	.00	.00	.00	.00	.00	.00	.00	.00
MIN	23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	2480	391	308	17	.00	.00	.00	.00	.00	.00	.00	.00

CAL YR 1973 TOTAL 12852.50 MEAN 35.2 MAX 787 MIN .00 AC-FT 25490
WTR YR 1974 TOTAL 1612.00 MEAN 4.42 MAX 50 MIN .00 AC-FT 3200

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290769 CANAL 111 ABOVE S-18-C, NEAR FLORIDA CITY, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
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	763	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	770	183	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	931	681	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	918	556	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	931	513	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	823	320	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	611	305	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	303	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	290	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	297	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	153	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	323	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	1270	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.40	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	824	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	.00	.00	.00	.00	.00	.00	.00	.00	2417.40	5747.00	3601.00	.00
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	80.6	185	116	.000
MAX	.00	.00	.00	.00	.00	.00	.00	.00	1270	931	681	.00
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	4790	11400	7140	.00

CAL YR 1974 TOTAL 8.50 MEAN .023 MAX 3.0 MIN .00 AC-FT 17
WTR YR 1975 TOTAL 11765.40 MEAN 32.2 MAX 1270 MIN .00 AC-FT 23340

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290769 CANAL 111 ABOVE S-18-C, NEAR FLORIDA CITY, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
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	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	224	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	540	.00
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	472	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	453	228
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	267	747
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	359
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	784	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	1060	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	1110	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	1320	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	1280	.00	.00	249
15	.00	.00	.00	.00	.00	.00	.00	.00	900	.00	.00	880
16	.00	.00	.00	.00	.00	.00	.00	.00	1300	.00	.00	913
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	509
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	850	499
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1260	524
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	958	476
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	526	293
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	396
24	.00	.00	.00	.00	.00	.00	.00	.00	1370	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	1010	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	1360	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	780	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	483	.00
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	.00	.00	.00	418	.00	.00	.00	.00
31	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
TOTAL	.00	.00	.00	.00	.00	.00	.00	418.00	12274.00	.00	6033.00	6073.00
MEAN	.000	.000	.000	.000	.000	.000	.000	13.5	409	.000	195	202
MAX	.00	.00	.00	.00	.00	.00	.00	418	1370	.00	1260	913
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	829	24350	.00	11970	12050

CAL YR 1975	TOTAL	11765.40	MEAN 32.2	MAX 1270	MIN .00	AC-FT 23340
WTR YR 1976	TOTAL	24798.00	MEAN 67.8	MAX 1370	MIN .00	AC-FT 49190

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290769 CANAL 111 ABOVE S-18-C, NEAR FLORIDA CITY, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	576	.00	.00	.00	.00	.00	.00	.00	292	.00	.00	820
2	543	.00	.00	.00	.00	.00	.00	.00	450	.00	.00	1070
3	.00	.00	.00	.00	.00	.00	.00	.00	1070	.00	.00	1150
4	.00	.00	.00	.00	.00	.00	.00	.00	1070	.00	.00	980
5	.00	.00	.00	.00	.00	.00	.00	.00	880	.00	.00	880
6	.00	.00	.00	.00	.00	.00	.00	.00	490	.00	.00	695
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	290
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	763
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	380
10	.00	.00	.00	.00	.00	.00	.00	415	510	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	756	871	.00	.00	140
12	.00	.00	.00	.00	.00	.00	.00	341	285	.00	.00	437
13	.00	.00	.00	.00	.00	.00	.00	.00	165	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	27	270
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	388
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	627
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	412
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	675
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	322
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	250
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	232
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	290
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	966
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	309
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	322
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	201	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	779	---
TOTAL	1119.00	.00	.00	.00	.00	.00	.00	1512.00	6083.00	.00	1007.00	12668.00
MEAN	36.1	.000	.000	.000	.000	.000	.000	48.8	203	.000	32.5	422
MAX	576	.00	.00	.00	.00	.00	.00	756	1070	.00	779	1150
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	2220	.00	.00	.00	.00	.00	.00	3000	12070	.00	2000	25130

CAL YR 1976	TOTAL	25917.00	MEAN 70.8	MAX 1370	MIN .00	AC-FT 51410
WTR YR 1977	TOTAL	22389.00	MEAN 61.3	MAX 1150	MIN .00	AC-FT 44410

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290769 CANAL 111 ABOVE S-18-C, NEAR FLORIDA CITY, FL

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
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	226	.00	.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	534	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	519
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	914
5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	679
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.9	.00	440
7	296	.00	.00	.00	.00	.00	.00	.00	.00	665	.00	315
8	432	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	418	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	125
10	199	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	156
11	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	196
12	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	543
13	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	292
14	15	.00	.00	.00	.00	.00	.00	.00	.00	357	.00	248
15	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	183
16	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	466
17	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	473
18	4.4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	449	.00	.00	.00	.00	.00	.00	122
21	.00	.00	.00	.00	780	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	605	.00	.00	.00	.00	.00	.00	325
23	.00	.00	.00	.00	266	.00	.00	.00	.00	.00	.00	440
24	.00	.00	.00	.00	.00	.00	292	.00	.00	.00	.00	332
25	.00	.00	.00	.00	.00	.00	390	.00	.00	.00	.00	256
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	304
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	155
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	271
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	1450.40	.00	.00	.00	2100.00	.00	682.00	.00	.00	1783.90	.00	7754.00
MEAN	46.8	.000	.000	.000	75.0	.000	22.7	.000	.000	57.5	.000	258
MAX	432	.00	.00	.00	780	.00	390	.00	.00	665	.00	914
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	2880	.00	.00	.00	4170	.00	1350	.00	.00	3540	.00	15380
CAL YR 1977	TOTAL	22720.40	MEAN	62.2	MAX	1150	MIN	.00	AC-FT	45070		
WTR YR 1978	TOTAL	13770.30	MEAN	37.7	MAX	914	MIN	.00	AC-FT	27310		

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290769 CANAL 111 ABOVE S-18-C, NEAR FLORIDA CITY, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.48	2.21	2.30	1.71	1.14	.67	-.25	-1.08	1.12	2.26	2.59	2.45
2	2.58	2.19	2.23	1.67	1.12	.64	-.30	-1.10	1.19	2.33	2.61	2.47
3	2.51	2.14	2.23	1.62	1.08	.60	-.33	-1.13	1.16	2.17	2.52	2.45
4	2.46	2.12	2.20	1.60	1.06	.55	-.35	-1.17	1.39	2.18	2.37	2.45
5	2.44	2.11	2.19	1.58	1.02	.54	-.40	-1.21	1.60	2.19	2.22	2.44
6	2.44	2.08	2.18	1.56	.99	.55	-.41	-1.20	1.68	2.13	2.31	2.41
7	2.41	2.06	2.15	1.53	1.09	.51	-.45	-1.05	1.67	2.17	2.26	2.39
8	2.41	2.04	2.15	1.50	1.04	.48	-.51	-1.00	1.64	2.40	2.29	2.40
9	2.40	2.01	2.13	1.46	.98	.43	-.55	-1.00	1.58	2.42	2.26	2.43
10	2.43	1.98	2.10	1.43	1.01	.40	-.57	-1.01	1.74	2.44	2.24	2.41
11	2.40	1.93	2.09	1.42	1.03	.37	-.58	-.90	1.68	2.46	2.23	2.45
12	2.40	1.89	2.06	1.38	.96	.33	-.60	-.71	1.70	2.44	2.29	2.41
13	2.38	1.86	2.04	1.40	.92	.30	-.64	-.38	1.72	2.50	2.39	2.39
14	2.35	1.84	2.04	1.41	.88	.27	-.68	-.34	1.69	2.61	2.47	2.38
15	2.34	1.80	2.01	1.35	.85	.26	-.69	-.32	1.66	2.59	2.45	2.42
16	2.29	1.76	2.04	1.32	.84	.28	-.73	.59	1.60	2.57	2.41	2.42
17	2.30	1.74	1.99	1.40	.83	.25	-.79	1.20	1.59	2.55	2.37	2.40
18	2.29	1.73	1.96	1.53	.77	.21	-.81	1.21	1.57	2.56	2.37	2.41
19	2.26	1.72	1.95	1.50	.75	.17	-.86	1.16	1.55	2.57	2.39	2.41
20	2.25	1.69	1.93	1.47	.73	.14	-.89	1.08	1.67	2.57	2.38	2.41
21	2.20	1.67	1.90	1.44	.68	.09	-.89	1.03	1.82	2.57	2.37	2.39
22	2.18	1.65	1.92	1.42	.66	.04	-.90	1.13	1.99	2.56	2.37	2.37
23	2.17	1.60	1.92	1.35	.62	.01	-.93	1.17	2.09	2.53	2.36	2.37
24	2.13	1.59	1.89	1.34	.64	-.03	-.94	1.15	2.26	2.49	2.35	2.35
25	2.25	1.56	1.89	1.31	.81	-.04	-.94	1.17	2.39	2.46	2.31	2.39
26	2.36	1.55	1.85	1.28	.78	-.06	-.94	1.27	2.49	2.46	2.29	2.49
27	2.37	1.85	1.82	1.26	.75	-.08	-.95	1.32	2.54	2.44	2.33	2.56
28	2.35	1.95	1.80	1.22	.71	-.12	-1.02	1.29	2.55	2.40	2.30	2.56
29	2.31	1.92	1.77	1.22	---	-.16	-1.04	1.27	2.30	2.39	2.30	2.51
30	2.28	1.96	1.77	1.21	---	-.19	-1.06	1.21	2.46	2.41	2.41	2.52
31	2.23	---	1.73	1.16	---	-.22	---	1.17	---	2.44	2.45	---
MEAN	2.34	1.87	2.01	1.42	.88	.23	-.70	.16	1.80	2.43	2.36	2.43
MAX	2.58	2.21	2.30	1.71	1.14	.67	-.25	1.32	2.55	2.61	2.61	2.56
MIN	2.13	1.55	1.73	1.16	.62	-.22	-1.06	-1.21	1.12	2.13	2.22	2.35

CAL YR 1974 MEAN 1.45 MAX 2.58 MIN -.77
WTR YR 1975 MEAN 1.44 MAX 2.61 MIN -1.21

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290769 CANAL 111 ABOVE S-18-C, NEAR FLORIDA CITY, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.45	2.48	1.92	1.36	1.38	1.43	.33	.44	2.51	2.48	2.47	2.56
2	2.42	2.45	1.89	1.33	1.75	1.40	.30	.93	2.42	2.47	2.56	2.56
3	2.43	2.42	1.87	1.31	1.66	1.37	.27	1.23	2.39	2.45	2.46	2.60
4	2.45	2.42	1.82	1.30	1.56	1.34	.21	1.29	2.37	2.43	2.08	2.62
5	2.44	2.42	1.82	1.29	1.51	1.30	.16	1.21	2.38	2.43	2.06	2.61
6	2.43	2.42	1.79	1.28	1.45	1.26	.38	1.14	2.53	2.40	2.04	2.53
7	2.42	2.41	1.76	1.25	1.42	1.25	1.02	1.12	2.45	2.38	2.12	2.10
8	2.45	2.39	1.72	1.23	1.35	1.27	1.04	1.07	2.41	2.41	2.37	2.29
9	2.44	2.37	1.72	1.22	1.29	1.21	1.05	1.04	2.45	2.43	2.40	2.46
10	2.43	2.34	1.74	1.20	1.22	1.19	.96	.99	2.29	2.48	2.40	2.47
11	2.42	2.34	1.70	1.16	1.17	1.14	.88	.98	2.46	2.49	2.40	2.54
12	2.39	2.32	1.68	1.14	1.11	1.09	.84	1.00	2.49	2.46	2.41	2.59
13	2.37	2.32	1.63	1.14	1.09	1.06	.79	1.05	2.46	2.45	2.40	2.59
14	2.35	2.28	1.63	1.13	1.07	1.02	.79	1.03	2.33	2.42	2.37	2.52
15	2.33	2.23	1.63	1.15	1.01	.97	.83	1.05	2.37	2.42	2.37	2.26
16	2.28	2.24	1.61	1.27	.96	.92	.80	1.89	2.25	2.43	2.41	2.27
17	2.25	2.23	1.58	1.26	.92	.94	.75	1.87	2.53	2.46	2.45	2.31
18	2.34	2.21	1.56	1.21	.90	.89	.70	1.81	2.56	2.42	2.51	2.60
19	2.39	2.18	1.55	1.17	.85	.84	.66	1.76	2.55	2.40	2.51	2.47
20	2.39	2.15	1.53	1.13	.82	.79	.60	1.70	2.53	2.38	2.44	2.40
21	2.39	2.13	1.51	1.09	.79	.74	.58	1.72	2.50	2.34	2.29	2.31
22	2.37	2.12	1.49	1.11	.76	.70	.61	1.98	2.49	2.39	2.37	2.46
23	2.37	2.10	1.45	1.09	.77	.67	.58	1.99	2.54	2.40	2.57	2.29
24	2.36	2.06	1.44	1.07	.78	.66	.53	1.98	2.39	2.37	2.55	2.61
25	2.33	2.04	1.41	1.05	1.28	.61	.46	1.94	2.20	2.34	2.55	2.60
26	2.31	2.03	1.49	1.02	1.52	.60	.43	1.88	2.26	2.30	2.58	2.60
27	2.26	1.99	1.48	.99	1.53	.54	.48	1.85	2.23	2.24	2.63	2.60
28	2.25	1.98	1.46	1.01	1.51	.51	.64	1.97	2.46	2.20	2.32	2.60
29	2.28	1.98	1.42	.99	1.48	.45	.53	2.38	2.49	2.20	2.57	2.58
30	2.41	1.95	1.38	.94	---	.41	.43	2.38	2.49	2.28	2.59	2.58
31	2.45	---	1.37	.91	---	.37	---	2.51	---	2.40	2.58	---
MEAN	2.38	2.23	1.61	1.15	1.20	.93	.62	1.52	2.43	2.39	2.41	2.49
MAX	2.45	2.48	1.92	1.36	1.75	1.43	1.05	2.51	2.56	2.49	2.63	2.62
MIN	2.25	1.95	1.37	.91	.76	.37	.16	.44	2.20	2.20	2.04	2.10

CAL YR 1975 MEAN 1.44 MAX 2.61 MIN -1.21
WTR YR 1976 MEAN 1.78 MAX 2.63 MIN .16

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290769 CANAL 111 ABOVE S-18-C, NEAR FLORIDA CITY, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.58	2.32	2.41	2.22	2.08	2.30	1.99	2.13	2.39	2.49	2.39	2.60
2	2.58	2.28	2.40	2.21	2.04	2.29	1.95	2.11	2.38	2.30	2.47	2.60
3	2.59	2.25	2.38	2.28	2.03	2.29	1.91	2.06	2.34	2.49	2.51	2.49
4	2.58	2.27	2.36	2.26	2.03	2.54	1.85	2.01	2.31	2.52	2.50	2.34
5	2.56	2.34	2.34	2.25	2.11	2.50	1.83	2.03	2.34	2.53	2.52	2.33
6	2.55	2.33	2.35	2.25	2.13	2.44	1.78	2.07	2.38	2.52	2.58	2.25
7	2.37	2.30	2.37	2.23	2.09	2.40	1.75	2.05	2.35	2.28	2.55	2.20
8	2.08	2.28	2.35	2.21	2.06	2.38	1.72	2.02	2.33	2.44	2.54	2.45
9	2.05	2.26	2.33	2.24	2.17	2.48	1.68	1.96	2.30	2.50	2.54	2.47
10	2.13	2.23	2.35	2.21	2.15	2.55	1.61	2.02	2.25	2.54	2.51	2.32
11	2.30	2.21	2.32	2.19	2.11	2.47	1.56	2.23	2.24	2.53	2.50	2.27
12	2.33	2.18	2.29	2.17	2.08	2.43	1.51	2.20	2.29	2.50	2.56	2.30
13	2.41	2.13	2.27	2.16	2.05	2.40	1.47	2.16	2.47	2.49	2.60	2.33
14	2.41	2.10	2.26	2.20	2.03	2.38	1.62	2.13	2.42	2.45	2.60	2.36
15	2.39	2.07	2.25	2.19	2.00	2.34	1.90	2.11	2.41	2.59	2.59	2.41
16	2.36	2.04	2.21	2.14	1.96	2.34	1.87	2.05	2.44	2.57	2.56	2.36
17	2.35	2.01	2.42	2.10	2.11	2.34	1.80	1.99	2.41	2.54	2.54	2.41
18	2.35	2.00	2.53	2.15	2.37	2.30	1.75	2.18	2.41	2.51	2.49	2.49
19	2.36	1.98	2.50	2.15	2.57	2.26	1.70	2.38	2.44	2.50	2.45	2.50
20	2.34	1.95	2.45	2.36	2.37	2.22	1.65	2.40	2.46	2.46	2.45	2.49
21	2.29	1.92	2.42	2.34	2.21	2.20	1.56	2.35	2.61	2.43	2.45	2.55
22	2.41	1.93	2.40	2.31	2.13	2.19	1.51	2.32	2.62	2.43	2.49	2.51
23	2.50	1.93	2.38	2.28	2.18	2.16	1.50	2.26	2.62	2.46	2.51	2.40
24	2.47	2.40	2.38	2.28	2.36	2.13	2.27	2.22	2.58	2.48	2.60	2.43
25	2.45	2.60	2.35	2.23	2.32	2.11	2.25	2.22	2.51	2.46	2.62	2.43
26	2.42	2.55	2.36	2.27	2.32	2.08	2.36	2.23	2.53	2.41	2.56	2.40
27	2.40	2.49	2.34	2.24	2.31	2.06	2.35	2.36	2.60	2.38	2.54	2.50
28	2.37	2.46	2.30	2.20	2.30	2.09	2.30	2.39	2.61	2.36	2.53	2.54
29	2.36	2.43	2.26	2.17	---	2.11	2.24	2.40	2.59	2.34	2.53	2.48
30	2.34	2.42	2.25	2.13	---	2.07	2.17	2.41	2.58	2.35	2.60	2.45
31	2.34	---	2.22	2.10	---	2.02	---	2.39	---	2.38	2.64	---
MEAN	2.39	2.22	2.35	2.22	2.17	2.29	1.85	2.19	2.44	2.46	2.53	2.42
MAX	2.59	2.60	2.53	2.36	2.57	2.55	2.36	2.41	2.62	2.59	2.64	2.60
MIN	2.05	1.92	2.21	2.10	1.96	2.02	1.47	1.96	2.24	2.28	2.39	2.20

CAL YR 1977	MEAN 2.02	MAX 2.64	MIN .02
WTR YR 1978	MEAN 2.29	MAX 2.64	MIN 1.47

02290769 CANAL 111 ABOVE S-18-C, NEAR FLORIDA CITY, FL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.37	2.27	2.16	1.99	1.82	1.72	.87	.11	2.59	2.26	2.15	2.25
2	2.23	2.28	2.13	1.96	1.82	1.68	.83	.05	2.52	2.22	2.11	2.43
3	2.53	2.62	2.12	1.96	1.80	1.64	.79	.02	2.37	2.19	2.11	2.44
4	2.56	2.58	2.09	1.99	1.78	1.60	.73	.80	2.32	2.13	2.11	2.35
5	2.56	2.54	2.08	1.93	1.75	1.57	.68	2.09	2.19	2.18	2.15	2.25
6	2.55	2.50	2.05	1.92	1.72	1.55	.66	2.09	2.23	2.25	2.24	2.15
7	2.53	2.47	2.02	1.89	1.70	1.53	.61	2.06	2.50	2.24	2.27	2.45
8	2.52	2.44	2.02	1.89	1.69	1.52	.56	2.15	2.57	2.21	2.35	2.45
9	2.58	2.42	1.98	1.85	1.70	1.48	.52	2.31	2.61	2.19	2.35	2.36
10	2.64	2.39	1.93	1.85	1.68	1.82	.49	2.28	2.50	2.17	2.34	2.53
11	2.62	2.37	1.91	1.84	1.66	1.83	1.03	2.09	2.28	2.13	2.35	2.34
12	2.58	2.36	1.92	1.80	1.63	1.81	1.06	2.20	2.42	2.11	2.49	2.32
13	2.55	2.34	1.90	1.77	1.61	1.78	1.04	2.48	2.44	2.09	2.49	2.49
14	2.52	2.32	1.88	1.74	1.62	1.73	.98	2.49	2.49	2.07	2.50	2.53
15	2.49	2.29	1.86	1.85	1.95	1.68	.90	2.46	2.50	2.05	2.46	2.56
16	2.49	2.28	1.86	2.05	2.05	1.64	.84	2.40	2.48	2.29	2.43	2.56
17	2.47	2.25	1.85	2.04	2.01	1.59	.78	2.38	2.46	2.44	2.41	2.64
18	2.46	2.25	1.81	2.00	1.96	1.55	.72	2.35	2.44	2.42	2.40	2.41
19	2.44	2.27	1.78	1.97	1.96	1.49	.64	2.33	2.46	2.41	2.37	2.46
20	2.47	2.32	1.75	1.96	1.92	1.43	.59	2.32	2.47	2.43	2.34	2.45
21	2.56	2.32	1.76	1.93	1.89	1.40	.52	2.30	2.51	2.40	2.34	2.51
22	2.51	2.33	1.71	1.91	1.84	1.38	.47	2.27	2.48	2.36	2.35	2.63
23	2.48	2.31	1.71	1.87	1.82	1.34	.43	2.24	2.43	2.31	2.37	2.40
24	2.44	2.28	1.91	1.85	1.80	1.31	.39	2.18	2.42	2.30	2.40	2.54
25	2.42	2.26	1.92	1.83	1.76	1.23	.39	2.14	2.38	2.29	2.39	2.43
26	2.41	2.22	1.95	1.82	1.72	1.19	.33	2.18	2.37	2.21	2.37	2.49
27	2.39	2.20	1.96	1.78	1.70	1.14	.30	2.16	2.33	2.18	2.41	2.36
28	2.38	2.18	1.93	1.78	1.71	1.08	.23	2.24	2.30	2.17	2.44	2.28
29	2.35	2.16	1.92	1.82	---	1.03	.20	2.33	2.28	2.15	2.43	2.49
30	2.31	2.16	1.90	1.82	---	.98	.15	2.40	2.28	2.16	2.43	2.11
31	2.29	---	1.92	1.78	---	.96	---	2.47	---	2.17	2.29	---
MEAN	2.47	2.33	1.93	1.89	1.79	1.47	.62	2.01	2.42	2.23	2.34	2.42
MAX	2.64	2.62	2.16	2.05	2.05	1.83	1.06	2.49	2.61	2.44	2.50	2.64
MIN	2.23	2.16	1.71	1.74	1.61	.96	.15	.02	2.19	2.05	2.11	2.11
CAL YR 1976	MEAN 1.83											

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290769 CANAL 111 ABOVE S-18-C, NEAR FLORIDA CITY, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.58	2.32	2.41	2.22	2.08	2.30	1.99	2.13	2.39	2.49	2.39	2.60
2	2.58	2.28	2.40	2.21	2.04	2.29	1.95	2.11	2.38	2.30	2.47	2.60
3	2.59	2.25	2.38	2.28	2.03	2.29	1.91	2.06	2.34	2.49	2.51	2.49
4	2.58	2.27	2.36	2.26	2.03	2.54	1.85	2.01	2.31	2.52	2.50	2.34
5	2.56	2.34	2.34	2.25	2.11	2.50	1.83	2.03	2.34	2.53	2.52	2.33
6	2.55	2.33	2.35	2.25	2.13	2.44	1.78	2.07	2.38	2.52	2.58	2.25
7	2.37	2.30	2.37	2.23	2.09	2.40	1.75	2.05	2.35	2.28	2.55	2.20
8	2.08	2.28	2.35	2.21	2.06	2.38	1.72	2.02	2.33	2.44	2.54	2.45
9	2.05	2.26	2.33	2.24	2.17	2.48	1.68	1.96	2.30	2.50	2.54	2.47
10	2.13	2.23	2.35	2.21	2.15	2.55	1.61	2.02	2.25	2.54	2.51	2.32
11	2.30	2.21	2.32	2.19	2.11	2.47	1.56	2.23	2.24	2.53	2.50	2.27
12	2.33	2.18	2.29	2.17	2.08	2.43	1.51	2.20	2.29	2.50	2.56	2.30
13	2.41	2.13	2.27	2.16	2.05	2.40	1.47	2.16	2.47	2.49	2.60	2.33
14	2.41	2.10	2.26	2.20	2.03	2.38	1.62	2.13	2.42	2.45	2.60	2.36
15	2.39	2.07	2.25	2.19	2.00	2.34	1.90	2.11	2.41	2.59	2.59	2.41
16	2.36	2.04	2.21	2.14	1.96	2.34	1.87	2.05	2.44	2.57	2.56	2.36
17	2.35	2.01	2.42	2.10	2.11	2.34	1.80	1.99	2.41	2.54	2.54	2.41
18	2.35	2.00	2.53	2.15	2.37	2.30	1.75	2.18	2.41	2.51	2.49	2.49
19	2.36	1.98	2.50	2.15	2.57	2.26	1.70	2.38	2.44	2.50	2.45	2.50
20	2.34	1.95	2.45	2.36	2.37	2.22	1.65	2.40	2.46	2.46	2.45	2.49
21	2.29	1.92	2.42	2.34	2.21	2.20	1.56	2.35	2.61	2.43	2.45	2.55
22	2.41	1.93	2.40	2.31	2.13	2.19	1.51	2.32	2.62	2.43	2.49	2.51
23	2.50	1.93	2.38	2.28	2.18	2.16	1.50	2.26	2.62	2.46	2.51	2.40
24	2.47	2.40	2.38	2.28	2.36	2.13	2.27	2.22	2.58	2.48	2.60	2.43
25	2.45	2.60	2.35	2.23	2.32	2.11	2.25	2.22	2.51	2.46	2.62	2.43
26	2.42	2.55	2.36	2.27	2.32	2.08	2.36	2.23	2.53	2.41	2.56	2.40
27	2.40	2.49	2.34	2.24	2.31	2.06	2.35	2.36	2.60	2.38	2.54	2.50
28	2.37	2.46	2.30	2.20	2.30	2.09	2.30	2.39	2.61	2.36	2.53	2.54
29	2.36	2.43	2.26	2.17	---	2.11	2.24	2.40	2.59	2.34	2.53	2.48
30	2.34	2.42	2.25	2.13	---	2.07	2.17	2.41	2.58	2.35	2.60	2.45
31	2.34	---	2.22	2.10	---	2.02	---	2.39	---	2.38	2.64	---
MEAN	2.39	2.22	2.35	2.22	2.17	2.29	1.85	2.19	2.44	2.46	2.53	2.42
MAX	2.59	2.60	2.53	2.36	2.57	2.55	2.36	2.41	2.62	2.59	2.64	2.60
MIN	2.05	1.92	2.21	2.10	1.96	2.02	1.47	1.96	2.24	2.28	2.39	2.20

CAL YR 1977 MEAN 2.02 MAX 2.64 MIN .02
WTR YR 1978 MEAN 2.29 MAX 2.64 MIN 1.47

EVERGLADES AND SOUTHEASTERN COASTAL AREA

252948080352700 TAYLOR SLOUGH AT CONTEXT ROAD NEAR HOMESTEAD, FL

LOCATION.--Lat 25°29'48", long 80°35'27", in SE¼ sec.2, T.57 S., R.37 E., Dade County, Hydrologic Unit 03090202, 1.9 mi (3.1 km) west of I-31 Canal, on the north side of Context Road at Bridge 7, and 9.2 mi (14.8 km) northwest of Homestead.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June 1976 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Dade County bench mark).

REMARKS.--Records fair. Figures of daily discharge consist of the flow through all the outlets for a distance of some 7.5 mi (12.1 km) along Context Road.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 210 ft³/s (5.95 m³/s) Sept. 7, 1977; maximum gage height, 6.13 ft (1.868 m) Sept. 7, 1977; no flow for many days each year; minimum gage height, 0.72 ft (0.219 m) May 4, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 139 ft³/s (3.94 m³/s) Sept. 13; maximum gage height, 5.87 ft (1.789 m) Sept. 13; no flow for many days; minimum gage height, 2.70 ft (0.823 m) estimated, Apr. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	.00	.00	.00	.00	.00	.00	.00	.00	4.6	.94	29
2	14	.00	.00	.08	.00	.27	.00	.00	.00	14	.74	30
3	10	.00	.00	.03	.00	.83	.00	.00	.00	13	.43	46
4	4.5	.00	.00	.00	.00	.15	.00	.00	.00	11	.18	67
5	4.3	.00	.00	.00	.00	.09	.00	.00	.00	15	.12	78
6	3.1	.00	.00	.00	.00	.05	.00	.00	.00	26	.00	89
7	2.2	.00	.00	.00	.00	.00	.00	.00	.07	28	.00	93
8	1.7	.00	.00	.00	.00	.67	.00	.00	.01	27	.02	93
9	1.2	.00	.00	.00	.00	.47	.00	.00	.00	24	.19	92
10	.85	.00	.00	.00	.00	.08	.00	.00	.00	21	2.0	107
11	.58	.00	.00	.00	.00	.02	.00	.00	.00	18	5.8	107
12	.22	.00	.00	.00	.00	.00	.00	.00	.00	18	7.4	120
13	.26	.00	.00	.00	.00	.00	.00	.00	.00	16	6.1	139
14	.14	.00	.00	.00	.00	.00	.00	.00	.00	18	3.5	132
15	.07	.00	.00	.00	.00	.00	.00	.00	.00	15	1.4	123
16	.03	.00	.00	.00	.00	.00	.00	.00	.00	11	1.3	111
17	.00	.00	.00	.00	6.9	.00	.00	.00	.00	6.6	1.2	100
18	.00	.00	.00	.00	36	.00	.00	.08	.18	3.9	1.0	88
19	.00	.00	.00	.00	13	.00	.00	.35	.33	2.3	.71	77
20	.00	.00	.00	.00	3.9	.00	.00	.08	.05	1.5	.42	71
21	.00	.00	.00	.00	1.2	.00	.00	.00	.12	1.2	.41	59
22	.00	.00	.00	.00	.27	.00	.00	.00	2.1	.82	.40	54
23	.00	.00	.00	.00	.11	.00	.00	.00	2.2	2.1	1.5	52
24	.00	.00	.00	.00	.07	.00	.00	.00	1.2	2.3	8.0	44
25	.00	.00	.00	.00	.05	.00	.00	.00	1.2	1.2	15	38
26	.00	.00	.00	.00	.00	.00	.00	.00	2.7	.58	13	40
27	.00	.00	.01	.00	.00	.00	.00	.00	1.1	.30	11	37
28	.00	.00	.00	.00	.00	.00	.00	.00	.88	.15	8.6	36
29	.00	.00	.00	.00	---	.00	.00	.00	1.1	.06	6.9	32
30	.00	.00	.00	.00	---	.00	.00	.00	1.1	.00	18	25
31	.00	---	.00	.00	---	.00	---	.00	---	.00	38	---
TOTAL	64.15	.00	.01	.11	61.50	2.63	.00	.51	14.34	302.61	154.26	2209
MEAN	2.07	.000	.000	.004	2.20	.085	.000	.016	.48	9.76	4.98	73.6
MAX	21	.00	.01	.08	36	.83	.00	.35	2.7	28	38	139
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	25
AC-FT	127	.00	.02	.2	122	5.2	.00	1.0	28	600	306	4380

CAL YR 1977 TOTAL 4179.36 MEAN 11.5 MAX 210 MIN .00 AC-FT 8290
WTR YR 1978 TOTAL 2809.12 MEAN 7.70 MAX 139 MIN .00 AC-FT 5570

EVERGLADES AND SOUTHEASTERN COASTAL AREA

252948080352700 TAYLOR SLOUGH AT CONTEXT ROAD NEAR HOMESTEAD, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.35	3.71	4.47	4.08	3.40	4.21	3.29	3.92	3.73	4.96	4.35	5.24
2	5.26	3.65	4.39	4.35	3.37	4.35	3.21	3.80	3.78	5.27	4.32	5.23
3	5.18	3.62	4.32	4.37	3.34	4.77	3.14	3.92	3.74	5.20	4.22	5.40
4	5.06	3.61	4.25	4.27	3.40	4.52	3.08	4.03	3.62	5.12	4.13	5.56
5	5.00	3.60	4.32	4.22	3.44	4.46	3.02	3.90	3.62	5.15	4.03	5.62
6	4.95	3.60	4.40	4.19	3.39	4.42	2.96	3.80	3.67	5.26	3.95	5.68
7	4.87	3.60	4.30	4.15	3.37	4.38	2.87	3.75	4.07	5.23	3.90	5.70
8	4.83	3.58	4.23	4.18	3.58	4.71	2.82	3.72	4.34	5.19	3.95	5.69
9	4.75	3.53	4.24	4.08	3.53	4.69	2.80	3.68	4.02	5.13	4.12	5.68
10	4.70	3.47	4.19	4.01	3.46	4.46	2.78	3.65	3.79	5.06	4.50	5.74
11	4.63	3.41	4.15	3.96	3.42	4.40	2.75	3.65	3.63	4.98	4.73	5.74
12	4.55	3.30	4.13	3.96	3.37	4.37	2.73	3.65	3.77	4.93	4.82	5.79
13	4.50	3.13	4.12	3.99	3.32	4.33	2.70	3.63	4.18	4.88	4.75	5.87
14	4.42	2.97	4.09	3.91	3.26	4.26	2.82	3.58	4.03	4.92	4.65	5.84
15	4.35	2.88	4.08	3.86	3.22	4.20	3.00	3.55	4.01	4.86	4.53	5.79
16	4.31	2.88	4.65	3.84	3.50	4.10	2.98	4.00	3.93	4.78	4.48	5.74
17	4.27	2.87	4.93	3.81	4.47	4.01	2.95	4.25	3.80	4.68	4.45	5.69
18	4.22	3.20	4.77	3.79	5.58	3.95	2.90	4.50	4.28	4.57	4.40	5.63
19	4.22	3.32	4.70	4.03	5.32	3.90	2.85	4.60	4.68	4.48	4.35	5.55
20	4.13	3.28	4.66	4.00	5.08	3.86	2.80	4.50	4.49	4.41	4.32	5.52
21	4.05	3.30	4.58	3.95	4.85	3.81	2.75	4.30	4.56	4.36	4.30	5.42
22	4.17	3.32	4.53	3.90	4.60	3.73	3.15	4.15	4.95	4.30	4.28	5.38
23	4.34	4.67	4.51	3.87	4.48	3.66	3.80	4.00	5.04	4.45	4.50	5.36
24	4.23	5.25	4.50	3.84	4.44	3.59	4.42	3.90	4.93	4.49	4.78	5.27
25	4.19	5.08	4.45	3.77	4.42	3.53	4.52	3.78	4.89	4.37	5.02	5.20
26	4.13	4.92	4.37	3.70	4.37	3.47	4.40	3.77	5.08	4.25	4.97	5.22
27	3.95	4.80	4.09	3.64	4.33	3.41	4.25	3.69	4.92	4.14	4.92	5.19
28	3.87	4.71	4.16	3.58	4.26	3.47	4.10	3.66	4.87	4.04	4.86	5.18
29	3.85	4.64	4.11	3.52	---	3.34	4.07	3.63	4.87	3.96	4.81	5.13
30	3.80	4.55	4.08	3.46	---	3.38	4.00	3.63	4.84	3.89	5.02	5.04
31	3.75	---	4.05	3.43	---	3.39	---	3.66	---	3.85	5.34	---
MEAN	4.45	3.75	4.35	3.93	3.95	4.04	3.26	3.88	4.27	4.68	4.51	5.50
MAX	5.35	5.25	4.93	4.37	5.58	4.77	4.52	4.60	5.08	5.27	5.34	5.87
MIN	3.75	2.87	4.05	3.43	3.22	3.34	2.70	3.55	3.62	3.85	3.90	5.04
CAL YR 1977	MEAN	3.73	MAX	6.09	MIN	.75						
WTR YR 1978	MEAN	4.22	MAX	5.87	MIN	2.70						

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290800 TAYLOR SLOUGH NEAR HOMESTEAD, FL

LOCATION.--Lat 25°24'05", long 80°36'25", in NE¼ sec.10, T.58 S., R.37 E., Dade County, Hydrologic Unit 03090202, at upstream (north) side of bridge on State Highway 27, in Everglades National Park, 1.5 mi (2.4 km) north of Royal Palm Ranger Station, and 9 mi (14 km) southwest of Homestead.

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 (Dade County bench mark). Prior to Oct. 1, 1965, at datum 1.19 ft (0.363 m) lower.

REMARKS.--Records fair. Figures of daily discharge consist of runoff from Taylor Slough, as represented by the flow through all the outlets for a distance of some 3 mi (5 km) along State Highway 27 in the Everglades National Park. During periods of extremes high water possibly some flow is diverted from Shark River Slough.

AVERAGE DISCHARGE.--18 years, 37.1 ft³/s (1.05 m³/s), 26,860 acre-ft/yr (33.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 808 ft³/s (22.9 m³/s) Sept. 23-25, 1960, gage height, 5.28 ft (1.609 m) present datum; no flow for many days in most years; minimum gage height, -1.67 ft (-0.509 m) estimated, present datum May 14, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 321 ft³/s (9.09 m³/s) Sept. 14; gage height, 4.64 ft (1.414 m); no flow for many days; minimum gage height, 1.43 ft (0.436 m) Apr. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158	6.6	18	2.9	.00	7.6	.00	.00	15	24	12	123
2	143	5.2	15	2.1	.00	6.4	.00	.00	15	25	13	153
3	122	3.8	13	4.8	.00	7.1	.00	.00	15	31	14	186
4	117	2.7	11	6.4	.00	13	.00	.00	13	36	12	196
5	106	2.6	9.0	6.0	.00	12	.00	.00	15	35	12	205
6	93	1.8	8.3	5.4	.00	10	.00	.00	21	42	14	225
7	81	.65	8.4	4.8	.00	9.2	.00	.00	18	53	15	224
8	71	.00	6.9	4.2	.00	8.2	.00	.00	16	53	17	210
9	62	.00	5.8	4.9	.00	11	.00	.00	13	52	17	206
10	53	.00	7.7	3.6	.00	13	.00	.00	10	49	15	236
11	45	.00	6.7	2.4	.00	12	.00	.00	7.9	44	14	251
12	38	.00	5.4	1.5	.00	10	.00	.00	6.7	38	26	264
13	37	.00	4.2	1.6	.00	9.2	.00	.00	8.7	36	57	259
14	32	.00	3.3	2.5	.00	8.1	.00	.00	7.8	44	67	285
15	26	.00	2.4	1.5	.00	7.0	.00	.00	6.9	46	61	298
16	22	.00	1.4	.40	.00	5.8	.00	.00	6.7	39	53	268
17	19	.00	15	.00	.90	4.3	.00	.00	5.5	32	44	241
18	16	.00	29	.00	7.2	2.7	.00	.11	6.2	25	35	212
19	14	.00	28	.53	20	1.6	.00	4.8	11	21	29	181
20	12	.00	24	8.5	26	.58	.00	16	13	17	27	160
21	9.7	.00	21	7.9	25	.00	.00	17	15	15	24	140
22	12	.00	17	6.3	21	.00	.00	15	22	15	22	131
23	17	.00	15	4.9	17	.00	.00	13	29	16	21	124
24	17	13	13	3.6	14	.00	6.0	11	28	16	29	113
25	16	40	12	2.5	12	.00	14	9.7	26	14	47	125
26	14	43	11	1.2	11	.00	12	9.1	23	12	54	138
27	13	38	8.9	.04	9.8	.00	9.3	11	23	10	53	106
28	11	32	7.3	.00	8.7	.00	6.2	12	24	8.0	48	89
29	9.7	26	5.9	.00	---	.00	3.5	13	25	6.3	46	79
30	8.2	22	4.7	.00	---	.00	.74	15	23	8.6	68	74
31	7.3	---	3.8	.00	---	.00	---	15	---	15	106	---
TOTAL	1401.9	237.35	342.1	90.47	172.60	158.78	51.74	161.71	469.4	877.9	1072	5502
MEAN	45.2	7.91	11.0	2.92	6.16	5.12	1.72	5.22	15.6	28.3	34.6	183
MAX	158	43	29	8.5	26	13	14	17	29	53	106	298
MIN	7.3	.00	1.4	.00	.00	.00	.00	.00	5.5	6.3	12	74
AC-FT	2780	471	679	179	342	315	103	321	931	1740	2130	10910
CAL YR 1977	TOTAL	14289.37	MEAN	39.1	MAX	432	MIN	.00	AC-FT	28340		
WTR YR 1978	TOTAL	10537.95	MEAN	28.9	MAX	298	MIN	.00	AC-FT	20900		

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290800 TAYLOR SLOUGH NEAR HOMESTEAD, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.19	2.78	3.11	2.62	2.31	2.78	2.26	2.66	3.12	3.20	2.87	3.94
2	4.15	2.74	3.03	2.59	2.28	2.74	2.21	2.58	3.12	3.22	2.89	4.07
3	4.10	2.69	2.95	2.69	2.25	2.76	2.15	2.50	3.13	3.29	2.93	4.20
4	4.05	2.65	2.89	2.74	2.22	2.97	2.10	2.42	3.05	3.33	2.88	4.24
5	3.99	2.64	2.83	2.72	2.30	2.92	2.06	2.47	3.11	3.32	2.88	4.28
6	3.91	2.61	2.80	2.70	2.33	2.87	2.01	2.61	3.28	3.38	2.93	4.35
7	3.84	2.57	2.80	2.68	2.29	2.83	1.96	2.55	3.24	3.48	2.98	4.35
8	3.77	2.53	2.75	2.66	2.28	2.80	1.91	2.48	3.17	3.47	3.03	4.30
9	3.70	2.49	2.72	2.69	2.39	2.91	1.86	2.42	3.07	3.46	3.03	4.28
10	3.63	2.46	2.78	2.64	2.37	2.97	1.81	2.36	2.98	3.43	2.98	4.39
11	3.56	2.41	2.75	2.60	2.34	2.92	1.75	2.36	2.89	3.37	2.96	4.44
12	3.50	2.36	2.70	2.57	2.31	2.87	1.70	2.36	2.84	3.32	3.21	4.49
13	3.48	2.31	2.66	2.58	2.27	2.83	1.65	2.39	2.90	3.28	3.54	4.47
14	3.41	2.27	2.63	2.61	2.24	2.79	1.67	2.37	2.86	3.36	3.62	4.54
15	3.34	2.24	2.60	2.57	2.20	2.76	1.78	2.34	2.82	3.38	3.58	4.58
16	3.26	2.21	2.57	2.54	2.17	2.72	1.76	2.29	2.81	3.33	3.51	4.50
17	3.18	2.18	3.00	2.52	2.31	2.67	1.71	2.25	2.77	3.24	3.44	4.43
18	3.10	2.15	3.31	2.51	2.76	2.61	1.66	2.41	2.78	3.16	3.35	4.35
19	3.04	2.12	3.29	2.53	3.15	2.58	1.62	2.77	2.92	3.07	3.28	4.27
20	2.97	2.09	3.23	2.81	3.26	2.54	1.59	3.13	2.99	3.00	3.24	4.23
21	2.91	2.06	3.17	2.79	3.25	2.51	1.54	3.15	3.05	2.93	3.20	4.19
22	2.97	2.04	3.09	2.73	3.17	2.48	1.50	3.09	3.19	2.92	3.16	4.17
23	3.14	2.03	3.02	2.69	3.08	2.45	1.49	3.02	3.32	2.96	3.14	4.17
24	3.13	2.77	2.97	2.64	3.00	2.41	2.76	2.96	3.31	2.97	3.26	4.15
25	3.09	3.44	2.92	2.61	2.94	2.37	3.19	2.90	3.27	2.91	3.46	4.18
26	3.05	3.47	2.88	2.56	2.89	2.33	3.14	2.89	3.21	2.85	3.52	4.26
27	3.00	3.42	2.82	2.51	2.85	2.28	3.05	2.95	3.20	2.78	3.51	4.19
28	2.94	3.34	2.77	2.46	2.81	2.28	2.94	2.99	3.21	2.72	3.47	4.10
29	2.89	3.27	2.72	2.42	---	2.27	2.84	3.03	3.22	2.66	3.45	4.04
30	2.84	3.19	2.68	2.38	---	2.23	2.74	3.10	3.19	2.74	3.62	4.01
31	2.81	---	2.65	2.34	---	2.25	---	3.10	---	2.94	3.85	---
MEAN	3.39	2.58	2.87	2.60	2.57	2.64	2.08	2.67	3.07	3.14	3.25	4.27
MAX	4.19	3.47	3.31	2.81	3.26	2.97	3.19	3.15	3.32	3.48	3.85	4.58
MIN	2.81	2.03	2.57	2.34	2.17	2.23	1.49	2.25	2.77	2.66	2.87	3.94
CAL YR 1977	MEAN	2.62	MAX	4.59	MIN	.55						
WTR YR 1978	MEAN	2.93	MAX	4.58	MIN	1.49						

EVERGLADES AND SOUTHEREASTERN COASTAL AREA

02290803 TAYLOR SLOUGH AT ROYAL PALM NEAR HOMESTEAD, FL

LOCATION.--Lat 25°24'07", long 80°40'15", in NW¼ sec.7, T.58 S., R.37 E., Dade County, Hydrologic Unit 03090202, at end of north walkway of Anhinga Trail in Everglades National Park, 1.5 mi (2.4 km) south of State Highway 27, and 9.5 mi (15.3 km) southwest of Homestead.

PERIOD OF RECORD.--February 1968 to current year (gage heights).

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929.

REMARKS.--Gage records water levels in the southeastern portion of the Everglades National Park.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 4.35 ft (1.326 m) July 7, 1968; minimum, -1.50 ft (-0.457 m) May 14, 15, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 3.90 ft (1.189 m) Sept. 27; minimum gage height, 1.33 ft (0.405 m) Apr. 23.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.82	2.48	2.86	2.39	2.15	2.58	1.96	2.48	2.83	2.82	2.42	3.41
2	3.78	2.47	2.79	2.37	2.12	2.53	1.98	2.39	2.83	2.82	2.41	3.42
3	3.76	2.44	2.69	2.41	2.09	2.50	1.98	2.28	2.87	2.83	2.48	3.43
4	3.73	2.40	2.64	2.45	2.05	2.65	1.95	2.21	2.86	2.86	2.44	3.44
5	3.66	2.36	2.58	2.45	2.06	2.67	1.91	2.20	2.84	2.88	2.42	3.45
6	3.60	2.34	2.53	2.45	2.10	2.64	1.87	2.25	3.08	2.91	2.43	3.49
7	3.50	2.32	2.52	2.43	2.09	2.59	1.79	2.26	3.07	2.98	2.45	3.54
8	3.43	2.30	2.52	2.41	2.06	2.55	1.78	2.20	2.98	2.98	2.47	3.54
9	3.37	2.26	2.48	2.40	2.06	2.58	1.71	2.14	2.86	2.99	2.47	3.54
10	3.30	2.20	2.44	2.41	2.10	2.65	1.68	2.10	2.73	2.93	2.43	3.53
11	3.23	2.17	2.48	2.37	2.10	2.67	1.60	2.14	2.65	2.92	2.41	3.54
12	3.16	2.13	2.47	2.33	2.08	2.66	1.54	2.14	2.57	2.88	2.55	3.58
13	3.14	2.08	2.45	2.30	2.05	2.63	1.50	2.13	2.60	2.85	2.87	3.60
14	3.13	2.05	2.40	2.32	2.01	2.59	1.47	2.13	2.59	2.85	3.03	3.60
15	3.04	2.03	2.38	2.33	2.00	2.54	1.62	2.09	2.55	2.91	3.04	3.63
16	2.95	2.00	2.33	2.28	1.95	2.52	1.64	2.06	2.49	2.91	3.03	3.65
17	2.87	1.97	2.42	2.28	1.96	2.45	1.63	2.01	2.47	2.83	3.00	3.66
18	2.80	1.96	2.46	2.30	2.33	2.40	1.61	2.08	2.43	2.73	2.93	3.67
19	2.70	1.93	3.04	2.30	2.73	2.36	1.57	2.35	2.56	2.68	2.84	3.68
20	2.63	1.91	2.97	2.49	2.82	2.33	1.54	2.68	2.60	2.64	2.77	3.71
21	2.56	1.88	2.91	2.58	2.89	2.28	1.47	2.74	2.72	2.59	2.74	3.74
22	2.50	1.85	2.85	2.56	2.86	2.25	1.44	2.76	2.81	2.52	2.71	3.77
23	2.61	1.84	2.78	2.53	2.86	2.24	1.37	2.73	2.91	2.53	2.69	3.84
24	2.70	2.15	2.72	2.49	2.85	2.19	2.39	2.67	2.99	2.55	2.72	3.85
25	2.71	2.79	2.72	2.45	2.81	2.17	2.92	2.61	2.98	2.52	2.86	3.86
26	2.69	2.99	2.67	2.42	2.76	2.14	2.95	2.55	2.90	2.48	2.94	3.88
27	2.68	3.05	2.62	2.37	2.67	2.10	2.89	2.62	2.87	2.42	3.04	3.87
28	2.62	3.00	2.56	2.31	2.58	2.05	2.78	2.68	2.89	2.38	3.05	3.74
29	2.57	2.94	2.50	2.26	---	2.08	2.67	2.74	2.85	2.32	3.01	3.72
30	2.53	2.91	2.46	2.22	---	2.07	2.56	2.85	2.83	2.34	3.14	3.69
31	2.48	---	2.43	2.18	---	2.01	---	2.86	---	2.47	3.38	---
MEAN	3.04	2.31	2.62	2.38	2.33	2.41	1.93	2.39	2.77	2.72	2.75	3.64
MAX	3.82	3.05	3.04	2.58	2.89	2.67	2.95	2.86	3.08	2.99	3.38	3.88
MIN	2.48	1.84	2.33	2.18	1.95	2.01	1.37	2.01	2.43	2.32	2.41	3.41

CAL YR 1977 MEAN 2.36 MAX 4.29 MIN -.03
WTR YR 1978 MEAN 2.61 MAX 3.88 MIN 1.37

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290810 EVERGLADES 207 NEAR HOMESTEAD, FL

LOCATION.--Lat 25°17'30", long 80°40'30", in sec.36, T.50 S., R.36 E., Dade County, Hydrologic Unit 03090202, in the Everglades, 7.5 mi (12.1 km) southwest of Royal Palm Ranger Station, and 18 mi (29 km) southwest of Homestead.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1953 to current year (gage heights). Records of gage heights prior to October 1962 are available in files of the Geological Survey. Prior to October 1977, published as "Everglades P-37 near Homestead".

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Dade County bench mark). Prior to Oct. 1, 1963, at datum 0.32 ft (0.098 m) lower.

REMARKS.--Elevation of the land surface is about 0.6 ft (0.183 m).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 3.05 ft (0.930 m) present datum Sept. 11, 1960; minimum, -1.97 ft (-0.600 m) May 14, 1971 (estimated).

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 2.00 ft (0.610 m) Sept. 15; minimum, 0.61 ft (0.186 m) Apr. 23.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.75	1.36	1.30	1.37	1.21	1.35	1.09	.89	1.37	1.59	1.25	1.57
2	1.75	1.35	1.30	1.36	1.21	1.34	1.06	.87	1.39	1.57	1.29	1.59
3	1.74	1.33	1.30	1.35	1.19	1.35	1.04	.85	1.39	1.56	1.29	1.61
4	1.71	1.32	1.29	1.35	1.19	1.47	1.01	.83	1.37	1.55	1.27	1.61
5	1.66	1.31	1.28	1.35	1.23	1.46	.99	.92	1.34	1.53	1.27	1.68
6	1.64	1.31	1.28	1.35	1.23	1.44	.97	.93	1.31	1.57	1.31	1.72
7	1.64	1.31	1.28	1.35	1.22	1.41	.95	.91	1.29	1.56	1.32	1.74
8	1.61	1.29	1.28	1.34	1.22	1.39	.93	.88	1.28	1.54	1.33	1.74
9	1.58	1.28	1.27	1.31	1.26	1.44	.90	.86	1.29	1.52	1.31	1.73
10	1.57	1.26	1.26	1.29	1.25	1.46	.88	.84	1.27	1.53	1.29	1.95
11	1.56	1.24	1.25	1.27	1.23	1.44	.85	.89	1.24	1.52	1.28	1.97
12	1.54	1.22	1.24	1.26	1.21	1.42	.83	1.16	1.24	1.50	1.32	1.98
13	1.52	1.19	1.23	1.26	1.20	1.39	.81	1.16	1.32	1.51	1.50	1.98
14	1.49	1.18	1.23	1.27	1.19	1.37	.79	1.14	1.31	1.52	1.55	1.97
15	1.47	1.17	1.23	1.26	1.17	1.35	.78	1.10	1.34	1.51	1.53	2.01
16	1.45	1.16	1.22	1.25	1.16	1.33	.82	1.06	1.37	1.49	1.50	1.99
17	1.42	1.15	1.39	1.24	1.19	1.31	.79	1.03	1.34	1.47	1.48	1.94
18	1.40	1.13	1.55	1.25	1.35	1.27	.76	1.05	1.35	1.44	1.45	1.90
19	1.38	1.12	1.56	1.25	1.53	1.25	.73	1.11	1.49	1.42	1.43	1.86
20	1.37	1.11	1.54	1.37	1.53	1.23	.71	1.15	1.49	1.39	1.48	1.83
21	1.35	1.10	1.51	1.38	1.51	1.22	.68	1.12	1.47	1.39	1.54	1.81
22	1.40	1.11	1.49	1.37	1.47	1.21	.66	1.11	1.45	1.37	1.54	1.80
23	1.49	1.10	1.47	1.35	1.44	1.19	.64	1.10	1.46	1.36	1.52	1.82
24	1.51	1.21	1.46	1.34	1.42	1.18	.96	1.10	1.46	1.36	1.66	1.80
25	1.51	1.29	1.45	1.34	1.40	1.16	1.10	1.13	1.43	1.36	1.77	1.91
26	1.48	1.31	1.45	1.32	1.39	1.14	1.07	1.22	1.42	1.33	1.72	1.86
27	1.46	1.31	1.43	1.30	1.37	1.12	1.03	1.29	1.49	1.32	1.67	1.81
28	1.44	1.31	1.41	1.28	1.36	1.13	.99	1.34	1.48	1.30	1.63	1.79
29	1.42	1.32	1.39	1.26	---	1.14	.95	1.36	1.49	1.29	1.59	1.77
30	1.40	1.33	1.39	1.24	---	1.12	.91	1.37	1.51	1.27	1.56	1.75
31	1.38	---	1.37	1.23	---	1.10	---	1.36	---	1.26	1.55	---
MEAN	1.52	1.24	1.36	1.31	1.30	1.30	.89	1.07	1.38	1.45	1.46	1.82
MAX	1.75	1.36	1.56	1.38	1.53	1.47	1.10	1.37	1.51	1.59	1.77	2.01
MIN	1.35	1.10	1.22	1.23	1.16	1.10	.64	.83	1.24	1.26	1.25	1.57

CAL YR 1977 MEAN 1.10 MAX 1.89 MIN -.56
WTR YR 1978 MEAN 1.34 MAX 2.01 MIN .64

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290811 EVERGLADES 206 NP NEAR MIAMI, FL

LOCATION.--Lat 25°32'42", long 80°40'29", in sec*, T.57 S., R.37 E., Dade County, Hydrologic Unit 03090202, 16 mi (26 km) south of the southern end of levee 67, and 35 mi (56 km) west of Dade County Courthouse in Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder and Data Collection Platform (DCP). Datum of gage is National Geodetic Vertical Datum 1929. Prior to October 1976, at datum 6.24 ft (1.902 m) lower.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 6.36 ft (1.939 m) Sept. 14, 1978; minimum, 0.81 ft (0.247 m), May 3, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 6.36 ft (1.939 m) Sept 14; minimum, 2.60 ft (0.792 m) Apr. 23.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.03	4.80	5.29	4.79	3.85	5.29	4.20	4.11	4.20	5.85	5.39	6.00
2	6.01	4.74	5.26	4.83	3.80	5.24	4.10	3.99	4.24	5.90	5.40	6.10
3	5.97	4.68	5.22	4.97	3.76	5.33	3.98	3.88	4.34	5.88	5.46	6.21
4	5.91	4.60	5.18	4.99	3.72	5.69	3.87	3.76	4.25	5.87	5.42	6.18
5	5.85	4.50	5.14	4.95	3.76	5.65	3.77	3.82	4.17	5.88	5.49	6.16
6	5.71	4.75	5.21	4.91	3.84	5.61	3.67	3.84	4.15	5.92	5.76	6.15
7	5.59	4.95	5.31	4.88	3.78	5.57	3.58	3.81	4.45	5.95	5.78	6.13
8	5.49	4.87	5.26	4.85	3.76	5.53	3.50	3.73	4.90	5.96	5.75	6.11
9	5.40	4.78	5.24	4.89	4.00	5.62	3.41	3.63	5.10	5.93	5.76	6.09
10	5.34	4.70	5.34	4.82	4.02	5.69	3.33	3.55	5.12	5.91	5.74	6.07
11	5.28	4.62	5.29	4.74	3.94	5.65	3.25	3.69	5.12	5.88	5.73	6.06
12	5.22	4.55	5.23	4.68	3.85	5.61	3.17	3.72	5.10	5.85	5.74	6.12
13	5.16	4.50	5.18	4.73	3.79	5.57	3.10	3.68	5.05	5.83	5.77	6.20
14	5.10	4.44	5.16	4.81	3.71	5.52	3.02	3.61	4.98	5.82	5.82	6.26
15	5.04	4.39	5.11	4.71	3.63	5.47	2.98	3.49	4.90	5.80	5.82	6.29
16	4.98	4.33	5.06	4.62	3.57	5.42	3.06	3.37	4.80	5.78	5.81	6.24
17	4.92	4.30	5.32	4.59	3.88	5.34	3.03	3.25	4.75	5.75	5.80	6.20
18	4.86	4.25	5.46	4.55	4.86	5.24	2.97	3.38	4.72	5.72	5.79	6.16
19	4.80	4.20	5.43	4.52	5.55	5.15	2.91	3.83	5.00	5.70	5.79	6.13
20	4.73	4.14	5.39	4.71	5.53	5.07	2.85	4.11	5.45	5.67	5.83	6.10
21	4.67	4.09	5.35	4.63	5.58	5.00	2.78	4.14	5.65	5.64	5.91	6.09
22	4.62	4.35	5.30	4.54	5.56	4.92	2.70	4.19	5.70	5.64	5.89	6.08
23	4.56	4.35	5.24	4.48	5.52	4.82	2.75	4.34	5.72	5.70	5.89	6.07
24	4.75	5.08	5.20	4.44	5.49	4.72	4.81	4.21	5.72	5.69	6.07	6.05
25	4.95	5.47	5.17	4.40	5.46	4.65	4.88	4.17	5.70	5.65	6.12	6.03
26	5.15	5.44	5.15	4.34	5.42	4.59	4.78	4.26	5.71	5.60	6.08	6.02
27	5.09	5.39	5.07	4.24	5.38	4.48	4.63	4.21	5.73	5.56	6.04	6.00
28	5.03	5.36	4.99	4.14	5.34	4.45	4.48	4.18	5.79	5.52	6.01	5.99
29	4.97	5.34	4.93	4.05	---	4.45	4.34	4.15	5.79	5.48	6.00	6.05
30	4.92	5.32	4.88	3.97	---	4.37	4.22	4.11	5.79	5.47	6.02	6.04
31	4.86	---	4.83	3.90	---	4.26	---	4.13	---	5.43	6.02	---
MEAN	5.19	4.71	5.20	4.60	4.44	5.16	3.60	3.88	5.07	5.75	5.80	6.11
MAX	6.03	5.47	5.46	4.99	5.58	5.69	4.88	4.34	5.79	5.96	6.12	6.29
MIN	4.56	4.09	4.83	3.90	3.57	4.26	2.70	3.25	4.15	5.43	5.39	5.99

CAL YR 1977 MEAN 4.41 MAX 6.23 MIN .81
WTR YR 1978 MEAN 4.97 MAX 6.29 MIN 2.70

02290815 EVERGLADES P-33 NEAR HOMESTEAD, FL

DRAINAGE AREA.--Indeterminate.

GAGE.--Water-stage and rainfall recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 7.80 ft (2.377 m) Oct. 24, 1969; minimum, 2.20 ft (0.671 m) May 29, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 7.16 ft (2.182 m) estimated, Sept. 30; minimum, 5.75 ft (1.753 m) estimated, June 5.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.24	6.22	6.31	6.17	6.13	6.13	6.23	6.05	5.78	6.25	6.40	7.02
2	6.23	6.22	6.30	6.16	6.13	6.13	6.23	6.04	5.76	6.27	6.40	7.00
3	6.22	6.22	6.27	6.16	6.13	6.13	6.23	6.02	5.78	6.26	6.41	7.00
4	6.20	6.22	6.27	6.16	6.12	6.15	6.23	6.01	5.76	6.22	6.42	6.98
5	6.19	6.26	6.27	6.16	6.12	6.15	6.23	6.00	5.75	6.20	6.43	6.98
6	6.18	6.27	6.29	6.15	6.12	6.14	6.22	5.99	5.76	6.22	6.44	6.97
7	6.18	6.27	6.31	6.15	6.12	6.13	6.20	5.97	5.76	6.24	6.45	6.98
8	6.18	6.27	6.30	6.15	6.12	6.13	6.19	5.96	5.78	6.25	6.50	7.00
9	6.18	6.27	6.28	6.13	6.12	6.14	6.17	5.95	5.85	6.25	6.55	7.02
10	6.17	6.27	6.28	6.13	6.13	6.16	6.16	5.94	5.92	6.25	6.70	7.05
11	6.17	6.26	6.28	6.13	6.13	6.15	6.15	5.92	5.98	6.23	6.76	7.08
12	6.16	6.25	6.28	6.13	6.12	6.14	6.13	5.91	6.00	6.22	6.82	7.08
13	6.16	6.25	6.28	6.13	6.12	6.14	6.12	5.89	6.02	6.20	6.86	7.09
14	6.15	6.24	6.26	6.13	6.11	6.14	6.12	5.87	6.03	6.20	6.95	7.10
15	6.15	6.24	6.26	6.13	6.11	6.13	6.12	5.85	6.04	6.18	6.96	7.08
16	6.15	6.23	6.26	6.13	6.11	6.13	6.12	5.84	6.02	6.19	6.98	7.06
17	6.15	6.23	6.30	6.13	6.11	6.12	6.11	5.82	6.01	6.22	6.98	7.06
18	6.14	6.23	6.34	6.13	6.15	6.12	6.11	5.85	6.02	6.25	6.99	7.08
19	6.15	6.23	6.33	6.13	6.23	6.11	6.10	5.89	6.05	6.26	7.00	7.05
20	6.15	6.23	6.32	6.13	6.22	6.11	6.10	5.89	6.08	6.28	7.02	7.05
21	6.15	6.23	6.29	6.13	6.21	6.11	6.09	5.86	6.10	6.30	7.00	7.06
22	6.17	6.26	6.27	6.13	6.20	6.10	6.08	5.86	6.12	6.32	7.00	7.06
23	6.21	6.27	6.26	6.13	6.18	6.09	6.08	5.86	6.15	6.35	7.00	7.08
24	6.21	6.31	6.25	6.14	6.17	6.09	6.11	5.85	6.16	6.36	7.02	7.08
25	6.21	6.35	6.24	6.14	6.16	6.10	6.12	5.85	6.17	6.35	7.03	7.09
26	6.21	6.35	6.23	6.14	6.15	6.12	6.11	5.84	6.18	6.35	7.04	7.10
27	6.22	6.34	6.22	6.14	6.14	6.13	6.10	5.83	6.20	6.35	7.02	7.12
28	6.21	6.33	6.21	6.14	6.14	6.15	6.09	5.82	6.24	6.34	7.05	7.14
29	6.21	6.32	6.20	6.14	---	6.18	6.09	5.81	6.25	6.35	7.06	7.15
30	6.22	6.32	6.18	6.14	---	6.20	6.07	5.81	6.25	6.36	7.05	7.16
31	6.22	---	6.18	6.13	---	6.21	---	5.80	---	6.38	7.02	---
MEAN	6.19	6.27	6.27	6.14	6.14	6.13	6.14	5.90	6.00	6.27	6.82	7.06
MAX	6.24	6.35	6.34	6.17	6.23	6.21	6.23	6.05	6.25	6.38	7.06	7.16
MIN	6.14	6.22	6.18	6.13	6.11	6.09	6.07	5.80	5.75	6.18	6.40	6.97

CAL YR 1977	MEAN 5.93	MAX 6.46	MIN 4.97
WTR YR 1978	MEAN 6.28	MAX 7.16	MIN 5.75

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290820 EVERGLADES P-38 NEAR HOMESTEAD, FL

LOCATION.--Lat 25°22'22", long 80°50'01", in sec.33, T.58 S., R.35 E., Dade County, Hydrologic Unit 03090202, in the Everglades, 12.5 mi (20.1 km) west of Royal Palm Ranger Station, and 22 mi (35 km) southwest of Homestead.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1953 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 (Dade County bench mark). Prior to Oct. 1, 1963, at datum 0.41 ft (0.125 m) lower.

REMARKS.--Elevation of the land surface is about 0.9 ft (0.27 m).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 2.92 ft (0.890 m) present datum Sept. 12, 1960; minimum, -1.45 (-0.442 m) May 13, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 2.15 ft (0.655 m) Sept. 27, 28; minimum, 0.90 ft (0.274 m) Apr. 15, 23.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.05	1.33	1.56	1.64	1.28	1.48	1.23	1.33	1.53	1.66	1.42	2.10
2	2.04	1.33	1.55	1.62	1.27	1.46	1.21	1.31	1.52	1.63	1.50	2.09
3	2.04	1.32	1.54	1.60	1.26	1.46	1.19	1.28	1.50	1.63	1.52	2.07
4	2.02	1.31	1.52	1.60	1.25	1.55	1.17	1.27	1.48	1.62	1.54	2.07
5	1.96	1.34	1.50	1.58	1.26	1.54	1.15	1.29	1.45	1.60	1.53	2.07
6	1.92	1.35	1.49	1.55	1.26	1.53	1.13	1.28	1.43	1.61	1.52	2.09
7	1.89	1.34	1.50	1.55	1.25	1.52	1.11	1.25	1.40	1.62	1.47	2.08
8	1.84	1.35	1.50	1.53	1.25	1.50	1.09	1.23	1.38	1.59	1.45	2.07
9	1.80	1.35	1.49	1.49	1.28	1.53	1.07	1.21	1.36	1.57	1.42	2.06
10	1.77	1.36	1.48	1.47	1.27	1.56	1.03	1.18	1.33	1.54	1.40	2.05
11	1.73	1.36	1.48	1.46	1.26	1.54	1.02	1.21	1.34	1.51	1.38	2.06
12	1.70	1.35	1.46	1.44	1.24	1.53	.99	1.28	1.41	1.49	1.41	2.08
13	1.67	1.34	1.45	1.45	1.23	1.51	.96	1.31	1.47	1.48	1.47	2.10
14	1.64	1.33	1.46	1.45	1.22	1.50	.94	1.32	1.49	1.51	1.50	2.09
15	1.61	1.32	1.50	1.44	1.21	1.48	.98	1.32	1.53	1.49	1.51	2.08
16	1.59	1.30	1.55	1.42	1.20	1.46	1.06	1.30	1.51	1.47	1.55	2.09
17	1.56	1.29	1.65	1.41	1.27	1.43	1.04	1.29	1.48	1.45	1.69	2.08
18	1.53	1.28	1.72	1.41	1.41	1.40	1.02	1.29	1.53	1.42	1.68	2.07
19	1.50	1.27	1.75	1.40	1.53	1.38	1.01	1.31	1.61	1.41	1.66	2.05
20	1.48	1.25	1.75	1.44	1.53	1.37	1.00	1.33	1.61	1.39	1.65	2.04
21	1.45	1.24	1.76	1.43	1.55	1.35	.97	1.32	1.64	1.38	1.66	2.04
22	1.46	1.23	1.77	1.41	1.55	1.33	.95	1.34	1.63	1.39	1.66	2.03
23	1.49	1.22	1.76	1.41	1.55	1.31	.97	1.37	1.61	1.40	1.71	2.02
24	1.47	1.28	1.75	1.40	1.54	1.30	1.29	1.44	1.58	1.42	1.89	2.00
25	1.45	1.30	1.75	1.39	1.53	1.28	1.38	1.51	1.56	1.44	1.96	2.01
26	1.44	1.48	1.74	1.38	1.52	1.26	1.40	1.50	1.55	1.44	1.94	2.03
27	1.41	1.52	1.73	1.36	1.50	1.25	1.39	1.48	1.57	1.43	1.93	2.01
28	1.39	1.55	1.70	1.34	1.49	1.25	1.38	1.47	1.57	1.42	1.93	2.14
29	1.38	1.58	1.68	1.33	---	1.25	1.37	1.48	1.62	1.40	1.93	2.10
30	1.36	1.56	1.66	1.31	---	1.26	1.35	1.52	1.68	1.36	2.00	2.08
31	1.35	---	1.65	1.29	---	1.25	---	1.52	---	1.38	2.08	---
MEAN	1.64	1.35	1.61	1.45	1.36	1.41	1.13	1.34	1.51	1.49	1.64	2.07
MAX	2.05	1.58	1.77	1.64	1.55	1.56	1.40	1.52	1.68	1.66	2.08	2.14
MIN	1.35	1.22	1.45	1.29	1.20	1.25	.94	1.18	1.33	1.36	1.38	2.00

CAL YR 1977 MEAN 1.10 MAX 2.06 MIN -1.08
WTR YR 1978 MEAN 1.50 MAX 2.14 MIN .94

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290825 FLORIDA BAY AT FLAMINGO, FL,

LOCATION.--Lat 25°08'37", long 80°55'15", in SW¼ sec.4, T.61 S., R.34 E., Monroe County, Hydrologic Unit 03090202, in Everglades National Park on bulkhead of Everglades National Park Rangers' boatdock at Flamingo, on Flamingo-Coot Bay Canal, and 500 ft (152 m) upstream from mouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1960 to current year (gage heights). Published since October 1962. 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 Apr. 13, 1972, at site 300 ft (91 m) west, and at datum 0.48 ft (0.146 m) lower.

REMARKS.--Gage records water levels and tidal fluctuations in upper Florida Bay. The stage record published is the maximum and minimum tide event for each calendar day.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 11.36 ft (3.463 m) present datum Sept. 10, 1960 (from hurricane floodmark); minimum, -2.47 ft (-0.753 m) present datum Jan. 16, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 3.24 ft (0.988 m) June 20; minimum, -1.11 ft (0.338 m) Mar. 19.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
TIDAL HIGH VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.98	2.30	2.59	2.26	1.75	2.43	1.75	2.57	2.40	2.77	2.76	2.80
2	2.81	2.38	2.33	2.35	1.97	2.31	1.85	2.47	2.47	2.92	2.64	2.79
3	2.78	2.57	2.16	1.97	1.64	2.59	1.74	2.78	2.50	2.85	2.65	2.92
4	2.55	2.59	2.30	2.07	2.18	2.12	1.82	3.01	2.61	2.81	2.68	2.98
5	1.65	2.59	2.67	2.32	2.10	2.38	2.03	2.85	2.65	2.69	2.82	2.95
6	2.11	2.73	2.49	2.08	2.43	2.24	2.22	2.56	2.58	2.67	2.56	2.96
7	1.94	2.64	1.85	2.70	2.45	2.46	2.24	2.49	2.53	2.51	2.33	2.98
8	2.62	2.86	1.38	2.81	2.33	2.66	2.53	2.68	2.71	2.39	2.29	2.85
9	2.85	2.95	2.40	3.12	3.18	2.92	2.44	2.73	2.64	2.22	2.35	2.75
10	3.02	3.04	2.65	2.45	2.58	2.92	2.33	2.64	2.39	2.09	2.29	2.72
11	2.87	2.89	2.26	2.05	2.39	2.48	2.43	2.37	2.27	2.06	2.53	2.83
12	3.05	2.34	2.42	2.25	2.42	2.43	2.24	2.06	2.22	2.20	2.41	2.98
13	3.07	2.60	2.66	2.83	2.46	2.14	2.29	2.27	2.28	2.19	2.36	2.95
14	2.69	2.48	3.01	2.66	2.07	2.36	2.06	2.24	2.32	2.26	2.19	2.98
15	2.55	2.81	2.73	1.68	2.12	2.04	1.66	2.21	2.22	2.64	2.41	3.05
16	2.78	2.63	2.42	1.41	2.07	1.75	1.67	2.20	2.24	2.80	2.63	3.15
17	2.42	2.71	2.39	2.01	1.87	1.34	1.96	2.30	1.95	3.00	2.97	3.20
18	2.21	2.33	2.40	1.44	2.41	1.01	2.22	2.29	2.50	3.04	3.10	3.05
19	2.30	2.32	2.14	1.98	2.46	1.45	2.72	2.41	2.96	2.94	3.02	2.85
20	2.11	2.42	2.49	2.96	2.32	1.56	2.72	2.53	3.24	2.94	2.77	2.70
21	2.06	2.01	2.41	2.01	1.99	2.14	2.60	2.79	3.11	2.75	2.59	2.82
22	1.96	2.27	2.45	1.65	2.71	2.46	2.53	2.76	3.07	2.69	2.43	2.70
23	2.39	2.67	1.85	1.87	2.15	2.36	2.15	2.95	3.09	2.52	2.50	2.60
24	2.72	2.99	2.13	1.98	2.38	2.61	2.72	3.07	2.96	2.38	2.57	2.32
25	2.82	3.00	2.61	2.42	2.40	2.53	2.98	2.83	2.82	2.34	2.40	2.40
26	2.76	2.86	2.97	2.77	2.54	2.65	3.07	2.61	2.57	2.50	2.20	2.50
27	2.91	2.16	2.15	1.81	2.44	2.50	2.69	2.11	2.42	2.62	2.25	2.60
28	2.81	2.28	1.91	1.79	2.62	2.15	2.39	2.15	2.44	2.43	2.27	2.70
29	2.62	2.20	1.83	1.63	---	2.39	1.94	2.24	2.50	2.32	2.71	2.85
30	2.62	2.42	2.27	1.55	---	2.18	2.19	2.31	2.81	2.32	2.70	2.90
31	2.33	---	2.22	1.71	---	1.57	---	2.36	---	2.56	2.48	---
MEAN	2.56	2.57	2.34	2.15	2.30	2.23	2.27	2.51	2.58	2.56	2.54	2.83
MAX	3.07	3.04	3.01	3.12	3.18	2.92	3.07	3.07	3.24	3.04	3.10	3.20
MIN	1.65	2.01	1.38	1.41	1.64	1.01	1.66	2.06	1.95	2.06	2.19	2.32

CAL YR 1977 MEAN .66 MAX 3.07 MIN -1.00
WTR YR 1978 MEAN 2.45 MAX 3.24 MIN 1.01

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290825 FLORIDA BAY AT FLAMINGO, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
TIDAL LOW VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.69	.11	.31	.06	-.68	.06	-.72	.08	-.06	.17	.07	.26
2	.56	.40	.27	.29	-.61	-.14	-.56	.23	-.07	.19	-.07	.28
3	.65	.72	.10	.04	-.59	.18	-.47	.26	-.07	.12	.07	.54
4	.23	.89	.23	-.14	-.66	.31	-.59	.29	-.09	.03	.45	.37
5	-.13	.78	.41	-.40	-.74	-.26	-.47	-.08	.43	.47	.10	.52
6	.28	.73	.53	-.32	-.43	-.52	-.38	.21	-.05	-.15	.16	.65
7	.10	.72	-.29	-.10	-.40	-.16	-.42	-.23	-.06	-.14	.07	.58
8	.40	.61	-.61	-.03	-.38	-.04	-.10	-.28	-.07	-.16	.00	.49
9	.56	.37	-.22	.12	.12	-.19	-.26	-.13	.00	-.10	.12	.44
10	.69	.36	-.42	-.35	.00	.18	-.29	-.08	.05	-.15	.13	.41
11	.54	-.09	-.52	-.61	-.10	.01	-.30	-.09	.01	-.12	.29	.36
12	.47	-.32	-.41	-.09	-.05	-.18	-.19	-.38	.14	-.10	-.01	.51
13	.32	-.19	-.18	.16	.00	-.16	-.07	-.13	.06	.13	-.14	.28
14	.07	-.29	.24	.12	.16	-.28	-.01	.16	.11	.07	-.35	.17
15	-.02	.13	.20	-.20	-.19	.02	-.08	.42	.02	.06	-.42	.30
16	.08	.26	.23	-.44	.12	-.24	-.24	.31	-.21	.15	-.20	.32
17	-.10	.44	.38	-.29	-.16	-.13	-.11	.14	-.51	.17	-.02	.28
18	-.13	.23	.51	-.18	.09	-.73	-.16	-.24	-.23	-.01	.35	.30
19	.10	.27	.13	-.27	-.01	-1.11	.37	-.16	-.03	-.05	.12	.40
20	.05	.26	.03	.05	-.28	-.69	.26	-.19	.72	.30	.16	.46
21	-.07	.16	.18	-.60	-.50	-.21	.07	-.11	.05	-.07	.12	.45
22	-.29	.03	.08	-.70	-.11	-.16	-.25	.29	.09	-.10	.18	.50
23	.13	.21	-.46	-.69	-.50	-.15	-.16	-.21	.14	-.15	.26	.60
24	.24	.56	-.44	-.63	-.32	.05	-.06	-.07	.15	.03	.17	.75
25	.31	.29	.02	-.10	-.12	-.11	-.18	-.03	.26	-.01	.20	.90
26	.20	.15	-.09	-.13	-.03	.13	.07	-.10	.34	.18	.15	.85
27	.21	-.24	-.38	-.67	-.01	-.11	.31	-.18	.25	.50	.19	.90
28	.36	-.29	-.46	-.76	-.11	-.22	-.09	-.22	.26	.21	.06	.95
29	.14	-.21	-.51	-.71	---	-.42	-.15	-.02	.16	.14	.28	1.05
30	.04	.05	-.04	-.67	---	-.31	-.12	.08	.21	-.08	.19	.90
31	.00	---	.05	-.74	---	-.49	---	.00	---	.09	.11	---
MEAN	.22	.24	-.04	-.29	-.23	-.20	-.18	-.01	.07	.05	.09	.53
MAX	.69	.89	.53	.29	.16	.31	.37	.42	.72	.50	.45	1.05
MIN	-.29	-.32	-.61	-.76	-.74	-1.11	-.72	-.38	-.51	-.16	-.42	.17

CAL YR 1977	MEAN .06	MAX .97	MIN -1.00
WTR YR 1978	MEAN .02	MAX 1.05	MIN -1.11

254315080331500 NORTHEAST SHARK RIVER SLOUGH NO. 2 NEAR COOPERTOWN, FL (revised)

DRAINAGE AREA.--Indeterminate.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 6.87 ft (2.094 m) Oct. 1, 2, 1976; minimum, 5.11 ft (1.558 m) May 3, 4, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 6.80 ft (2.073 m) Sept. 14; minimum, 5.13 ft (1.564 m) May 17, 18.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.64	6.22	6.16	6.14	6.00	6.09	5.98	5.75	5.72	6.35	6.17	6.60
2	6.62	6.20	6.15	6.13	5.99	6.08	5.96	5.70	5.70	6.37	6.22	6.63
3	6.60	6.20	6.15	6.14	5.98	6.09	5.93	5.63	5.65	6.38	6.25	6.67
4	6.58	6.23	6.13	6.14	5.96	6.16	5.86	5.57	5.70	6.36	6.23	6.67
5	6.57	6.26	6.12	6.13	5.98	6.15	5.82	5.60	5.90	6.35	6.25	6.69
6	6.55	6.26	6.16	6.12	5.98	6.14	5.79	5.56	5.88	6.35	6.32	6.73
7	6.54	6.24	6.18	6.10	5.96	6.13	5.75	5.47	5.87	6.35	6.32	6.73
8	6.53	6.24	6.17	6.09	5.95	6.12	5.71	5.40	5.86	6.35	6.32	6.73
9	6.51	6.21	6.17	6.13	5.99	6.18	5.65	5.34	5.83	6.35	6.32	6.72
10	6.48	6.20	6.19	6.10	5.98	6.24	5.59	5.22	5.81	6.33	6.31	6.72
11	6.45	6.18	6.18	6.08	5.97	6.23	5.54	5.16	5.79	6.32	6.31	6.71
12	6.44	6.16	6.16	6.07	5.95	6.22	5.45	5.26	5.79	6.30	6.34	6.72
13	6.42	6.15	6.16	6.08	5.92	6.21	5.39	5.43	5.80	6.29	6.37	6.72
14	6.39	6.13	6.16	6.10	5.89	6.20	5.40	5.36	5.77	6.29	6.42	6.75
15	6.38	6.11	6.16	6.09	5.84	6.19	5.51	5.23	5.75	6.28	6.46	6.79
16	6.37	6.09	6.15	6.08	5.81	6.18	5.49	5.15	5.72	6.28	6.46	6.79
17	6.35	6.08	6.21	6.08	5.82	6.16	5.42	5.14	5.66	6.29	6.48	6.79
18	6.32	6.07	6.27	6.07	5.94	6.15	5.39	5.33	5.74	6.28	6.48	6.79
19	6.30	6.06	6.26	6.06	6.10	6.12	5.37	5.62	5.97	6.28	6.49	6.78
20	6.29	6.05	6.25	6.15	6.11	6.10	5.27	5.69	5.98	6.27	6.50	6.77
21	6.28	6.04	6.25	6.13	6.16	6.09	5.18	5.66	6.01	6.25	6.54	6.76
22	6.30	6.06	6.23	6.12	6.17	6.08	5.15	5.60	6.12	6.26	6.53	6.76
23	6.33	6.05	6.21	6.11	6.16	6.07	5.18	5.55	6.18	6.26	6.55	6.76
24	6.32	6.14	6.20	6.10	6.15	6.06	5.81	5.49	6.20	6.27	6.58	6.75
25	6.31	6.19	6.19	6.09	6.13	6.05	5.90	5.50	6.23	6.25	6.58	6.74
26	6.30	6.18	6.19	6.09	6.12	6.03	5.89	5.72	6.35	6.23	6.57	6.74
27	6.29	6.17	6.17	6.08	6.10	6.02	5.86	5.74	6.36	6.20	6.57	6.74
28	6.28	6.17	6.16	6.06	6.10	6.01	5.84	5.79	6.39	6.18	6.56	6.73
29	6.27	6.16	6.14	6.04	---	6.02	5.80	5.79	6.38	6.17	6.56	6.74
30	6.26	6.16	6.14	6.03	---	6.00	5.77	5.77	6.36	6.17	6.59	6.77
31	6.25	---	6.14	6.01	---	5.99	---	5.75	---	6.16	6.58	---
MEAN	6.40	6.16	6.18	6.09	6.01	6.11	5.62	5.52	5.95	6.28	6.43	6.73
MAX	6.64	6.26	6.27	6.15	6.17	6.24	5.98	5.79	6.39	6.38	6.59	6.79
MIN	6.25	6.04	6.12	6.01	5.81	5.99	5.15					

EVERGLADES AND SOUTHEASTERN COASTAL AREA

254130080380500 NORTHEAST SHARK RIVER SLOUGH NO. 1 NEAR COOPERTOWN, FL. (revised).

LOCATION.--Lat 25°41'30", long 80°17'06", in NW¼ sec.4, T.54 S., R.31 E., Dade County, Hydrologic Unit 03090202, 0.7 mi (1.1 km) west of southeast corner of Blue Shanty Canal, 0.8 mi (1.2 km) south of east-west section of Shanty Canal, and 4.7 mi (7.6 km) south-west of Coopertown.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1976 to current year (gage heights). Prior to October 1977, published as "Northeast Shark Valley Slough No. 1 near Coopertown".

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

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 6.91 ft (2.106 m) Oct. 1, 2, 1976; minimum 5.01 ft (1.527 m) May 3, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 6.78 ft (2.067 m) Sept. 29, 30; minimum, 5.41 ft (1.649 m) May 18.

REVISIONS.--Revised figures of gage heights for water year 1977, superseding those published in the report for 1977 are given herein.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.58	6.17	6.17	6.15	6.04	6.12	6.01	5.73	5.79	6.35	6.14	6.55
2	6.56	6.16	6.16	6.14	6.04	6.11	6.00	5.71	5.74	6.35	6.14	6.59
3	6.53	6.15	6.16	6.15	6.03	6.11	5.98	5.69	5.71	6.34	6.14	6.65
4	6.51	6.14	6.15	6.15	6.03	6.17	5.97	5.69	5.71	6.34	6.14	6.66
5	6.50	6.15	6.14	6.14	6.04	6.16	5.95	5.73	5.77	6.33	6.15	6.66
6	6.48	6.15	6.17	6.13	6.05	6.15	5.94	5.71	5.77	6.32	6.23	6.68
7	6.47	6.15	6.20	6.13	6.04	6.14	5.92	5.66	5.75	6.31	6.36	6.69
8	6.45	6.15	6.19	6.12	6.04	6.14	5.90	5.62	5.73	6.31	6.37	6.69
9	6.43	6.15	6.19	6.11	6.07	6.18	5.88	5.59	5.69	6.31	6.37	6.71
10	6.41	6.14	6.19	6.10	6.07	6.23	5.86	5.58	5.66	6.31	6.37	6.69
11	6.39	6.13	6.19	6.09	6.05	6.22	5.83	5.65	5.66	6.29	6.35	6.69
12	6.38	6.11	6.18	6.09	6.04	6.22	5.81	5.61	5.69	6.27	6.36	6.69
13	6.36	6.10	6.18	6.09	6.03	6.21	5.77	5.59	5.66	6.25	6.40	6.69
14	6.33	6.09	6.18	6.11	6.02	6.20	5.80	5.65	5.62	6.25	6.48	6.69
15	6.31	6.08	6.17	6.11	6.01	6.18	5.89	5.57	5.60	6.24	6.48	6.70
16	6.30	6.07	6.17	6.10	6.00	6.17	5.88	5.50	5.58	6.25	6.46	6.72
17	6.28	6.07	6.21	6.09	6.00	6.15	5.84	5.45	5.56	6.30	6.46	6.72
18	6.26	6.06	6.26	6.09	6.08	6.13	5.80	5.55	5.67	6.27	6.45	6.72
19	6.24	6.06	6.26	6.09	6.19	6.11	5.77	5.88	6.00	6.25	6.45	6.72
20	6.23	6.05	6.25	6.14	6.18	6.11	5.73	5.90	6.01	6.24	6.45	6.72
21	6.21	6.05	6.25	6.12	6.19	6.10	5.70	5.86	6.00	6.22	6.47	6.71
22	6.23	6.06	6.23	6.12	6.19	6.09	5.69	5.79	6.05	6.21	6.47	6.71
23	6.25	6.06	6.22	6.11	6.18	6.08	5.71	5.73	6.09	6.22	6.48	6.71
24	6.25	6.12	6.21	6.11	6.17	6.06	5.87	5.69	6.12	6.23	6.51	6.71
25	6.25	6.17	6.20	6.11	6.16	6.05	5.97	5.69	6.15	6.21	6.54	6.69
26	6.24	6.18	6.20	6.11	6.15	6.04	5.93	5.70	6.28	6.19	6.54	6.69
27	6.23	6.18	6.19	6.09	6.14	6.02	5.89	5.69	6.33	6.17	6.54	6.69
28	6.21	6.17	6.17	6.08	6.14	6.01	5.84	5.78	6.40	6.15	6.54	6.69
29	6.20	6.17	6.16	6.07	---	6.02	5.80	5.91	6.39	6.15	6.53	6.74
30	6.19	6.17	6.15	6.06	---	6.02	5.76	5.89	6.37	6.15	6.53	6.78
31	6.18	---	6.15	6.05	---	6.01	---	5.85	---	6.14	6.53	---
MEAN	6.34	6.12	6.19	6.11	6.08	6.12	5.86	5.70	5.89	6.26	6.40	6.69
MAX	6.58	6.18	6.26	6.15	6.19	6.23	6.01	5.91	6.40	6.35	6.54	6.78
MIN	6.18	6.05	6.14	6.05	6.00	6.01	5.69	5.45	5.56	6.14	6.14	6.55

CAL YR 1977 MEAN 6.04 MAX 6.69 MIN 5.01
WTR YR 1978 MEAN 6.15 MAX 6.78 MIN 5.45

EVERGLADES AND SOUTHEASTERN COASTAL AREA

253735080402100 LEVEE 67 EXTENDED CANAL AT SOUTH END NEAR COOPERTOWN, FL

LOCATION.--Lat 25°37'35", long 80°40'21", in SE¼ sec.22, T.55 S., R.36 E., Dade County, Hydrologic Unit 03090202, 2.7 mi (4.3 km) south of L-67 extention station, and 9.7 mi (15.6 km) southwest of Coopertown.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1976 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, 7.58 ft (2.310 m) Sept. 29, 1978; minimum, 6.10 ft (1.859 m) May 3, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 7.58 ft (2.310 m) Sept. 29; minimum, 6.55 ft (1.996 m) May 5.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.92	6.94	7.00	6.85	7.12	7.05	7.36	6.61	6.59	6.76	6.92	7.36
2	6.91	6.94	6.99	6.84	7.12	6.99	7.36	6.61	6.59	6.76	6.99	7.42
3	6.90	6.94	6.99	6.83	7.11	6.81	7.36	6.59	6.58	6.75	7.05	7.43
4	6.90	6.94	6.97	6.82	7.11	6.76	7.32	6.59	6.58	6.74	7.04	7.42
5	6.89	6.96	6.96	6.82	7.12	6.77	7.28	6.60	6.61	6.74	7.05	7.44
6	6.89	6.98	6.98	6.80	7.12	6.78	7.23	6.60	6.63	6.74	7.13	7.47
7	6.89	6.98	7.00	6.78	7.11	6.75	7.19	6.59	6.67	6.76	7.14	7.45
8	6.89	6.98	6.99	6.78	7.08	6.71	7.14	6.58	6.66	6.75	7.15	7.44
9	6.89	6.98	6.97	6.80	7.12	6.73	7.04	6.57	6.66	6.74	7.17	7.43
10	6.89	6.98	6.98	6.79	7.12	6.76	6.95	6.58	6.68	6.73	7.17	7.42
11	6.89	6.98	6.98	6.78	7.09	6.77	6.84	6.61	6.70	6.72	7.19	7.42
12	6.89	6.97	6.97	6.77	7.06	6.78	6.76	6.59	6.68	6.71	7.24	7.43
13	6.89	6.96	6.96	6.78	7.02	6.78	6.75	6.59	6.67	6.70	7.29	7.46
14	6.89	6.95	6.95	6.80	7.01	6.78	6.74	6.59	6.65	6.70	7.31	7.47
15	6.89	6.95	6.95	6.80	7.00	6.77	6.75	6.58	6.65	6.70	7.31	7.49
16	6.89	6.95	6.94	6.79	6.97	6.76	6.75	6.57	6.64	6.70	7.30	7.48
17	6.89	6.95	6.99	6.78	6.94	6.88	6.72	6.56	6.62	6.69	7.31	7.46
18	6.88	6.95	7.01	6.79	7.07	6.93	6.70	6.59	6.64	6.70	7.31	7.45
19	6.89	6.95	6.99	6.78	7.38	6.92	6.69	6.60	6.67	6.70	7.31	7.43
20	6.89	6.95	6.97	6.82	7.35	6.95	6.68	6.60	6.70	6.71	7.30	7.43
21	6.89	6.94	6.95	6.82	7.36	6.94	6.66	6.60	6.72	6.71	7.30	7.43
22	6.91	6.97	6.90	6.83	7.33	6.83	6.65	6.59	6.77	6.72	7.34	7.42
23	6.93	6.96	6.90	6.83	7.29	6.85	6.63	6.58	6.74	6.76	7.34	7.41
24	6.94	7.01	6.94	6.83	7.25	7.06	6.73	6.57	6.72	6.78	7.43	7.41
25	6.94	7.05	6.95	6.83	7.22	7.25	6.72	6.57	6.70	6.77	7.43	7.40
26	6.94	7.04	6.95	6.84	7.19	7.29	6.70	6.57	6.72	6.77	7.39	7.41
27	6.94	7.02	6.92	6.84	7.16	7.31	6.68	6.59	6.73	6.77	7.37	7.41
28	6.94	7.02	6.90	6.95	7.10	7.32	6.66	6.59	6.75	6.78	7.35	7.42
29	6.94	7.01	6.88	7.09	---	7.33	6.64	6.60	6.77	6.80	7.34	7.56
30	6.94	7.00	6.87	7.10	---	7.33	6.63	6.60	6.75	6.86	7.34	7.53
31	6.94	---	6.86	7.12	---	7.34	---	6.59	---	6.88	7.34	---
MEAN	6.91	6.97	6.95	6.84	7.14	6.94	6.88	6.59	6.68	6.75	7.25	7.44
MAX	6.94	7.05	7.01	7.12	7.38	7.34	7.36	6.61	6.77	6.88	7.43	7.56
MIN	6.88	6.94	6.86	6.77	6.94	6.71	6.63	6.56	6.58	6.69	6.92	7.36

CAL YR 1977	MEAN 6.68	MAX 7.07	MIN 6.10
WTR YR 1978	MEAN 6.94	MAX 7.56	MIN 6.56

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02290827 LEVEE 67 EXTENDED CANAL NEAR RICHMOND HEIGHTS, FL

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June 1971 to current year (gage heights).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Dade County bench mark).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.90 ft (2.713 m) Aug. 29, 1974; minimum, 5.81 ft (1.771 m) May 3, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 7.85 ft (2.393 m) estimated, Sept. 30; minimum, 6.37 ft (1.942 m) May 17, 26.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.97	7.10	7.13	6.90	6.83	6.76	7.14	6.49	6.50	6.74	7.12	7.68
2	6.97	7.09	7.12	6.90	6.82	6.74	7.11	6.49	6.48	6.72	7.20	7.70
3	6.97	7.09	7.11	6.91	6.81	6.72	7.08	6.47	6.46	6.72	7.25	7.72
4	6.95	7.10	7.10	6.90	6.80	6.80	7.04	6.46	6.46	6.75	7.30	7.75
5	6.95	7.14	7.09	6.89	6.80	6.78	7.00	6.48	6.50	6.75	7.34	7.76
6	6.96	7.16	7.11	6.88	6.78	6.76	6.96	6.47	6.54	6.76	7.38	7.78
7	6.97	7.16	7.13	6.88	6.77	6.74	6.92	6.46	6.57	6.76	7.42	7.80
8	6.98	7.16	7.11	6.86	6.76	6.72	6.88	6.46	6.59	6.78	7.44	7.78
9	6.99	7.15	7.10	6.87	6.78	6.78	6.85	6.46	6.56	6.78	7.45	7.76
10	7.00	7.15	7.11	6.87	6.78	6.83	6.81	6.45	6.55	6.76	7.46	7.76
11	7.01	7.14	7.11	6.86	6.76	6.83	6.77	6.44	6.60	6.76	7.48	7.77
12	7.02	7.12	7.09	6.86	6.75	6.83	6.74	6.44	6.59	6.77	7.55	7.78
13	7.02	7.11	7.08	6.87	6.74	6.82	6.70	6.43	6.57	6.77	7.60	7.78
14	7.02	7.11	7.07	6.90	6.73	6.80	6.69	6.43	6.56	6.76	7.62	7.76
15	7.02	7.10	7.05	6.90	6.72	6.81	6.67	6.42	6.56	6.76	7.64	7.76
16	7.02	7.10	7.03	6.90	6.71	6.82	6.66	6.40	6.57	6.76	7.64	7.75
17	7.02	7.10	7.07	6.90	6.72	6.87	6.63	6.38	6.58	6.75	7.65	7.75
18	7.03	7.10	7.09	6.90	6.76	6.90	6.61	6.42	6.60	6.75	7.66	7.75
19	7.03	7.10	7.07	6.89	6.86	6.94	6.59	6.47	6.61	6.75	7.66	7.75
20	7.04	7.09	7.04	6.95	6.86	6.99	6.57	6.48	6.60	6.76	7.65	7.75
21	7.04	7.09	7.02	6.96	6.87	7.03	6.55	6.46	6.60	6.76	7.65	7.74
22	7.06	7.11	7.01	6.97	6.87	7.07	6.53	6.44	6.60	6.77	7.66	7.74
23	7.09	7.10	6.98	6.97	6.85	7.10	6.51	6.43	6.61	6.76	7.65	7.73
24	7.09	7.16	6.97	6.97	6.84	7.11	6.60	6.41	6.62	6.76	7.65	7.75
25	7.10	7.20	6.96	6.95	6.82	7.12	6.62	6.40	6.63	6.76	7.64	7.75
26	7.10	7.19	6.95	6.96	6.81	7.14	6.60	6.42	6.65	6.77	7.64	7.76
27	7.11	7.17	6.94	6.95	6.79	7.16	6.57	6.50	6.68	6.78	7.64	7.82
28	7.10	7.16	6.92	6.94	6.77	7.17	6.55	6.53	6.70	6.80	7.65	7.85
29	7.10	7.15	6.91	6.91	---	7.18	6.53	6.55	6.72	6.85	7.65	7.82
30	7.10	7.14	6.90	6.86	---	7.18	6.51	6.53	6.74	6.95	7.65	7.85
31	7.10	---	6.90	6.85	---	7.16	---	6.51	---	7.05	7.66	---
MEAN	7.03	7.13	7.04	6.91	6.79	6.92	6.73	6.46	6.59	6.78	7.54	7.76
MAX	7.11	7.20	7.13	6.97	6.87	7.18	7.14	6.55	6.74	7.05	7.66	7.85
MIN	6.95	7.09	6.90	6.85	6.71	6.72	6.51					

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290828 EVERGLADES P-36 NEAR HOMESTEAD, FL

LOCATION.--Lat 25°32'30", long 80°47'00", in NE¼ sec.1, T.57 S., R.35 E., Dade County, Hydrologic Unit 03090202, in the Everglades, 15 mi (24 km) south of the 40-mile bend of U.S. Highway 41, and 20 mi (32 km) northwest of Homestead.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1968 to current year (gage heights).

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

REMARKS.--Elevation of the land surface is about 2.8 ft (0.85 m).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 4.91 ft (1.497 m) Oct. 25-28, 1969; minimum, 0.79 ft (0.241 m) May 14, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.20 ft (1.280 m) estimated, Sept. 29; minimum, 3.07 ft (0.936 m) Aug. 9.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.73	3.44	3.65	3.54	3.39	3.48	3.31	3.32	3.16	3.47	3.42	4.08
2	3.70	3.44	3.64	3.56	3.39	3.47	3.30	3.31	3.15	3.47	3.42	4.07
3	3.67	3.44	3.63	3.57	3.39	3.47	3.29	3.29	3.14	3.48	3.42	4.07
4	3.64	3.44	3.62	3.56	3.38	3.55	3.28	3.28	3.13	3.49	3.42	4.08
5	3.60	3.51	3.61	3.55	3.39	3.53	3.27	3.31	3.13	3.54	3.44	4.10
6	3.58	3.53	3.63	3.54	3.39	3.52	3.27	3.30	3.14	3.57	3.45	4.08
7	3.58	3.52	3.66	3.54	3.38	3.51	3.27	3.28	3.30	3.57	3.45	4.07
8	3.56	3.52	3.64	3.53	3.38	3.50	3.28	3.27	3.31	3.57	3.46	4.08
9	3.54	3.52	3.64	3.53	3.40	3.52	3.29	3.25	3.26	3.56	3.49	4.09
10	3.53	3.52	3.67	3.52	3.40	3.55	3.29	3.24	3.25	3.56	3.60	4.10
11	3.51	3.52	3.65	3.50	3.40	3.53	3.30	3.24	3.25	3.55	3.72	4.12
12	3.50	3.51	3.63	3.49	3.40	3.53	3.30	3.23	3.27	3.54	3.80	4.13
13	3.48	3.50	3.62	3.50	3.40	3.52	3.30	3.22	3.29	3.54	3.82	4.14
14	3.46	3.50	3.61	3.52	3.38	3.51	3.30	3.21	3.26	3.54	3.85	4.10
15	3.45	3.50	3.60	3.50	3.38	3.50	3.41	3.19	3.25	3.52	3.90	4.10
16	3.43	3.49	3.60	3.49	3.37	3.48	3.48	3.17	3.23	3.51	4.00	4.10
17	3.42	3.49	3.65	3.48	3.40	3.47	3.42	3.15	3.22	3.52	4.00	4.08
18	3.41	3.49	3.69	3.48	3.46	3.44	3.38	3.15	3.26	3.55	3.98	4.06
19	3.41	3.49	3.68	3.47	3.60	3.42	3.36	3.16	3.31	3.52	3.95	4.05
20	3.40	3.49	3.68	3.48	3.59	3.41	3.35	3.15	3.30	3.50	3.93	4.05
21	3.39	3.49	3.67	3.47	3.59	3.40	3.33	3.14	3.35	3.48	3.92	4.04
22	3.40	3.51	3.66	3.46	3.59	3.40	3.32	3.12	3.38	3.46	3.95	4.04
23	3.42	3.51	3.64	3.46	3.57	3.38	3.31	3.11	3.40	3.46	4.05	4.05
24	3.42	3.58	3.63	3.45	3.55	3.37	3.40	3.10	3.41	3.45	4.06	4.06
25	3.42	3.66	3.62	3.45	3.53	3.37	3.41	3.10	3.43	3.44	4.05	4.10
26	3.44	3.67	3.61	3.44	3.52	3.38	3.39	3.11	3.50	3.44	4.05	4.15
27	3.44	3.67	3.60	3.43	3.51	3.35	3.37	3.13	3.48	3.43	4.06	4.18
28	3.44	3.67	3.58	3.42	3.50	3.34	3.36	3.14	3.46	3.43	4.09	4.19
29	3.44	3.67	3.57	3.41	---	3.34	3.34	3.17	3.47	3.43	4.08	4.20
30	3.44	3.66	3.56	3.40	---	3.33	3.33	3.19	3.48	3.42	4.07	4.18
31	3.44	---	3.55	3.40	---	3.31	---	3.17	---	3.42	4.07	---
MEAN	3.49	3.53	3.63	3.49	3.45	3.45	3.33	3.20	3.30	3.50	3.81	4.10
MAX	3.73	3.67	3.69	3.57	3.60	3.55	3.48	3.32	3.50	3.57	4.09	4.20
MIN	3.39	3.44	3.55	3.40	3.37	3.31	3.27	3.10	3.13	3.42	3.42	4.04

CAL YR 1977 MEAN 3.27 MAX 3.99 MIN 2.11
WTR YR 1978 MEAN 3.52 MAX 4.20 MIN 3.10

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290829 EVERGLADES 204-NP NEAR HOMESTEAD, FL

LOCATION.--Lat 25°30'12", long 80°49'13", in NE¼ sec.1, T.57 S., R.35 E., Dade County, Hydrologic Unit 03090202, in Everglades National Park between Park markers 14 and 15, 16 mi (25.7 km) south of U.S. Highway 41, 21 mi (33.8 km) west of Homestead, and 38 mi (61.1 km) west of Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1973 to current year (gage heights). Prior to October 1, 1975 published as Everglades P-145.

GAGE.--Water-stage recorder and Data Collection Platform (DCP). Datum of gage is National Geodetic Vertical Datum of 1929 (datum furnished by the Corps of Engineers).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 3.76 ft (1.146 m) Sept. 28, 1978; minimum, 0.59 ft (0.180 m) May 16, 1974 and May 6, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 3.76 ft (1.146 m) Sept. 28; minimum, 2.54 ft (0.774 m) June 6, 7.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.25	2.80	3.02	2.93	2.78	2.88	2.74	2.72	2.57	2.89	2.82	3.54
2	3.21	2.79	3.02	2.94	2.78	2.87	2.72	2.71	2.58	2.92	2.84	3.55
3	3.16	2.80	3.01	2.95	2.77	2.88	2.71	2.70	2.57	2.91	2.86	3.57
4	3.12	2.81	3.00	2.95	2.77	2.96	2.69	2.69	2.56	2.89	2.88	3.58
5	3.08	2.88	2.99	2.94	2.78	2.93	2.68	2.72	2.56	2.88	2.90	3.58
6	3.05	2.88	3.02	2.93	2.78	2.92	2.67	2.72	2.54	2.89	2.89	3.57
7	3.04	2.87	3.04	2.94	2.77	2.91	2.66	2.70	2.65	2.92	2.89	3.57
8	3.01	2.87	3.02	2.93	2.77	2.90	2.65	2.69	2.82	2.97	2.89	3.57
9	2.99	2.87	3.02	2.92	2.79	2.93	2.64	2.67	2.78	3.00	2.89	3.57
10	2.96	2.87	3.06	2.91	2.79	2.95	2.63	2.66	2.77	2.97	2.90	3.58
11	2.94	2.86	3.04	2.90	2.78	2.94	2.63	2.66	2.80	2.96	2.96	3.57
12	2.92	2.85	3.02	2.89	2.77	2.93	2.62	2.67	2.77	2.97	3.13	3.60
13	2.89	2.85	3.01	2.90	2.77	2.92	2.62	2.66	2.77	3.01	3.24	3.64
14	2.87	2.86	3.01	2.92	2.76	2.91	2.62	2.65	2.73	2.99	3.29	3.61
15	2.85	2.86	3.00	2.90	2.76	2.89	2.72	2.64	2.71	2.97	3.29	3.60
16	2.84	2.86	2.99	2.89	2.75	2.87	2.92	2.62	2.69	2.95	3.31	3.60
17	2.82	2.86	3.05	2.88	2.79	2.82	2.89	2.60	2.67	2.93	3.40	3.60
18	2.81	2.86	3.09	2.87	2.88	2.78	2.84	2.60	2.69	2.97	3.51	3.58
19	2.80	2.87	3.07	2.86	3.00	2.75	2.80	2.64	2.77	2.96	3.45	3.56
20	2.79	2.86	3.06	2.88	2.98	2.74	2.77	2.65	2.80	2.94	3.43	3.57
21	2.78	2.86	3.05	2.87	3.00	2.73	2.75	2.63	2.84	2.93	3.40	3.58
22	2.80	2.86	3.03	2.86	2.99	2.74	2.73	2.62	2.84	2.91	3.39	3.57
23	2.81	2.86	3.02	2.85	2.97	2.75	2.72	2.60	2.84	2.90	3.37	3.55
24	2.81	2.95	3.01	2.85	2.95	2.75	2.81	2.60	2.83	2.88	3.47	3.55
25	2.80	3.00	3.00	2.84	2.94	2.76	2.82	2.61	2.82	2.86	3.56	3.58
26	2.80	3.01	3.00	2.84	2.92	2.77	2.80	2.60	2.89	2.85	3.54	3.60
27	2.80	3.01	2.98	2.83	2.91	2.78	2.78	2.59	2.89	2.83	3.52	3.58
28	2.80	3.02	2.97	2.82	2.89	2.78	2.76	2.59	2.88	2.82	3.51	3.58
29	2.80	3.02	2.95	2.81	---	2.76	2.75	2.60	2.89	2.82	3.54	3.70
30	2.80	3.02	2.95	2.80	---	2.76	2.73	2.60	2.89	2.82	3.59	3.63
31	2.80	---	2.94	2.79	---	2.75	---	2.58	---	2.82	3.57	---
MEAN	2.91	2.89	3.01	2.88	2.84	2.84	2.73	2.64	2.75	2.91	3.23	3.58
MAX	3.25	3.02	3.09	2.95	3.00	2.96	2.92	2.72	2.89	3.01	3.59	3.70
MIN	2.78	2.79	2.94	2.79	2.75	2.73	2.62	2.58	2.54	2.82	2.82	3.54

CAL YR 1977 MEAN 2.71 MAX 3.46 MIN 1.38
WTR YR 1978 MEAN 2.94 MAX 3.70 MIN 2.54

02290830 EVERGLADES P-35 NEAR HOMESTEAD, FL

DRAINAGE AREA.--Indeterminate.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Dade County bench mark). Prior to Apr. 6, 1955, at datum 1.09 ft (0.332 m) lower and Apr. 6, 1955, to Sept. 30, 1963, at datum 0.46 ft (0.140 m) lower.

REMARKS.--Elevation of the land surface is about 0.9 ft (0.27 m). Medium and low stage affected by tide.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 3.47 ft (1.058 m) present datum Sept. 10, 1960, resulting from hurricane; minimum, -0.27 ft (-0.082 m) Apr. 18, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 2.61 ft (0.796 m) Sept. 16; minimum, 0.32 ft (0.098 m) Jan. 31.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.35	1.27	1.40	1.62	.50	1.47	.58	1.31	1.30	1.65	1.46	2.46
2	2.31	1.32	1.44	1.66	.65	1.44	.61	1.34	1.36	1.63	1.46	2.44
3	2.27	1.39	1.40	1.69	.73	1.37	.67	1.34	1.34	1.59	1.50	2.42
4	2.20	1.45	1.34	1.70	.70	1.30	.58	1.37	1.32	1.58	1.54	2.41
5	2.03	1.54	1.39	1.68	.81	1.33	.59	1.48	1.30	1.58	1.54	2.40
6	1.94	1.56	1.55	1.66	.98	1.36	.68	1.36	1.28	1.56	1.55	2.40
7	1.85	1.57	1.59	1.65	.95	1.38	.72	1.25	1.29	1.52	1.56	2.42
8	1.79	1.59	1.37	1.63	1.26	1.42	.75	1.21	1.30	1.44	1.55	2.42
9	1.80	1.60	1.36	1.62	1.34	1.54	.86	1.24	1.29	1.40	1.50	2.44
10	1.82	1.62	1.48	1.61	1.27	1.69	.87	1.25	1.29	1.42	1.45	2.50
11	1.82	1.61	1.37	1.59	1.21	1.68	.82	1.29	1.30	1.48	1.47	2.48
12	1.82	1.44	1.33	1.58	1.22	1.59	.83	1.30	1.41	1.50	1.52	2.47
13	1.81	1.35	1.37	1.58	1.20	1.48	.86	1.26	1.53	1.53	1.60	2.46
14	1.75	1.31	1.48	1.57	1.04	1.38	.92	1.29	1.45	1.56	1.64	2.46
15	1.66	1.32	1.56	1.54	1.02	1.33	1.06	1.28	1.37	1.60	1.67	2.48
16	1.62	1.34	1.54	1.14	1.13	1.27	1.16	1.25	1.27	1.61	1.77	2.55
17	1.54	1.41	1.64	1.08	1.29	1.30	1.14	1.18	1.06	1.58	1.97	2.56
18	1.40	1.39	1.75	1.04	1.64	1.28	1.12	1.15	1.15	1.54	2.07	2.50
19	1.34	1.32	1.70	1.32	1.62	1.27	1.28	1.18	1.42	1.50	2.13	2.46
20	1.32	1.28	1.62	1.21	1.58	1.27	1.36	1.42	1.62	1.48	2.15	2.44
21	1.27	1.27	1.63	.98	1.57	1.27	1.35	1.37	1.62	1.48	2.16	2.42
22	1.23	1.25	1.61	.87	1.50	1.27	1.31	1.37	1.62	1.42	2.16	2.39
23	1.18	1.28	1.41	.86	1.44	1.27	1.22	1.41	1.58	1.38	2.17	2.36
24	1.31	1.47	1.35	1.02	1.44	1.28	1.47	1.48	1.52	1.35	2.33	2.32
25	1.39	1.61	1.43	1.25	1.45	1.28	1.58	1.49	1.44	1.39	2.42	2.32
26	1.47	1.63	1.56	1.07	1.44	1.29	1.62	1.47	1.42	1.37	2.39	2.33
27	1.51	1.51	1.45	.76	1.45	1.29	1.63	1.37	1.58	1.33	2.37	2.34
28	1.50	1.37	1.24	.66	1.46	1.27	1.51	1.27	1.66	1.30	2.35	2.45
29	1.48	1.32	1.27	.61	---	1.13	1.36	1.24	1.65	1.31	2.34	2.51
30	1.43	1.34	1.36	.58	---	1.05	1.29	1.25	1.65	1.38	2.42	2.47
31	1.34	---	1.44	.53	---	.85	---	1.28	---	1.43	2.47	---
MEAN	1.66	1.42	1.47	1.27	1.21	1.34	1.06	1.31	1.41	1.48	1.89	2.44
MAX	2.35	1.63	1.75	1.70	1.64	1.69	1.63	1.49	1.66	1.65	2.47	2.56
MIN	1.18	1.25	1.24	.53	.50	.85	.58	1.15	1.06	1.30	1.45	2.32
CAL YR 1977	MEAN 1.27		MAX 2.38	MIN .04								
WTR YR 1978	MEAN 1.50		MAX 2.56	MIN .50								

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290832 EVERGLADES 203-NP, NEAR HOMESTEAD, FL

LOCATION.--Lat 25°37'25", long 80°44'22", in SW¼ sec.25, T.55 S., R.36 E., Dade County, Hydrologic Unit 03090202, in alligator hole in Everglades National Park at Park marker 5, 8 mi (12.9 km) south of U.S. Highway 41, 20 mi (32.2 km) northwest of Homestead, and 33 mi (53.1 km) west of Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1973 to current year (gage heights).

GAGE.--Water stage-recorder and Data Collection Platform (DCP). Formerly published as Everglades P-5S near Homestead. Datum of gage is National Geodetic Vertical Datum of 1929 (datum furnished by the Corps of Engineers).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 6.82 ft (2.079 m) Sept. 30, 1978; minimum, 3.25 ft (0.991 m) May 19, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 6.82 ft (2.079 m) Sept. 30; minimum, 5.36 ft (1.634 m) June 1, 2, 4.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.03	6.11	6.19	5.98	5.90	5.90	6.07	5.69	5.37	5.87	6.07	6.57
2	6.01	6.11	6.17	5.97	5.89	5.89	6.07	5.67	5.37	5.86	6.15	6.64
3	6.00	6.11	6.16	5.97	5.89	5.87	6.06	5.65	5.38	5.84	6.23	6.66
4	5.99	6.11	6.15	5.96	5.88	5.95	6.05	5.63	5.38	5.83	6.26	6.65
5	5.98	6.18	6.14	5.96	5.88	5.93	6.03	5.64	5.42	5.84	6.28	6.65
6	5.98	6.19	6.16	5.95	5.88	5.91	6.01	5.65	5.54	5.89	6.34	6.68
7	5.99	6.18	6.18	5.94	5.87	5.89	6.00	5.64	5.65	5.89	6.39	6.67
8	5.99	6.17	6.16	5.93	5.86	5.88	5.98	5.61	5.69	5.87	6.39	6.66
9	5.99	6.17	6.16	5.93	5.89	5.90	5.96	5.59	5.70	5.86	6.40	6.68
10	6.00	6.17	6.16	5.92	5.88	5.96	5.93	5.58	5.73	5.84	6.41	6.67
11	6.00	6.16	6.15	5.91	5.87	5.94	5.91	5.59	5.75	5.81	6.54	6.65
12	6.00	6.15	6.14	5.90	5.86	5.93	5.89	5.57	5.73	5.79	6.64	6.64
13	6.02	6.14	6.13	5.91	5.85	5.92	5.89	5.56	5.72	5.77	6.60	6.68
14	6.01	6.14	6.12	5.93	5.84	5.90	5.88	5.55	5.70	5.78	6.59	6.69
15	6.01	6.13	6.12	5.92	5.82	5.89	5.86	5.53	5.69	5.82	6.57	6.69
16	6.01	6.13	6.11	5.91	5.81	5.88	5.85	5.51	5.67	5.84	6.56	6.68
17	6.02	6.13	6.18	5.90	5.81	5.86	5.83	5.49	5.65	5.88	6.60	6.67
18	6.01	6.13	6.21	5.90	5.87	5.84	5.82	5.50	5.67	5.91	6.63	6.65
19	6.02	6.13	6.18	5.90	6.02	5.82	5.80	5.52	5.69	5.92	6.60	6.64
20	6.02	6.13	6.16	5.94	6.00	5.81	5.78	5.52	5.79	5.92	6.58	6.63
21	6.03	6.12	6.14	5.94	6.00	5.81	5.76	5.50	5.85	5.92	6.56	6.63
22	6.05	6.15	6.11	5.94	5.99	5.81	5.74	5.49	5.86	5.92	6.58	6.62
23	6.08	6.15	6.09	5.94	5.97	5.83	5.73	5.47	5.85	5.93	6.59	6.61
24	6.08	6.22	6.08	5.94	5.96	5.84	5.81	5.45	5.84	5.94	6.66	6.60
25	6.09	6.26	6.07	5.94	5.95	5.88	5.82	5.44	5.82	5.93	6.69	6.59
26	6.10	6.24	6.06	5.95	5.94	5.91	5.80	5.43	5.83	5.92	6.66	6.59
27	6.11	6.22	6.04	5.94	5.93	5.94	5.77	5.43	5.85	5.91	6.64	6.59
28	6.11	6.21	6.02	5.93	5.91	5.98	5.75	5.42	5.89	5.91	6.62	6.61
29	6.11	6.20	6.01	5.92	---	6.01	5.72	5.41	5.91	5.92	6.60	6.80
30	6.11	6.20	6.00	5.91	---	6.03	5.70	5.40	5.89	5.95	6.59	6.77
31	6.11	---	5.99	5.91	---	6.05	---	5.38	---	5.99	6.57	---
MEAN	6.03	6.16	6.12	5.93	5.90	5.90	5.88	5.53	5.70	5.88	6.50	6.65
MAX	6.11	6.26	6.21	5.98	6.02	6.05	6.07	5.69	5.91	5.99	6.69	6.80
MIN	5.98	6.11	5.99	5.90	5.81	5.81	5.70	5.38	5.37	5.77	6.07	6.57

CAL YR 1977 MEAN 5.70 MAX 6.26 MIN 4.83
WTR YR 1978 MEAN 6.02 MAX 6.80 MIN 5.37

SOUTHERN FLORIDA

EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290861 EVERGLADES 201 NP NEAR MIAMI, FL

LOCATION.--Lat 25°43'05", long 80°43'33", in SW¼ sec.34, T.54 S., R.36 E., Dade County, Hydrologic Unit 03090202, 3 mi (5 km) south of S-12-C on U.S. Highway 41, and 34 mi (55 km) west of Dade County courthouse in Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1974 to current year (gage heights).

GAGE.--Water-stage recorder and Data Collection Platform (DCP). Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 1976 at datum 3.52 ft (1.073 m) higher.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.24 ft (2.512 m) Sept. 15, 23, 1978; minimum, 4.60 ft (1.402 m), present datum, May 6, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 8.24 ft (2.512 m) Sept. 15, 23; minimum, 6.53 ft (1.990 m) May 26.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.45	7.57	7.56	7.26	7.19	7.11	7.44	6.93	6.76	6.97	7.59	8.11
2	7.46	7.57	7.55	7.25	7.18	7.10	7.39	6.91	6.74	7.00	7.63	8.12
3	7.48	7.57	7.54	7.26	7.17	7.12	7.33	6.89	6.70	7.00	7.62	8.15
4	7.48	7.58	7.53	7.26	7.17	7.19	7.28	6.88	6.66	7.05	7.66	8.15
5	7.48	7.64	7.52	7.26	7.18	7.18	7.23	6.89	6.78	7.06	7.74	8.17
6	7.49	7.64	7.55	7.25	7.18	7.16	7.20	6.88	6.86	7.03	7.83	8.20
7	7.50	7.62	7.56	7.25	7.17	7.15	7.17	6.85	6.87	7.06	7.85	8.20
8	7.50	7.62	7.54	7.25	7.18	7.13	7.12	6.83	6.88	7.06	7.91	8.19
9	7.51	7.61	7.53	7.27	7.21	7.21	7.10	6.80	6.90	7.03	7.95	8.21
10	7.52	7.60	7.55	7.25	7.21	7.29	7.07	6.84	6.96	7.00	7.99	8.20
11	7.52	7.59	7.52	7.24	7.20	7.26	7.05	6.87	6.95	6.98	8.04	8.20
12	7.52	7.58	7.49	7.24	7.19	7.23	7.04	6.86	6.92	6.97	8.05	8.21
13	7.53	7.57	7.46	7.27	7.18	7.20	7.00	6.85	6.88	6.95	8.06	8.21
14	7.52	7.57	7.45	7.32	7.18	7.17	6.99	6.83	6.86	7.17	8.05	8.22
15	7.52	7.57	7.43	7.31	7.17	7.26	6.98	6.80	6.84	7.18	8.04	8.23
16	7.53	7.57	7.42	7.29	7.17	7.44	6.97	6.77	6.82	7.21	8.05	8.22
17	7.53	7.56	7.45	7.28	7.17	7.50	6.96	6.74	6.80	7.16	8.04	8.21
18	7.53	7.55	7.47	7.27	7.22	7.52	6.95	6.76	6.99	7.17	8.04	8.20
19	7.53	7.55	7.44	7.27	7.32	7.53	6.95	6.79	7.07	7.16	8.03	8.19
20	7.54	7.54	7.41	7.39	7.29	7.55	6.93	6.78	7.05	7.18	8.03	8.17
21	7.54	7.53	7.40	7.37	7.28	7.56	6.91	6.75	7.06	7.26	8.04	8.17
22	7.56	7.54	7.37	7.34	7.26	7.57	6.89	6.72	7.04	7.32	8.05	8.18
23	7.58	7.54	7.35	7.32	7.23	7.57	6.88	6.68	7.04	7.36	8.06	8.21
24	7.58	7.61	7.33	7.30	7.20	7.57	6.96	6.63	7.01	7.36	8.07	8.18
25	7.58	7.64	7.32	7.29	7.18	7.58	7.00	6.58	7.00	7.36	8.08	8.19
26	7.59	7.62	7.31	7.28	7.16	7.58	7.00	6.66	6.99	7.36	8.09	8.18
27	7.58	7.59	7.29	7.26	7.14	7.58	6.98	6.73	6.97	7.38	8.11	8.12
28	7.58	7.58	7.27	7.25	7.13	7.58	6.97	6.80	6.96	7.51	8.11	8.08
29	7.58	7.57	7.26	7.23	---	7.57	6.96	6.81	6.96	7.70	8.10	8.14
30	7.58	7.57	7.26	7.22	---	7.53	6.94	6.80	6.96	7.62	8.10	8.13
31	7.58	---	7.26	7.20	---	7.48	---	6.79	---	7.60	8.10	---
MEAN	7.53	7.58	7.43	7.27	7.20	7.37	7.05	6.80	6.91	7.20	7.97	8.18
MAX	7.59	7.64	7.56	7.39	7.32	7.58	7.44	6.93	7.07	7.70	8.11	8.23
MIN	7.45	7.53	7.26	7.20	7.13	7.10	6.88	6.58	6.66	6.95	7.59	8.08

CAL YR 1977 MEAN 7.02 MAX 7.64 MIN 4.66
WTR YR 1978 MEAN 7.38 MAX 8.23 MIN 6.58

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

02290862 EVERGLADES 202 NP NEAR MIAMI, FL

LOCATION.--Lat 25°39'40", long 80°42'45", in NW¼ sec.4, T.56 S., R.36 E., Dade County, Hydrologic Unit 03090202, 9 mi (14 km) south of S-12-C on U.S. Highway 41, and 36 mi (58 km) west of Dade County Courthouse in Miami.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1975 to current year (gage heights).

GAGE.--Water-stage recorder and Data Collection Platform (DCP). Datum of gage is National Geodetic Vertical Datum of 1929. Prior to October 1976, at datum 2.85 ft (0.869 m) higher.

EXTREMES FOR PERIOD OF RECORD.--Maximum 7.37 ft (2.246 m) Sept. 28, 29, 1978; minimum, 5.01 ft (1.527 m) present datum.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 7.37 ft (2.246 m) Sept. 28, 29; minimum, 5.81 (1.771 m) May 18.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.44	6.64	6.67	6.40	6.33	6.26	6.59	5.96	5.96	6.21	6.69	7.14
2	6.44	6.63	6.66	6.39	6.32	6.24	6.57	5.94	5.96	6.19	6.75	7.17
3	6.46	6.63	6.65	6.39	6.31	6.24	6.54	5.92	5.95	6.17	6.78	7.20
4	6.47	6.64	6.63	6.38	6.30	6.30	6.51	5.91	5.93	6.15	6.76	7.20
5	6.47	6.70	6.62	6.37	6.29	6.27	6.48	5.92	6.01	6.14	6.78	7.23
6	6.48	6.71	6.64	6.37	6.28	6.25	6.44	5.91	6.13	6.13	6.84	7.28
7	6.50	6.70	6.66	6.36	6.27	6.24	6.41	5.89	6.17	6.13	6.91	7.26
8	6.50	6.70	6.65	6.36	6.26	6.22	6.38	5.88	6.15	6.12	6.93	7.24
9	6.51	6.70	6.64	6.36	6.28	6.26	6.35	5.86	6.11	6.13	6.97	7.25
10	6.52	6.69	6.64	6.35	6.27	6.31	6.31	5.89	6.09	6.12	6.99	7.25
11	6.52	6.68	6.64	6.34	6.25	6.30	6.28	5.95	6.08	6.11	7.06	7.23
12	6.53	6.66	6.63	6.33	6.24	6.30	6.25	5.92	6.07	6.10	7.14	7.26
13	6.54	6.65	6.61	6.34	6.23	6.29	6.22	5.90	6.05	6.10	7.15	7.28
14	6.54	6.65	6.60	6.36	6.22	6.28	6.20	5.89	6.02	6.12	7.15	7.28
15	6.54	6.64	6.58	6.36	6.21	6.27	6.20	5.87	6.01	6.20	7.15	7.27
16	6.54	6.64	6.57	6.35	6.20	6.25	6.20	5.85	6.00	6.23	7.14	7.27
17	6.55	6.64	6.60	6.35	6.20	6.24	6.16	5.83	5.99	6.28	7.15	7.26
18	6.55	6.64	6.63	6.35	6.26	6.23	6.13	5.83	6.03	6.27	7.15	7.24
19	6.55	6.64	6.60	6.35	6.35	6.26	6.10	5.86	6.12	6.27	7.15	7.22
20	6.56	6.63	6.58	6.41	6.34	6.31	6.08	5.88	6.14	6.28	7.14	7.21
21	6.56	6.62	6.56	6.41	6.37	6.36	6.05	5.87	6.16	6.29	7.15	7.21
22	6.58	6.65	6.54	6.41	6.37	6.43	6.03	5.86	6.20	6.30	7.16	7.20
23	6.62	6.64	6.52	6.42	6.36	6.47	6.02	5.85	6.19	6.33	7.17	7.20
24	6.63	6.70	6.51	6.42	6.34	6.50	6.08	5.83	6.19	6.34	7.18	7.20
25	6.63	6.74	6.50	6.42	6.33	6.52	6.08	5.83	6.20	6.34	7.16	7.21
26	6.64	6.73	6.48	6.41	6.31	6.54	6.06	5.87	6.23	6.36	7.15	7.23
27	6.64	6.71	6.46	6.40	6.30	6.56	6.03	5.93	6.21	6.38	7.14	7.21
28	6.64	6.70	6.44	6.39	6.28	6.58	6.01	5.95	6.22	6.39	7.15	7.20
29	6.64	6.69	6.43	6.38	---	6.60	5.99	5.96	6.21	6.44	7.14	7.32
30	6.64	6.68	6.42	6.36	---	6.60	5.97	5.96	6.22	6.57	7.15	7.27
31	6.64	---	6.41	6.34	---	6.60	---	5.96	---	6.64	7.16	---
MEAN	6.55	6.67	6.57	6.38	6.29	6.36	6.22	5.89	6.10	6.25	7.05	7.23
MAX	6.64	6.74	6.67	6.42	6.37	6.60	6.59	5.96	6.23	6.64	7.18	7.32
MIN	6.44	6.62	6.41	6.33	6.20	6.22	5.97	5.83	5.93	6.10	6.69	7.14

CAL YR 1977 MEAN 6.17 MAX 6.74 MIN 5.24
WTR YR 1978 MEAN 6.46 MAX 7.32 MIN 5.83

02290868 EVERGLADES 205-NP NEAR MIAMI, FL

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1974 to current year (gage heights).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 7.00 ft (2.134 m) July 30, 1978; minimum, 2.35 ft (0.716 m) May 3, 4, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 7.00 ft (2.134 m) July 30; minimum, 3.54 ft (1.079 m) May 18.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.25	4.93	6.06	6.04	5.48	6.16	5.93	4.59	4.06	6.43	6.82	6.67
2	6.22	4.87	6.06	6.03	5.47	6.14	5.89	4.51	5.36	6.40	6.76	6.66
3	6.19	4.82	6.05	6.03	5.46	6.29	5.85	4.43	5.35	6.43	6.71	6.66
4	6.16	4.79	6.04	6.04	5.45	6.32	5.79	4.36	5.25	6.48	6.67	6.67
5	6.14	4.99	6.03	6.03	5.44	6.28	5.73	4.46	5.22	6.49	6.64	6.67
6	6.11	5.04	6.06	6.01	5.40	6.25	5.64	4.44	5.50	6.56	6.65	6.68
7	6.08	4.99	6.09	6.01	5.36	6.23	5.56	4.35	5.90	6.51	6.67	6.68
8	6.06	4.95	6.08	6.00	5.35	6.31	5.48	4.26	5.88	6.53	6.67	6.68
9	6.04	4.90	6.07	6.01	5.89	6.40	5.40	4.18	5.83	6.51	6.66	6.72
10	6.01	4.85	6.09	6.00	5.87	6.47	5.32	4.09	5.81	6.46	6.65	6.70
11	5.98	4.80	6.09	6.00	5.85	6.44	5.25	4.01	5.88	6.42	6.65	6.70
12	5.95	4.73	6.08	5.96	5.83	6.41	5.24	3.95	5.83	6.38	6.68	6.72
13	5.92	4.70	6.07	5.95	5.81	6.38	5.20	3.92	5.79	6.38	6.67	6.74
14	5.87	4.69	6.07	5.92	5.79	6.36	5.14	3.85	5.71	6.37	6.65	6.73
15	5.81	4.69	6.07	5.88	5.77	6.34	5.09	3.77	5.60	6.42	6.64	6.75
16	5.76	4.71	6.06	5.85	5.85	6.32	5.04	3.69	5.50	6.42	6.63	6.77
17	5.67	4.73	6.10	5.82	5.91	6.24	4.96	3.61	5.40	6.46	6.70	6.74
18	5.58	4.74	6.14	5.80	5.90	6.20	4.89	3.77	5.40	6.49	6.69	6.71
19	5.50	4.76	6.13	5.76	5.88	6.18	4.82	4.31	6.03	6.62	6.67	6.69
20	5.44	4.75	6.13	5.75	5.86	6.15	4.75	4.30	6.06	6.61	6.75	6.69
21	5.38	4.74	6.13	5.72	5.85	6.13	4.66	4.22	6.15	6.56	6.72	6.72
22	5.37	5.17	6.13	5.70	5.84	6.11	4.57	4.14	6.31	6.53	6.69	6.69
23	5.41	5.21	6.13	5.66	5.82	6.09	4.49	4.05	6.39	6.51	6.67	6.70
24	5.34	5.49	6.13	5.62	5.86	6.07	4.85	3.97	6.43	6.49	6.65	6.68
25	5.29	5.97	6.12	5.58	5.90	6.04	5.10	3.91	6.44	6.48	6.65	6.68
26	5.25	6.01	6.12	5.55	5.91	6.02	5.04	3.88	6.54	6.48	6.63	6.68
27	5.19	6.02	6.10	5.54	5.91	5.99	4.94	3.83	6.57	6.47	6.62	6.67
28	5.13	6.03	6.08	5.53	5.92	6.00	4.84	3.85	6.53	6.50	6.60	6.68
29	5.07	6.05	6.07	5.52	---	5.99	4.75	4.09	6.50	6.75	6.59	6.83
30	5.03	6.06	6.06	5.50	---	5.96	4.66	4.03	6.46	7.00	6.64	6.82
31	4.98	---	6.04	5.48	---	5.96	---	3.95	---	6.90	6.66	---
MEAN	5.68	5.11	6.09	5.82	5.74	6.20	5.16	4.09	5.86	6.52	6.67	6.71
MAX	6.25	6.06	6.14	6.04	5.92	6.47	5.93	4.59	6.57	7.00	6.82	6.83
MIN	4.98	4.69	6.03	5.48	5.35	5.96	4.49	3.61	4.06	6.37	6.59	6.66

CAL YR 1977	MEAN 4.93	MAX 6.69	MIN 2.35
WTR YR 1978	MEAN 5.80	MAX 7.00	MIN 3.61

02290870 EVERGLADES P-34 NEAR HOMESTEAD, FL

DRAINAGE AREA.--Indeterminate.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark).

REMARKS.--Elevation of the land surface is about 1.3 ft (0.39 m).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 3.42 ft (1.042 m) Sept. 12, 1960; minimum, -2.75 ft (-0.838 m) May 14, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 2.34 ft (0.713 m) Sept. 30; minimum, 0.03 ft (0.009 m) May 25.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.86	1.05	1.42	1.43	1.44	1.66	1.60	.75	1.34	1.73	2.12	2.13
2	1.85	1.02	1.42	1.44	1.44	1.64	1.58	.72	1.38	1.81	2.21	2.17
3	1.80	1.01	1.42	1.45	1.43	1.65	1.55	.67	1.35	1.95	2.24	2.20
4	1.78	1.01	1.42	1.45	1.42	1.77	1.50	.68	1.30	1.98	2.24	2.18
5	1.75	1.05	1.43	1.44	1.43	1.76	1.45	.88	1.27	2.00	2.26	2.20
6	1.72	1.02	1.45	1.44	1.42	1.74	1.40	.84	1.32	2.12	2.30	2.25
7	1.68	.99	1.47	1.44	1.41	1.72	1.30	.76	1.37	2.14	2.32	2.28
8	1.64	.96	1.46	1.44	1.41	1.71	1.25	.69	1.37	2.09	2.30	2.28
9	1.60	.94	1.46	1.43	1.46	1.84	1.20	.62	1.37	2.04	2.24	2.26
10	1.57	.93	1.48	1.42	1.44	1.97	1.18	.57	1.41	2.00	2.24	2.24
11	1.53	.88	1.47	1.42	1.44	1.98	1.15	.54	1.47	1.96	2.26	2.23
12	1.49	.84	1.47	1.41	1.43	1.98	1.10	.52	1.54	1.98	2.27	2.24
13	1.46	.81	1.46	1.43	1.42	1.97	1.07	.48	1.66	2.02	2.28	2.25
14	1.43	.79	1.49	1.45	1.41	1.95	1.05	.42	1.64	2.03	2.32	2.25
15	1.40	.77	1.48	1.44	1.40	1.93	1.05	.35	1.60	2.06	2.25	2.23
16	1.37	.76	1.47	1.43	1.39	1.90	1.07	.29	1.56	2.06	2.24	2.24
17	1.35	.75	1.52	1.43	1.39	1.88	1.02	.23	1.51	2.06	2.24	2.23
18	1.32	.73	1.56	1.42	1.47	1.86	.99	.32	1.47	2.06	2.22	2.21
19	1.30	.88	1.54	1.43	1.60	1.85	.96	.39	1.48	2.06	2.24	2.21
20	1.28	.89	1.53	1.53	1.65	1.82	.91	.35	1.49	2.04	2.26	2.21
21	1.25	.87	1.52	1.52	1.69	1.80	.87	.25	1.56	2.01	2.25	2.22
22	1.26	.98	1.51	1.52	1.72	1.76	.82	.18	1.68	1.98	2.25	2.24
23	1.27	.94	1.50	1.52	1.72	1.72	.82	.13	1.71	1.95	2.25	2.26
24	1.25	1.12	1.49	1.52	1.72	1.70	1.07	.09	1.69	1.93	2.30	2.25
25	1.23	1.25	1.49	1.51	1.72	1.66	1.08	.38	1.67	1.91	2.33	2.25
26	1.21	1.26	1.48	1.51	1.71	1.65	1.01	.77	1.66	1.88	2.31	2.25
27	1.18	1.34	1.47	1.50	1.70	1.65	.93	.69	1.63	1.86	2.28	2.23
28	1.15	1.38	1.46	1.49	1.68	1.64	.87	.68	1.64	1.92	2.24	2.23
29	1.12	1.40	1.45	1.48	---	1.64	.81	.66	1.68	2.01	2.20	2.32
30	1.10	1.41	1.45	1.46	---	1.63	.77	.85	1.69	2.06	2.18	2.34
31	1.08	---	1.44	1.45	---	1.62	---	1.33	---	2.06	2.15	---
MEAN	1.43	1.00	1.47	1.46	1.52	1.78	1.11	.55	1.52	1.99	2.25	2.24
MAX	1.86	1.41	1.56	1.53	1.72	1.98	1.60	1.33	1.71	2.14	2.33	2.34
MIN	1.08	.73	1.42	1.41	1.39	1.62	.77	.09	1.27	1.73	2.12	2.13
CAL YR 1977	MEAN 1.16		MAX 2.40		MIN -.66							

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02290950 ROBERTS LAKE SLOUGH NEAR MONROE, FL

LOCATION.--Lat 25°47'14", long 81°05'59", in NW¼ sec.11, T.53 S., R.32 E., Monroe County, Hydrologic Unit 03090204, on downstream side of State Highway 94, 60 ft (18 m) west of culverts, and 5.2 mi (8.4 km) south of Monroe.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January 1973 to current year.

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

REMARKS.--Records good. Figures of daily discharge consist of runoff from Roberts Lake Slough as represented by flow through all 10 bridges 1 to 10.

AVERAGE DISCHARGE.--5 years, 76.2 ft³/s (2.158 m³/s), 55,170 acre-ft/yr (68.0 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 496 ft³/s (14.0 m³/s) Aug. 24, 1976; maximum gage height, 5.36 ft (1.634 m) Aug. 23, 1976; no flow for many days each year; minimum gage height, -1.06 ft (-0.323 m) May 13, 14, 15, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 429 ft³/s (12.1 m³/s) Oct. 1; maximum gage height, 5.20 ft (1.585 m) Oct. 1, Sept 6-9; no flow for many days; minimum gage height, 3.38 ft (1.030 m) May 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	429	40	.00	5.6	43	121	83	.00	.00	198	163	284
2	422	38	.00	5.6	40	119	73	.00	.00	202	177	267
3	414	33	.00	5.6	37	124	57	.00	.00	203	192	260
4	384	25	.00	6.9	37	145	52	.00	.00	197	219	249
5	360	22	.00	12	37	148	47	.00	.00	197	236	283
6	341	20	.40	13	38	149	41	.00	.00	195	242	322
7	328	19	1.9	13	39	149	31	.00	.00	196	236	345
8	304	12	4.1	14	41	149	31	.00	.00	197	234	345
9	281	11	4.6	19	71	188	23	.00	.00	197	228	344
10	262	9.5	16	19	75	216	18	.00	.00	205	199	331
11	236	3.6	21	19	74	234	14	.00	.00	220	193	299
12	215	1.6	19	19	79	237	9.2	.00	5.5	290	201	280
13	196	1.0	19	19	80	238	3.3	.00	27	301	235	256
14	175	.50	19	19	81	235	2.0	.00	19	315	263	258
15	151	.00	13	19	74	232	.90	.00	21	294	243	255
16	135	.00	9.9	16	66	217	5.1	.00	18	311	228	240
17	123	.00	13	16	63	206	3.6	.00	11	306	205	212
18	114	.00	15	17	77	174	2.5	.00	9.6	302	199	204
19	105	.00	18	24	104	157	2.6	.00	30	299	197	185
20	99	.00	17	64	102	150	1.4	.00	34	297	198	182
21	89	.00	16	62	112	146	.40	.00	57	305	202	154
22	82	.00	17	66	114	137	.00	.00	79	296	207	144
23	81	.00	17	75	115	123	.00	.00	80	278	210	139
24	81	.30	16	85	113	134	1.8	.00	78	270	220	130
25	76	.70	14	79	111	156	3.0	.00	85	261	246	129
26	69	.70	14	72	110	162	3.9	.00	85	237	304	122
27	60	.60	12	67	114	161	2.3	.00	110	215	305	110
28	53	.20	8.4	62	117	142	1.1	.00	160	206	291	88
29	50	.02	6.9	47	---	127	.50	.00	194	204	281	97
30	48	.00	5.7	35	---	106	.00	.00	191	197	313	89
31	46	---	5.6	33	---	88	---	.00	---	173	304	---
TOTAL	5809	238.72	323.50	1028.7	2164	5070	513.60	.00	1294.10	7564	7171	6603
MEAN	187	7.96	10.4	33.2	77.3	164	17.1	.000	43.1	244	231	220
MAX	429	40	21	85	117	238	83	.00	194	315	313	345
MIN	46	.00	.00	5.6	37	88	.00	.00	.00	173	163	88
AC-FT	11520	474	642	2040	4290	10060	1020	.00	2570	15000	14220	13100

CAL YR 1977 TOTAL 21570.28 MEAN 59.1 MAX 439 MIN .00 AC-FT 42780
WTR YR 1978 TOTAL 37779.62 MEAN 104 MAX 429 MIN .00 AC-FT 74940

SOUTHERN FLORIDA

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BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02290950 ROBERTS LAKE SLOUGH NEAR MONROE, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.20	4.68	4.41	4.55	4.67	4.85	4.76	4.31	3.73	4.87	4.90	5.13
2	5.19	4.68	4.39	4.55	4.66	4.85	4.74	4.27	3.81	4.87	4.92	5.12
3	5.18	4.66	4.38	4.55	4.65	4.85	4.70	4.17	4.08	4.87	4.95	5.11
4	5.18	4.63	4.35	4.56	4.65	4.89	4.68	4.11	4.03	4.87	4.99	5.09
5	5.17	4.62	4.33	4.59	4.65	4.90	4.67	4.30	3.92	4.87	5.02	5.13
6	5.15	4.62	4.40	4.59	4.65	4.90	4.65	4.29	3.99	4.86	5.03	5.20
7	5.15	4.61	4.51	4.59	4.65	4.90	4.62	4.22	4.21	4.86	5.02	5.20
8	5.13	4.57	4.54	4.60	4.66	4.90	4.62	4.10	4.21	4.87	5.02	5.20
9	5.11	4.57	4.54	4.62	4.74	4.96	4.59	3.99	4.24	4.86	5.02	5.20
10	5.09	4.56	4.60	4.63	4.75	5.01	4.57	3.91	4.27	4.88	4.98	5.18
11	5.06	4.53	4.63	4.62	4.74	5.03	4.55	3.86	4.24	4.90	4.97	5.15
12	5.03	4.50	4.62	4.62	4.75	5.03	4.52	3.85	4.28	5.00	4.98	5.13
13	5.00	4.47	4.62	4.62	4.75	5.03	4.49	3.79	4.49	5.02	5.03	5.10
14	4.97	4.44	4.62	4.62	4.76	5.03	4.47	3.69	4.46	5.04	5.08	5.10
15	4.93	4.41	4.59	4.62	4.74	5.03	4.42	3.59	4.47	5.02	5.05	5.09
16	4.90	4.37	4.57	4.61	4.72	5.00	4.50	3.51	4.46	5.04	5.03	5.07
17	4.88	4.35	4.59	4.61	4.72	4.99	4.49	3.44	4.42	5.04	5.00	5.03
18	4.86	4.32	4.60	4.61	4.75	4.94	4.48	3.41	4.41	5.04	4.99	5.01
19	4.84	4.28	4.62	4.64	4.81	4.91	4.48	3.61	4.50	5.04	4.99	4.98
20	4.83	4.27	4.61	4.76	4.81	4.90	4.45	4.05	4.52	5.04	5.00	4.97
21	4.81	4.23	4.61	4.76	4.83	4.89	4.40	3.99	4.59	5.06	5.00	4.92
22	4.79	4.33	4.61	4.77	4.83	4.87	4.35	4.00	4.64	5.05	5.01	4.91
23	4.79	4.35	4.61	4.79	4.84	4.85	4.32	3.95	4.65	5.04	5.02	4.90
24	4.79	4.40	4.60	4.82	4.84	4.87	4.45	3.87	4.64	5.03	5.04	4.88
25	4.78	4.46	4.59	4.80	4.83	4.91	4.48	3.84	4.66	5.03	5.07	4.87
26	4.76	4.46	4.59	4.78	4.83	4.92	4.49	3.79	4.66	5.00	5.15	4.86
27	4.74	4.45	4.58	4.77	4.84	4.91	4.48	3.79	4.71	4.97	5.15	4.83
28	4.72	4.43	4.56	4.76	4.84	4.88	4.43	3.90	4.80	4.96	5.14	4.78
29	4.71	4.42	4.56	4.72	---	4.85	4.41	3.93	4.86	4.96	5.13	4.80
30	4.71	4.41	4.55	4.68	---	4.81	4.36	3.85	4.86	4.95	5.16	4.79
31	4.70	---	4.55	4.67	---	4.77	---	3.80	---	4.91	5.16	---
MEAN	4.94	4.47	4.55	4.66	4.75	4.92	4.52	3.91	4.39	4.96	5.03	5.02
MAX	5.20	4.68	4.63	4.82	4.84	5.03	4.76	4.31	4.86	5.06	5.16	5.20
MIN	4.70	4.23	4.33	4.55	4.65	4.77	4.32	3.41	3.73	4.86	4.90	4.78

CAL YR 1977	MEAN 3.64	MAX 5.25	MIN .05
WTR YR 1978	MEAN 4.68	MAX 5.20	MIN 3.41

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 (12 m) upstream from control structure, 0.7 mi (1.1 km) north of Copeland, 7 mi (11 km) north of town of Everglades, and 7.5 mi (12.1 km) 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.--Records fair except those below 20 ft³/s (0.57 m³/s), which are 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.--26 years (1952-78); 101 ft³/s (2.86 m³/s), 73,120 acre-ft/yr (90.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 292 ft³/s (8.27 m³/s) Sept. 25, 1962; maximum gage height, 6.43 ft (1.96 m) Sept. 10 or 11, 1960; no flow many days; minimum gage height, 0.21 ft (0.064 m) May 18, 1962.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of October 1947 reached a stage of about 7 ft (2.13 m), from information by local resident.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 248 ft³/s (7.02 m³/s) Sept. 8; maximum gage height, 5.20 ft (1.585 m) Sept 8, 16; minimum daily discharge, 10 ft³/s (0.283 m³/s) Nov. 15, 16; minimum gage height, 1.55 ft (0.472 m) May 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	218	42	41	133	98	116	111	40	25	180	194	200
2	218	32	39	138	95	112	107	35	27	187	196	198
3	217	28	36	145	93	124	103	30	37	178	198	196
4	215	41	32	143	90	140	99	28	61	169	197	200
5	215	38	30	142	88	130	95	48	65	161	191	209
6	213	33	49	141	84	124	91	59	66	163	193	221
7	208	29	75	140	78	121	87	56	86	178	192	242
8	201	26	72	142	81	117	83	50	92	181	186	248
9	190	24	74	150	109	158	79	41	93	170	182	245
10	185	20	105	140	103	161	74	33	91	165	188	238
11	178	18	105	150	98	158	65	25	107	174	204	235
12	170	16	105	162	92	157	46	21	123	186	218	227
13	165	13	105	164	86	157	36	20	127	179	227	210
14	161	11	106	163	80	156	31	19	115	170	225	192
15	158	10	106	158	73	155	31	18	108	172	219	195
16	155	10	106	154	69	154	55	16	114	179	208	246
17	152	13	114	152	90	155	47	15	112	177	204	236
18	147	14	127	151	113	156	38	15	109	170	198	222
19	147	14	130	155	133	152	33	14	150	188	190	209
20	141	13	132	169	129	153	29	14	173	219	182	199
21	127	13	133	164	133	155	25	13	167	219	171	187
22	117	13	133	163	141	153	22	13	169	218	165	183
23	106	13	132	163	150	149	20	13	159	216	171	177
24	96	19	132	158	143	146	42	12	148	210	169	177
25	90	33	135	147	132	146	70	12	144	203	153	176
26	83	38	148	140	127	139	64	14	145	193	146	163
27	74	38	145	134	123	134	58	20	147	184	140	153
28	68	38	139	129	119	129	57	19	149	175	130	145
29	62	39	133	124	---	128	51	18	154	172	149	138
30	54	41	132	114	---	121	45	17	160	183	186	134
31	44	---	133	100	---	115	---	18	---	183	197	---
TOTAL	4575	730	3184	4528	2950	4371	1794	766	3423	5702	5769	6001
MEAN	148	24.3	103	146	105	141	59.8	24.7	114	184	186	200
MAX	218	42	148	169	150	161	111	59	173	219	227	248
MIN	44	10	30	100	69	112	20	12	25	161	130	134
AC-FT	9070	1450	6320	8980	5850	8670	3560	1520	6790	11310	11440	11900

CAL YR 1977 TOTAL 32660.8 MEAN 89.5 MAX 231 MIN 7.7 AC-FT 64780
WTR YR 1978 TOTAL 43793.0 MEAN 120 MAX 248 MIN 10 AC-FT 86860

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02291000 BARRON RIVER CANAL NEAR EVERGLADES, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.09	2.76	2.88	3.90	3.39	3.65	3.32	2.33	2.20	4.26	4.45	4.53
2	5.08	2.62	2.86	3.97	3.37	3.60	3.26	2.25	2.22	4.36	4.47	4.50
3	5.05	2.55	2.83	4.05	3.34	3.76	3.20	2.16	2.35	4.24	4.50	4.47
4	5.00	2.75	2.79	4.03	3.33	4.00	3.13	2.13	2.63	4.11	4.49	4.53
5	4.98	2.71	2.76	4.01	3.31	3.86	3.08	2.44	2.68	4.00	4.41	4.64
6	4.93	2.65	2.96	4.01	3.27	3.77	3.03	2.58	2.69	4.02	4.44	4.80
7	4.85	2.58	3.20	3.99	3.23	3.72	2.98	2.56	2.97	4.23	4.42	5.11
8	4.75	2.52	3.17	4.02	3.26	3.68	2.93	2.49	3.05	4.28	4.35	5.19
9	4.58	2.48	3.19	4.13	3.55	4.25	2.88	2.40	3.06	4.12	4.29	5.15
10	4.49	2.39	3.49	3.99	3.46	4.27	2.81	2.30	3.03	4.05	4.36	5.05
11	4.39	2.32	3.49	4.14	3.40	4.20	2.68	2.20	3.25	4.16	4.58	5.01
12	4.25	2.20	3.48	4.31	3.34	4.16	2.40	2.13	3.48	4.34	4.77	4.90
13	4.16	2.00	3.48	4.34	3.29	4.13	2.27	2.09	3.53	4.24	4.90	4.66
14	4.08	1.85	3.51	4.31	3.24	4.10	2.18	2.04	3.37	4.12	4.87	4.42
15	4.02	1.65	3.51	4.24	3.18	4.06	2.17	1.95	3.26	4.14	4.77	4.47
16	3.95	1.78	3.50	4.19	3.15	4.02	2.52	1.89	3.36	4.24	4.64	5.17
17	3.89	1.92	3.63	4.16	3.32	4.02	2.41	1.84	3.32	4.21	4.57	5.02
18	3.80	2.08	3.82	4.13	3.63	4.01	2.29	1.82	3.28	4.12	4.50	4.82
19	3.77	2.07	3.85	4.20	3.90	3.93	2.21	1.77	3.83	4.37	4.40	4.63
20	3.66	2.05	3.88	4.40	3.84	3.91	2.14	1.75	4.16	4.78	4.29	4.51
21	3.51	2.02	3.90	4.34	3.89	3.93	2.07	1.71	4.08	4.77	4.14	4.35
22	3.42	2.02	3.90	4.32	4.01	3.87	1.99	1.68	4.08	4.77	4.05	4.30
23	3.32	2.01	3.89	4.31	4.13	3.81	1.94	1.64	3.93	4.73	4.13	4.22
24	3.23	2.33	3.88	4.24	4.02	3.78	2.34	1.61	3.78	4.66	4.10	4.22
25	3.19	2.73	3.93	4.08	3.88	3.78	2.75	1.62	3.72	4.56	3.87	4.20
26	3.15	2.81	4.10	3.99	3.81	3.70	2.66	1.76	3.73	4.43	3.79	4.02
27	3.08	2.82	4.06	3.90	3.76	3.62	2.57	2.07	3.77	4.32	3.70	3.88
28	3.04	2.82	3.98	3.84	3.70	3.57	2.55	2.03	3.80	4.19	3.57	3.76
29	2.99	2.85	3.89	3.77	---	3.55	2.47	1.98	3.87	4.15	3.83	3.68
30	2.92	2.88	3.89	3.62	---	3.45	2.40	1.93	3.85	4.30	4.30	3.63
31	2.81	---	3.89	3.42	---	3.38	---	1.97	---	4.30	4.40	---
MEAN	3.98	2.37	3.54	4.08	3.54	3.86	2.59	2.04	3.34	4.31	4.33	4.53
MAX	5.09	2.88	4.10	4.40	4.13	4.27	3.32	2.58	4.16	4.78	4.90	5.19
MIN	2.81	1.65	2.76	3.42	3.15	3.38	1.94	1.61	2.20	4.00	3.57	3.63

CAL YR 1977 MEAN 3.22 MAX 5.65 MIN .83
WTR YR 1978 MEAN 3.55 MAX 5.19 MIN 1.61

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

261616081314400 FAKA UNION CANAL NEAR SUNNILAND, FL.

LOCATION.--Lat 26°16'16", long 81°31'40", in NW¼SW¼ sec.28, T.48 S., R.28 E., Hydrologic Unit 03090204, on left bank, 50 ft (15 m) upstream from weir number 15 and 22nd Avenue N.E., 1.5 mi (2.4 km) south of State Highway 858, and 12 mi (19 km) northeast of Sunniland.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is about National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 10.61 ft (3.234 m) May 9; minimum, 9.43 ft (2.874 m) estimated Nov. 23.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.08	9.77	9.64	9.63	9.67	9.82	9.83	9.80	9.87	9.91	10.37	10.05
2	10.05	9.76	9.63	9.65	9.66	9.81	9.81	9.77	9.91	9.92	10.32	10.06
3	10.04	9.75	9.62	9.66	9.65	9.80	9.80	9.77	9.93	9.96	10.33	10.06
4	10.06	9.75	9.59	9.66	9.64	9.86	9.80	9.77	9.96	9.99	10.37	10.14
5	10.05	9.76	9.56	9.66	9.63	9.82	9.79	9.84	9.98	10.01	10.36	10.16
6	10.02	9.74	9.58	9.65	9.61	9.80	9.85	9.87	9.98	10.00	10.52	10.17
7	10.00	9.73	9.66	9.65	9.59	9.79	9.83	9.85	9.99	10.04	10.50	10.18
8	9.98	9.73	9.70	9.65	9.57	10.00	9.80	9.83	10.00	10.12	10.40	10.18
9	9.95	9.72	9.73	9.69	9.59	10.17	9.71	10.05	10.02	10.08	10.34	10.17
10	9.93	9.71	9.79	9.70	9.60	10.14	9.66	10.07	10.05	10.05	10.28	10.16
11	9.92	9.68	9.79	9.70	9.59	10.11	9.64	10.00	10.09	10.03	10.27	10.20
12	9.91	9.66	9.78	9.70	9.59	10.07	9.64	9.96	10.07	10.01	10.27	10.16
13	9.89	9.64	9.78	9.73	9.58	10.03	9.63	9.94	10.05	10.01	10.24	10.13
14	9.87	9.62	9.77	9.74	9.57	10.00	9.65	9.92	10.02	10.05	10.20	10.11
15	9.86	9.60	9.77	9.74	9.55	9.97	9.66	9.91	10.01	10.17	10.17	10.10
16	9.85	9.57	9.76	9.74	9.55	9.94	9.66	9.91	10.01	10.16	10.15	10.15
17	9.83	9.47	9.79	9.74	9.63	9.91	9.67	9.87	9.96	10.12	10.15	10.12
18	9.82	9.46	9.80	9.74	9.77	9.89	9.65	9.85	9.93	10.13	10.15	10.10
19	9.81	9.44	9.78	9.76	9.90	9.87	9.60	9.82	9.91	10.28	10.13	10.08
20	9.81	9.43	9.77	9.79	9.89	9.85	9.60	9.80	9.88	10.38	10.12	10.07
21	9.81	9.47	9.77	9.79	9.89	9.85	9.59	9.79	9.85	10.25	10.07	10.06
22	9.80	9.45	9.76	9.78	9.88	9.84	9.58	9.78	9.84	10.19	10.13	10.05
23	9.80	9.43	9.75	9.77	9.87	9.83	9.65	9.77	9.88	10.18	10.10	10.04
24	9.80	9.47	9.74	9.77	9.86	9.91	9.73	9.75	9.94	10.17	10.07	10.04
25	9.79	9.54	9.73	9.76	9.85	9.96	9.77	9.75	9.99	10.16	10.05	10.07
26	9.79	9.55	9.73	9.76	9.84	9.94	9.85	9.74	9.99	10.26	10.05	10.07
27	9.79	9.55	9.71	9.74	9.83	9.92	9.90	9.74	9.98	10.20	10.09	10.05
28	9.78	9.53	9.69	9.73	9.82	9.91	9.90	9.77	9.95	10.15	10.08	10.04
29	9.77	9.53	9.67	9.71	---	9.89	9.83	9.80	9.94	10.19	10.05	10.05
30	9.77	9.55	9.65	9.70	---	9.87	9.80	9.86	9.93	10.38	10.05	10.13
31	9.79	---	9.64	9.69	---	9.85	---	9.87	---	10.50	10.05	---
MEAN	9.88	9.60	9.71	9.72	9.70	9.92	9.73	9.85	9.96	10.13	10.21	10.11
MAX	10.08	9.77	9.80	9.79	9.90	10.17	9.90	10.07	10.09	10.50	10.52	10.20
MIN	9.77	9.43	9.56	9.63	9.55	9.79	9.58	9.74	9.84	9.91	10.05	10.04

WTR YR 1978 MEAN 9.88 MAX 10.52 MIN 9.43

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

260342081312500 FAKA UNION CANAL NEAR DEEP LAKE, FL

LOCATION.--Lat 26°03'42", long 81°31'25", in NE¼NE¼ sec.5, T.51 S., R.28 E., Collier County, Hydrologic Unit 03090204, on right bank, 50 ft (15 m) above weir number 19, 0.5 mi (0.8 km) upstream from bridge on 100th Avenue S.E., and 11 mi (18 km) north-west of Deep Lake.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is about National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 285 ft³/s (8.07 m³/s) Aug. 24; maximum gage height, 12.18 ft (3.712 m) Aug. 23; minimum daily discharge, 6.9 ft³/s (0.195 m³/s); minimum gage height, 9.28 ft (2.829 m) Apr. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	27	16	17	12	16	13	11	12	92	115	248
2	51	24	23	16	12	17	13	11	12	126	133	246
3	50	20	24	15	12	13	13	10	12	113	178	240
4	50	16	24	15	12	19	12	9.8	12	100	178	239
5	47	15	22	14	12	18	12	13	12	91	171	246
6	47	15	19	14	12	17	12	15	11	88	179	240
7	46	14	19	13	12	16	12	15	11	104	176	235
8	46	15	21	13	12	19	11	14	12	102	170	227
9	41	14	23	13	12	36	9.0	14	12	96	175	221
10	41	14	25	13	12	38	8.6	13	12	104	172	215
11	41	13	29	13	12	36	8.3	13	14	127	171	212
12	40	13	31	13	12	34	8.0	13	20	128	168	204
13	40	13	32	13	11	31	7.7	13	26	127	176	195
14	41	13	32	13	12	29	7.5	12	24	125	196	188
15	40	13	33	13	11	27	7.6	12	22	192	203	184
16	38	12	35	13	11	26	8.8	12	22	190	201	195
17	37	12	36	13	12	24	8.7	11	20	184	202	199
18	37	12	42	13	13	23	8.3	11	23	190	209	199
19	34	12	42	13	18	21	8.1	11	32	182	205	191
20	35	12	40	15	18	21	7.8	10	35	196	205	185
21	35	12	40	15	18	19	7.5	9.6	42	193	200	178
22	34	12	37	15	18	19	7.2	8.8	83	182	196	188
23	34	12	33	15	18	17	6.9	8.5	86	173	218	178
24	34	15	30	14	17	17	11	8.1	74	162	285	181
25	33	19	27	14	17	16	16	7.9	73	152	268	192
26	32	18	26	14	16	16	14	7.7	89	147	260	180
27	32	17	24	13	16	16	13	7.6	79	138	254	162
28	31	17	23	13	16	15	12	7.4	73	128	246	146
29	31	16	21	13	---	15	12	7.3	74	120	240	132
30	30	16	19	13	---	14	11	7.2	76	125	243	118
31	30	---	18	13	---	14	---	12	---	120	250	---
TOTAL	1211	453	866	427	386	659	307.0	335.9	1105	4297	6243	5964
MEAN	39.1	15.1	27.9	13.8	13.8	21.3	10.2	10.8	36.8	139	201	199
MAX	53	27	42	17	18	38	16	15	89	196	285	248
MIN	30	12	16	13	11	13	6.9	7.2	11	88	115	118
AC-FT	2400	899	1720	847	766	1310	609	666	2190	8520	12380	11830

WTR YR 1978 TOTAL 22253.9 MEAN 61.0 MAX 285 MIN 6.9 AC-FT 44140

SOUTHERN FLORIDA

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

260342081312500 FAKA UNION CANAL NEAR DEEP LAKE, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.03	9.79	9.75	9.76	9.67	9.75	9.70	9.60	9.63	10.48	10.68	11.89
2	10.01	9.78	9.75	9.76	9.66	9.77	9.69	9.58	9.63	10.79	10.84	11.87
3	10.00	9.76	9.76	9.75	9.67	9.70	9.68	9.55	9.63	10.67	11.26	11.82
4	9.99	9.75	9.76	9.75	9.66	9.81	9.67	9.54	9.63	10.55	11.26	11.81
5	9.96	9.75	9.74	9.73	9.66	9.79	9.65	9.69	9.63	10.46	11.19	11.88
6	9.96	9.74	9.71	9.70	9.65	9.78	9.64	9.75	9.62	10.43	11.26	11.82
7	9.95	9.73	9.71	9.70	9.65	9.77	9.63	9.74	9.62	10.58	11.24	11.77
8	9.94	9.73	9.73	9.69	9.65	9.82	9.59	9.73	9.64	10.56	11.18	11.70
9	9.91	9.72	9.75	9.70	9.66	9.97	9.50	9.71	9.64	10.51	11.23	11.65
10	9.91	9.71	9.77	9.70	9.65	9.98	9.46	9.71	9.65	10.58	11.20	11.59
11	9.91	9.70	9.80	9.69	9.65	9.96	9.43	9.70	9.73	10.79	11.19	11.56
12	9.90	9.69	9.82	9.69	9.64	9.94	9.40	9.69	9.82	10.80	11.17	11.50
13	9.90	9.69	9.84	9.70	9.62	9.92	9.37	9.68	9.87	10.79	11.23	11.41
14	9.90	9.68	9.84	9.70	9.63	9.90	9.35	9.66	9.85	10.77	11.42	11.34
15	9.89	9.68	9.85	9.70	9.62	9.88	9.36	9.65	9.84	11.38	11.48	11.31
16	9.88	9.67	9.87	9.69	9.61	9.87	9.48	9.63	9.84	11.37	11.46	11.41
17	9.87	9.67	9.92	9.69	9.63	9.86	9.47	9.60	9.82	11.31	11.48	11.45
18	9.87	9.66	9.93	9.69	9.68	9.85	9.43	9.59	9.85	11.36	11.54	11.45
19	9.86	9.65	9.93	9.69	9.80	9.83	9.41	9.58	9.93	11.30	11.50	11.37
20	9.85	9.65	9.91	9.74	9.80	9.82	9.38	9.56	9.95	11.42	11.50	11.32
21	9.85	9.64	9.91	9.74	9.80	9.81	9.35	9.53	10.02	11.39	11.45	11.25
22	9.84	9.63	9.89	9.74	9.80	9.80	9.32	9.48	10.39	11.29	11.42	11.34
23	9.84	9.63	9.89	9.74	9.79	9.79	9.29	9.45	10.42	11.21	11.62	11.26
24	9.84	9.74	9.86	9.73	9.79	9.78	9.53	9.41	10.31	11.11	12.13	11.28
25	9.83	9.81	9.85	9.72	9.78	9.77	9.75	9.39	10.30	11.02	12.07	11.38
26	9.82	9.80	9.84	9.72	9.77	9.76	9.73	9.37	10.45	10.97	12.00	11.27
27	9.82	9.78	9.81	9.70	9.77	9.75	9.70	9.36	10.36	10.89	11.94	11.11
28	9.81	9.78	9.80	9.70	9.75	9.75	9.67	9.34	10.30	10.80	11.87	10.96
29	9.81	9.77	9.79	9.69	---	9.74	9.65	9.33	10.31	10.72	11.82	10.83
30	9.80	9.76	9.78	9.68	---	9.73	9.62	9.32	10.33	10.77	11.84	10.71
31	9.80	---	9.77	9.68	---	9.71	---	9.63	---	10.73	11.91	---
MEAN	9.89	9.72	9.82	9.71	9.70	9.82	9.53	9.57	9.93	10.90	11.46	11.44
MAX	10.03	9.81	9.93	9.76	9.80	9.98	9.75	9.75	10.45	11.42	12.13	11.89
MIN	9.80	9.63	9.71	9.68	9.61	9.70	9.29	9.32	9.62	10.43	10.68	10.71

WTR YR 1978 MEAN 10.13 MAX 12.13 MIN 9.29

SOUTHERN FLORIDA

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BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02291143 FAKA UNION CANAL NEAR COPELAND, FL

LOCATION.--Lat 25°57'59", long 81°30'23", in SW¼ sec.3, T.52 S., R.28 E., Collier County, Hydrologic Unit 03090204, on left bank, 0.5 mi (0.8 km) from U.S. Highway 41, and 9.3 mi (15.0 km) west of Copeland.

DRAINAGE AREA.--Indeterminate.

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

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Collier County bench mark).

AVERAGE DISCHARGE.--8 years (1971-78), 248 ft³/s (7.02 m³/s), 179,500 acre-ft/yr (221 hm³/yr).

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,200 ft³/s (90.6 m³/s) Sept. 15, 1971, gage height, 4.77 ft (1.454 m); no flow for many days in 1971-1976; minimum gage height, 0.37 ft (0.113 m) May 7, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 831 ft³/s (23.5 m³/s) June 20; maximum gage height, 3.62 ft (1.103 m) Mar.10; minimum discharge, 1.0 ft³/s (0.03 m³/s) estimated leakage, May 24-26; minimum gage height, 2.55 ft (0.777 m) Nov. 21, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	483	128	73	107	137	166	137	140	275	336	364	543
2	455	118	69	111	132	158	128	155	238	358	377	543
3	461	133	69	106	137	164	123	162	181	383	413	543
4	460	143	64	102	133	254	115	156	129	366	425	523
5	442	138	64	102	126	245	115	288	106	349	428	533
6	421	123	79	97	125	218	115	329	89	335	436	523
7	425	108	95	101	118	200	108	307	88	343	461	523
8	426	89	90	125	118	169	108	271	107	331	467	483
9	415	77	93	119	159	295	103	238	84	316	489	434
10	411	61	147	111	154	436	101	215	39	306	497	453
11	411	50	145	110	139	404	93	201	99	327	500	453
12	415	44	146	125	127	384	91	175	162	332	506	443
13	392	35	119	140	114	364	84	162	262	337	515	453
14	374	26	101	128	112	342	86	145	280	334	533	380
15	366	21	80	122	104	318	92	122	254	342	583	390
16	350	18	72	120	98	303	143	110	265	352	591	410
17	341	16	92	124	118	278	134	102	223	361	591	436
18	322	17	95	115	158	257	126	93	188	371	606	472
19	311	15	87	180	300	241	120	89	268	372	605	490
20	298	13	86	197	303	237	119	77	831	375	619	506
21	278	11	78	189	287	225	113	17	758	384	617	520
22	258	7.0	75	187	275	219	113	9.9	443	384	613	601
23	249	4.1	75	179	250	201	108	3.8	437	380	675	644
24	236	32	82	177	234	195	103	1.0	412	380	812	646
25	221	69	130	170	216	182	99	1.0	425	377	776	578
26	200	75	125	174	201	172	95	1.0	382	377	762	513
27	183	75	120	158	189	162	99	1.5	379	372	743	539
28	173	71	109	153	169	161	113	1.6	344	361	722	641
29	161	72	105	143	---	153	134	1.0	354	361	669	670
30	159	71	102	142	---	148	145	3.4	349	365	594	728
31	197	---	102	137	---	137	---	191	---	366	573	---
TOTAL	10294	1860.1	2969	4251	4733	7388	3363	3769.2	8451	11033	17562	15614
MEAN	332	62.0	95.8	137	169	238	112	122	282	356	567	520
MAX	483	143	147	197	303	436	145	329	831	384	812	728
MIN	159	4.1	64	97	98	137	84	1.0	39	306	364	380
AC-FT	20420	3690	5890	8430	9390	14650	6670	7480	16760	21880	34830	30970

CAL YR 1977 TOTAL 56763.3 MEAN 156 MAX 545 MIN 1.0 AC-FT 112600
WTR YR 1978 TOTAL 91287.3 MEAN 250 MAX 831 MIN 1.0 AC-FT 181100

SOUTHERN FLORIDA

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02291143 FAKA UNION CANAL NEAR COPELAND, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.52	2.88	3.33	3.25	3.14	3.25	3.10	2.94	3.40	2.91	2.90	3.05
2	3.49	2.86	3.32	3.25	3.13	3.24	3.08	2.95	3.35	2.94	2.92	3.05
3	3.49	2.89	3.31	3.24	3.13	3.25	3.06	2.99	3.27	2.96	2.96	3.05
4	3.48	2.91	3.30	3.22	3.12	3.39	3.05	2.99	3.17	2.94	2.98	3.03
5	3.45	2.90	3.29	3.21	3.12	3.38	3.04	3.19	3.13	2.92	2.98	3.04
6	3.42	2.87	3.33	3.20	3.12	3.34	3.03	3.25	3.09	2.90	2.99	3.03
7	3.42	2.84	3.36	3.20	3.10	3.31	3.01	3.23	3.09	2.91	3.01	3.03
8	3.41	2.80	3.33	3.25	3.10	3.27	3.00	3.20	3.13	2.89	3.02	2.98
9	3.39	2.77	3.34	3.23	3.19	3.45	2.99	3.16	3.08	2.88	3.04	2.93
10	3.37	2.73	3.44	3.21	3.18	3.61	2.98	3.14	2.95	2.86	3.05	2.95
11	3.36	2.70	3.43	3.20	3.15	3.58	2.96	3.12	3.11	2.89	3.05	2.95
12	3.36	2.68	3.42	3.23	3.13	3.55	2.95	3.09	3.23	2.89	3.06	2.94
13	3.32	2.65	3.37	3.24	3.11	3.52	2.93	3.07	3.38	2.89	3.07	2.95
14	3.29	2.62	3.32	3.22	3.11	3.49	2.93	3.05	3.41	2.89	3.08	2.87
15	3.27	2.60	3.28	3.20	3.09	3.46	2.94	3.02	3.37	2.90	3.12	2.89
16	3.25	2.58	3.25	3.20	3.08	3.43	3.03	3.01	3.39	2.91	3.13	2.91
17	3.23	2.57	3.30	3.19	3.13	3.40	3.01	2.99	3.33	2.92	3.13	2.94
18	3.19	2.58	3.29	3.18	3.20	3.36	2.99	2.98	3.28	2.93	3.14	2.98
19	3.17	2.59	3.28	3.28	3.41	3.34	2.98	2.98	3.39	2.94	3.14	3.00
20	3.14	2.56	3.27	3.30	3.42	3.32	2.96	2.96	3.42	2.94	3.15	3.01
21	3.12	2.55	3.25	3.29	3.41	3.30	2.95	2.78	3.34	2.94	3.15	3.02
22	3.09	2.72	3.23	3.28	3.39	3.28	2.94	2.75	3.05	2.94	3.14	3.09
23	3.08	3.02	3.22	3.26	3.36	3.26	2.93	2.70	3.04	2.94	3.20	3.13
24	3.06	3.23	3.24	3.25	3.35	3.24	2.91	2.66	3.01	2.93	3.31	3.13
25	3.04	3.35	3.33	3.24	3.32	3.22	2.90	2.65	3.00	2.93	3.28	3.07
26	3.01	3.37	3.32	3.23	3.30	3.19	2.88	2.68	2.97	2.93	3.27	3.01
27	2.98	3.36	3.30	3.21	3.28	3.17	2.89	2.71	2.96	2.92	3.25	3.04
28	2.96	3.35	3.27	3.19	3.26	3.16	2.91	2.72	2.82	2.91	3.23	3.13
29	2.94	3.34	3.25	3.17	---	3.15	2.95	2.70	2.93	2.90	3.19	3.16
30	2.92	3.34	3.25	3.15	---	3.13	2.96	2.71	2.93	2.91	3.12	3.21
31	2.90	---	3.24	3.15	---	3.11	---	3.26	---	2.91	3.10	---
MEAN	3.23	2.87	3.31	3.22	3.21	3.33	2.97	2.96	3.17	2.92	3.10	3.02
MAX	3.52	3.37	3.44	3.30	3.42	3.61	3.10	3.26	3.42	2.96	3.31	3.21
MIN	2.90	2.55	3.22	3.15	3.08	3.11	2.88	2.65	2.82	2.86	2.90	2.87
CAL YR 1977	MEAN 3.05		MAX 3.63	MIN 2.00								
WTR YR 1978	MEAN 3.11		MAX 3.61	MIN 2.55								

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02291270 HENDERSON CREEK CANAL NEAR NAPLES, FL

LOCATION.--Lat 26°05'59", long 81°41'14", in SW¼ sec.23, T.50 S., R.26 E., Collier County, Hydrologic Unit 030902024, on right bank 5 ft (2 m) downstream from private bridge, 3.8 mi (6.1 km) south of Everglades Parkway, and 7 mi (11 km) southeast of Naples.

DRAINAGE AREA.--Indeterminate.

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

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Collier County bench mark).

REMARKS.--Records fair.

AVERAGE DISCHARGE.--10 years (1969-78) 24.8 ft³/s (0.70 m³/s), 17,950 acre-ft/yr (22.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 353 ft³/s (10.0 m³/s) Aug. 21, 1973; maximum gage height, 10.00 ft (3.048 m) Aug. 21, 1973; no flow for some days in 1974 and 1975; minimum gage height, 3.91 ft (1.191 m) May 17 to June 6, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 114 ft³/s (3.23 m³/s) Aug. 14; maximum gage height, 9.78 ft (2.981 m) Aug. 13, 14; minimum daily discharge, 4.7 ft³/s (0.13 m³/s) Nov. 23; minimum gage height, 4.93 ft (1.503 m) Apr. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	9.2	7.4	9.4	11	23	11	8.9	13	64	84	72
2	35	8.8	7.4	9.8	10	21	9.8	8.6	18	67	87	64
3	32	8.5	7.3	10	10	21	9.3	8.3	17	64	88	63
4	30	8.4	7.3	10	9.7	25	8.8	8.1	15	60	88	65
5	28	8.2	7.4	10	9.9	25	8.6	10	14	57	87	67
6	26	8.0	7.6	10	10	24	8.1	15	13	55	85	64
7	25	7.8	8.2	9.9	9.8	22	7.8	14	13	54	82	63
8	24	7.5	8.4	9.9	10	21	7.7	13	13	52	79	59
9	23	7.3	8.5	11	11	30	7.3	12	13	51	76	57
10	22	7.2	9.7	12	12	37	7.1	11	13	52	89	62
11	20	6.9	11	11	12	33	7.0	10	15	56	104	88
12	19	6.7	10	11	12	31	6.7	9.9	15	64	109	76
13	18	6.4	10	11	11	29	6.4	9.5	14	63	113	61
14	17	6.3	10	12	11	27	6.4	9.0	13	62	114	57
15	16	6.1	10	12	11	25	6.3	8.6	12	65	110	59
16	15	5.9	9.9	12	11	24	6.4	8.2	12	63	106	58
17	14	5.7	11	12	14	23	6.2	7.7	11	60	102	59
18	14	5.4	13	12	19	22	6.1	7.4	11	59	101	53
19	14	5.3	13	12	28	20	5.8	7.6	13	57	95	60
20	13	5.1	12	15	27	20	5.6	7.9	21	79	89	62
21	13	4.9	12	15	28	19	5.3	7.7	26	74	82	54
22	13	4.8	11	15	27	17	5.0	7.2	33	69	77	49
23	13	4.7	11	14	27	17	4.8	6.8	31	65	78	46
24	12	6.3	11	14	27	16	8.3	6.4	27	58	92	44
25	12	8.0	10	13	25	15	15	6.2	25	64	83	43
26	11	8.0	11	13	24	14	13	6.2	25	67	76	41
27	11	7.6	10	12	25	13	12	6.4	30	72	70	39
28	10	7.4	9.8	12	25	13	11	6.9	59	75	66	39
29	9.9	7.3	9.6	11	---	12	9.9	8.0	68	78	62	39
30	9.5	7.4	9.4	11	---	11	9.3	10	69	80	62	39
31	9.4	---	9.6	11	---	11	---	11	---	82	74	---
TOTAL	567.8	207.1	303.5	363.0	467.4	661	242.0	277.5	672	1988	2710	1702
MEAN	18.3	6.90	9.79	11.7	16.7	21.3	8.07	8.95	22.4	64.1	87.4	56.7
MAX	39	9.2	13	15	28	37	15	15	69	82	114	88
MIN	9.4	4.7	7.3	9.4	9.7	11	4.8	6.2	11	51	62	39
AC-FT	1130	411	602	720	927	1310	480	550	1330	3940	5380	3380

CAL YR 1977 TOTAL 13943.33 MEAN 38.2 MAX 242 MIN .60 AC-FT 27660
WTR YR 1978 TOTAL 10161.30 MEAN 27.8 MAX 114 MIN 4.7 AC-FT 20150

SOUTHERN FLORIDA

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02291270 HENDERSON CREEK CANAL NEAR NAPLES, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.03	6.36	5.90	5.52	5.25	5.28	5.07	5.27	5.49	7.12	8.40	8.02
2	7.88	6.32	5.87	5.53	5.22	5.20	5.05	5.25	5.80	7.26	8.50	7.72
3	7.76	6.28	5.85	5.55	5.20	5.23	5.03	5.23	5.72	7.12	8.55	7.67
4	7.67	6.26	5.82	5.54	5.18	5.40	5.01	5.22	5.65	7.00	8.60	7.78
5	7.56	6.24	5.80	5.51	5.17	5.41	5.01	5.34	5.58	6.91	8.55	7.86
6	7.47	6.21	5.80	5.49	5.15	5.36	5.00	5.61	5.53	6.84	8.50	7.73
7	7.41	6.18	5.85	5.47	5.13	5.32	4.99	5.56	5.53	6.79	8.40	7.67
8	7.35	6.15	5.85	5.46	5.13	5.29	4.98	5.50	5.53	6.75	8.30	7.52
9	7.30	6.12	5.83	5.52	5.16	5.66	4.98	5.45	5.51	6.73	8.20	7.45
10	7.25	6.10	5.93	5.54	5.16	5.92	4.97	5.41	5.51	6.79	8.70	7.66
11	7.17	6.06	5.98	5.51	5.14	5.80	4.97	5.37	5.63	6.93	9.30	8.67
12	7.10	6.03	5.95	5.49	5.11	5.72	4.96	5.33	5.64	7.28	9.51	8.20
13	7.05	6.00	5.91	5.48	5.09	5.65	4.96	5.31	5.59	7.24	9.68	7.63
14	6.99	5.97	5.87	5.53	5.06	5.59	4.96	5.28	5.54	7.20	9.72	7.46
15	6.95	5.95	5.85	5.52	5.04	5.53	4.97	5.24	5.48	7.36	9.57	7.53
16	6.91	5.93	5.82	5.50	5.04	5.49	4.98	5.21	5.44	7.29	9.40	7.51
17	6.86	5.90	5.91	5.47	5.12	5.45	4.98	5.18	5.40	7.21	9.22	7.53
18	6.84	5.86	6.01	5.47	5.33	5.41	4.98	5.17	5.38	7.18	9.21	7.30
19	6.83	5.84	5.97	5.47	5.64	5.38	4.98	5.18	5.51	7.13	8.96	7.58
20	6.82	5.82	5.90	5.58	5.61	5.35	4.98	5.20	5.96	8.02	8.70	7.65
21	6.81	5.79	5.86	5.61	5.61	5.31	4.96	5.18	6.21	7.81	8.45	7.35
22	6.78	5.77	5.81	5.58	5.58	5.26	4.95	5.15	6.48	7.64	8.22	7.17
23	6.75	5.75	5.75	5.52	5.54	5.24	4.94	5.12	6.39	7.48	8.27	7.05
24	6.70	5.95	5.72	5.50	5.51	5.23	5.20	5.09	6.25	7.23	8.85	6.97
25	6.62	6.14	5.69	5.47	5.44	5.20	5.61	5.08	6.17	7.45	8.49	6.92
26	6.56	6.12	5.69	5.42	5.39	5.17	5.54	5.07	6.16	7.61	8.18	6.87
27	6.51	6.03	5.65	5.37	5.41	5.14	5.46	5.09	6.31	7.82	7.96	6.79
28	6.46	5.98	5.61	5.35	5.39	5.13	5.40	5.13	6.89	7.99	7.80	6.76
29	6.44	5.94	5.57	5.32	---	5.12	5.33	5.21	7.25	8.10	7.65	6.79
30	6.40	5.92	5.55	5.29	---	5.10	5.30	5.35	7.28	8.21	7.65	6.77
31	6.39	---	5.54	5.27	---	5.08	---	5.41	---	8.30	8.14	---
MEAN	7.02	6.03	5.81	5.48	5.28	5.37	5.08	5.26	5.89	7.35	8.63	7.45
MAX	8.03	6.36	6.01	5.61	5.64	5.92	5.61	5.61	7.28	8.30	9.72	8.67
MIN	6.39	5.75	5.54	5.27	5.04	5.08	4.94	5.07	5.38	6.73	7.65	6.76

CAL YP 1977 MEAN 6.13 MAX 9.24 MIN 4.38
WTR YR 1978 MEAN 6.23 MAX 9.72 MIN 4.94

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02291280 GORDON RIVER AT NAPLES, FL

LOCATION.--Lat 26°10'26", long 81°47'06", in SE¼ sec.27, T.49 S., R.25 E., Collier County, Hydrologic Unit 03090204, near left bank, 40 ft (12 m) upstream from salinity-control structure at State Highway 851 in Naples, and 2.7 mi (4.3 km) upstream from Naples Bay.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1970 to February 1971 (intermittent) and March 1971 to current year (gage heights).

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

REMARKS.--Water levels are often affected by tidal fluctuations.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 4.80 ft (1.463 m) Sept. 14, 1971; minimum, -2.39 ft (-0.728 m) Apr. 25, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 3.45 ft (1.052 m) Mar. 9; minimum, 0.29 ft (0.088 m) Aug.23.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.08	1.39	2.87	2.48	1.88	2.43	1.72	1.67	1.51	2.66	3.18	2.52
2	3.06	1.43	2.84	2.53	1.90	2.46	1.63	1.67	1.50	2.62	3.15	2.54
3	3.07	1.52	2.80	2.61	1.93	2.57	1.58	1.73	1.48	2.56	3.09	2.54
4	3.04	1.57	2.76	2.67	1.95	3.01	1.51	1.88	1.48	2.46	3.11	2.52
5	2.98	1.58	2.72	2.68	1.95	3.15	1.52	2.30	1.45	2.44	3.18	2.59
6	2.97	1.58	2.81	2.68	1.96	3.16	1.53	2.63	1.45	2.37	3.18	2.76
7	2.92	1.61	3.01	2.68	1.97	2.82	1.42	2.61	1.44	2.22	3.23	2.82
8	2.86	1.63	3.01	2.70	1.98	2.39	1.38	2.55	1.47	2.08	3.24	2.82
9	2.81	1.64	3.00	2.77	2.19	3.20	1.39	2.48	1.46	1.98	3.38	2.96
10	2.76	1.65	2.90	2.76	2.31	3.05	1.37	2.37	1.40	1.92	3.44	3.28
11	2.70	1.51	2.48	2.74	2.30	3.27	1.38	2.25	1.32	1.97	2.95	3.26
12	2.65	1.27	1.96	2.72	2.24	3.21	1.32	2.10	1.31	2.07	1.98	3.23
13	2.57	1.24	1.85	2.77	2.20	3.15	1.33	2.01	1.27	2.04	1.47	3.20
14	2.45	1.22	2.11	2.91	2.16	3.06	1.23	1.92	1.24	2.04	1.28	3.21
15	2.33	1.31	2.13	2.97	2.09	3.02	1.06	1.81	1.22	2.22	1.23	3.18
16	2.24	1.34	1.99	2.96	2.07	2.98	1.01	1.75	1.15	2.34	1.96	3.16
17	2.13	1.39	2.33	2.97	2.34	2.95	1.08	1.68	1.06	2.44	2.63	3.22
18	1.94	1.32	2.65	3.02	2.81	2.85	1.20	1.62	.97	2.53	1.96	3.21
19	1.93	1.23	2.65	3.03	3.17	2.76	1.29	1.53	1.19	2.52	1.78	2.74
20	1.82	1.33	2.60	2.73	2.80	2.69	1.30	1.59	1.54	2.55	1.40	1.51
21	1.69	1.34	2.55	2.10	2.60	2.66	1.19	1.59	1.94	2.70	1.28	1.94
22	1.64	1.31	2.49	1.60	2.41	2.66	1.08	1.53	2.50	2.87	1.14	2.78
23	1.75	1.35	2.44	1.38	2.04	2.61	1.08	1.48	2.73	3.02	1.92	3.02
24	1.79	2.24	2.41	1.57	2.13	2.57	1.66	1.50	2.74	3.13	2.30	3.15
25	1.76	2.48	2.41	1.92	2.23	2.53	2.05	1.45	2.69	3.37	2.50	2.98
26	1.73	2.12	2.48	2.09	2.27	2.52	2.05	1.41	2.64	3.24	2.60	2.83
27	1.72	1.90	2.49	2.03	2.31	2.46	1.93	1.48	2.58	3.17	2.62	2.72
28	1.68	1.75	2.45	1.97	2.42	2.32	1.78	1.44	2.59	3.20	2.50	2.64
29	1.60	1.55	2.43	1.92	---	2.18	1.68	1.43	2.69	3.20	2.35	2.59
30	1.54	2.12	2.43	1.89	---	2.01	1.66	1.43	2.70	3.26	2.40	2.58
31	1.46	---	2.46	1.88	---	1.84	---	1.52	---	3.19	2.45	---
MEAN	2.28	1.56	2.53	2.44	2.24	2.73	1.45	1.82	1.76	2.59	2.42	2.82
MAX	3.08	2.48	3.01	3.03	3.17	3.27	2.05	2.63	2.74	3.37	3.44	3.28
MIN	1.46	1.22	1.85	1.38	1.88	1.84	1.01	1.41	.97	1.92	1.14	1.51

CAL YR 1977 MEAN 2.21 MAX 3.83 MIN .35
WTR YR 1978 MEAN 2.22 MAX 3.44 MIN .97

SOUTHERN FLORIDA

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

261642081334200 GOLDEN GATE CANAL NEAR SUNNILAND, FL

LOCATION.--Lat 26°16'42", long 81°33'42", in SW¼SW¼ sec.19, T.48 S., R.28 E., Hydrologic Unit 03090204, on left bank 50 ft (15 m) north of weir number 5, 200 ft (61 m) upstream from bridge on Randall Road, and 14 mi (23 km) northeast of Sunniland.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is about National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 111 ft³/s (3.14 m³/s) Aug. 20; maximum gage height, 7.30 ft (2.225 m) Aug. 20; minimum daily discharge, 1.7 ft³/s (0.048 m³/s) Apr. 13; minimum gage height, 4.47 ft (1.362 m) Apr. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	24	14	17	15	18	5.5	17	11	15	73	85
2	42	24	14	17	15	17	5.2	22	11	15	76	82
3	39	23	14	17	14	17	4.8	21	11	16	76	81
4	38	23	14	16	14	16	4.3	20	11	17	77	80
5	36	23	14	16	14	18	4.2	22	11	17	78	79
6	35	22	14	16	14	16	4.0	21	11	17	83	77
7	34	22	18	16	14	16	3.5	21	11	19	89	75
8	33	22	18	16	14	15	3.2	21	11	24	91	81
9	32	21	17	16	14	18	3.0	21	11	26	91	85
10	31	21	16	16	14	24	2.5	21	11	27	90	83
11	31	20	16	17	14	25	2.0	20	10	27	90	89
12	30	20	16	16	14	20	1.8	19	11	27	89	89
13	29	19	15	16	13	12	1.7	18	10	27	102	85
14	29	19	15	16	13	11	1.8	18	9.9	27	100	81
15	28	18	14	16	12	10	2.0	17	9.6	30	97	78
16	28	18	14	16	12	9.9	2.1	16	9.2	36	94	77
17	31	17	14	16	12	9.4	4.2	15	8.9	39	88	75
18	31	17	13	17	12	8.7	7.7	15	8.7	40	91	72
19	30	16	13	17	18	8.7	7.7	14	8.5	42	97	69
20	29	16	14	19	20	8.5	7.3	13	8.2	56	111	66
21	28	15	15	20	20	8.2	7.7	13	8.6	65	109	64
22	28	15	16	20	20	8.1	7.0	12	10	65	103	61
23	28	14	17	19	19	7.5	6.4	12	9.5	63	98	59
24	27	16	18	18	18	7.3	7.3	11	9.3	60	92	58
25	27	16	17	18	18	7.2	10	11	9.5	56	99	57
26	26	16	18	17	18	6.9	12	12	11	55	98	56
27	26	15	18	17	18	6.9	19	11	12	53	95	54
28	25	15	18	16	18	6.6	19	11	13	51	90	52
29	25	15	17	16	---	6.4	18	11	14	50	86	51
30	25	15	17	16	---	6.2	16	10	14	53	85	50
31	25	---	17	15	---	5.7	---	11	---	66	86	---
TOTAL	950	557	485	521	431	375.2	200.9	497	314.9	1181	2824	2151
MEAN	30.6	18.6	15.6	16.8	15.4	12.1	6.70	16.0	10.5	38.1	91.1	71.7
MAX	44	24	18	20	20	25	19	22	14	66	111	89
MIN	25	14	13	15	12	5.7	1.7	10	8.2	15	73	50
AC-FT	1880	1100	962	1030	855	744	398	986	625	2340	5600	4270

WTR YR 1978 TOTAL 10488.0 MEAN 28.7 MAX 111 MIN 1.7 AC-FT 20800

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

261642081334200 GOLDEN GATE CANAL NEAR SUNNILAND, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.62	5.07	4.90	4.97	4.93	4.99	4.64	4.82	4.81	4.91	6.34	6.62
2	5.58	5.07	4.90	4.97	4.92	4.98	4.64	4.97	4.81	4.92	6.40	6.56
3	5.51	5.06	4.89	4.97	4.91	4.97	4.62	4.96	4.82	4.93	6.41	6.51
4	5.47	5.06	4.84	4.96	4.90	4.96	4.61	4.95	4.82	4.96	6.43	6.49
5	5.43	5.05	4.83	4.96	4.90	4.97	4.60	4.99	4.82	4.97	6.44	6.48
6	5.40	5.04	4.81	4.95	4.90	4.96	4.59	4.98	4.81	4.97	6.58	6.44
7	5.38	5.03	4.80	4.95	4.89	4.95	4.57	4.99	4.81	5.01	6.73	6.40
8	5.35	5.03	4.79	4.95	4.89	4.93	4.56	4.98	4.81	5.12	6.77	6.54
9	5.33	5.02	4.83	4.95	4.90	4.92	4.55	4.98	4.82	5.19	6.78	6.61
10	5.31	5.02	4.87	4.94	4.91	4.99	4.53	4.98	4.81	5.21	6.74	6.57
11	5.30	5.01	4.90	4.94	4.90	5.15	4.51	4.98	4.80	5.21	6.73	6.71
12	5.28	4.99	4.94	4.95	4.89	5.03	4.50	4.97	4.81	5.21	6.97	6.73
13	5.27	4.98	4.93	4.95	4.88	4.83	4.49	4.96	4.80	5.20	7.06	6.63
14	5.25	4.98	4.92	4.96	4.87	4.81	4.50	4.95	4.79	5.20	7.01	6.53
15	5.24	4.97	4.91	4.95	4.86	4.80	4.51	4.94	4.78	5.28	6.92	6.45
16	5.22	4.96	5.00	4.96	4.87	4.79	4.51	4.92	4.77	5.42	6.83	6.42
17	5.21	4.95	5.05	4.97	4.86	4.77	4.60	4.91	4.76	5.51	6.71	6.37
18	5.19	4.95	5.10	4.98	4.86	4.75	4.71	4.90	4.75	5.53	6.78	6.30
19	5.18	4.93	5.15	4.99	5.00	4.75	4.70	4.89	4.75	5.57	6.93	6.23
20	5.15	4.92	5.15	5.03	5.07	4.74	4.68	4.88	4.74	5.92	7.26	6.16
21	5.13	4.91	5.12	5.06	5.05	4.74	4.68	4.87	4.75	6.13	7.23	6.10
22	5.13	4.90	5.10	5.04	5.03	4.73	4.65	4.85	4.80	6.14	7.08	6.04
23	5.13	4.90	5.08	5.02	5.02	4.72	4.62	4.83	4.77	6.08	6.96	5.99
24	5.12	4.96	5.07	5.00	5.01	4.71	4.65	4.82	4.77	6.01	6.99	5.95
25	5.11	4.94	5.05	4.99	5.00	4.71	4.72	4.83	4.77	5.92	6.98	5.93
26	5.11	4.94	5.04	4.98	5.00	4.70	4.77	4.84	4.81	5.88	6.93	5.90
27	5.10	4.92	5.02	4.97	4.99	4.70	4.93	4.82	4.84	5.83	6.85	5.85
28	5.09	4.92	5.01	4.96	4.99	4.68	4.93	4.82	4.86	5.79	6.75	5.80
29	5.08	4.92	5.00	4.95	---	4.68	4.90	4.81	4.88	5.77	6.65	5.77
30	5.08	4.91	4.98	4.94	---	4.67	4.85	4.80	4.90	5.85	6.62	5.74
31	5.09	---	4.98	4.93	---	4.65	---	4.81	---	6.15	6.65	---
MEAN	5.25	4.98	4.97	4.97	4.94	4.83	4.64	4.90	4.80	5.48	6.79	6.29
MAX	5.62	5.07	5.15	5.06	5.07	5.15	4.93	4.99	4.90	6.15	7.26	6.73
MIN	5.08	4.90	4.79	4.93	4.86	4.65	4.49	4.80	4.74	4.91	6.34	5.74

WTR YR 1978 MEAN 5.24 MAX 7.26 MIN 4.49

SOUTHERN FLORIDA

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

261148081401700 GOLDEN GATE CANAL NEAR NAPLES, FL

LOCATION.--Lat 26°11'48", long 81°40'17", in SW¼SW¼ sec.13, T.49 S., R.26 E., Hydrologic Unit 03090204, at end of 17th Avenue S.W., on right bank, 100 ft (30 m) north of weir number 1, 1 mi (2 km) east of State Highway 858, and 9 mi (14 km) northeast of Naples.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is about National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 648 ft³/s (18.4 m³/s) Aug. 18; maximum gage height, 4.91 ft (1.497 m) Aug. 18; minimum daily discharge, 52 ft³/s (1.47 m³/s) Apr. 19-23; minimum gage height, 3.48 ft (1.061 m) Apr. 18-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	280	88	57	69	83	111	134	63	54	132	303	500
2	280	82	55	68	77	105	116	61	56	135	341	417
3	265	80	54	67	75	101	110	57	63	128	379	390
4	255	79	53	66	74	109	98	58	66	125	494	368
5	250	80	53	66	71	110	116	74	67	122	456	346
6	240	76	55	65	67	107	131	91	67	134	593	307
7	222	76	56	67	67	109	131	99	73	175	538	280
8	218	75	55	64	69	100	116	97	74	182	472	268
9	214	72	55	63	67	206	104	94	72	182	489	275
10	206	68	65	62	68	401	89	89	71	178	472	270
11	190	67	71	63	67	356	83	86	73	187	500	291
12	178	66	75	63	66	307	75	78	78	187	632	296
13	171	64	76	65	63	274	67	75	79	187	577	280
14	160	63	77	68	60	245	59	70	77	187	516	260
15	153	61	78	65	61	224	55	64	76	212	478	255
16	146	59	76	67	60	206	52	61	74	300	445	280
17	137	58	80	68	63	194	58	59	71	261	461	270
18	131	57	81	74	83	183	53	62	70	234	648	250
19	124	56	80	75	150	172	52	63	75	227	571	230
20	117	55	76	80	163	165	52	62	115	311	577	218
21	115	54	75	86	161	162	52	57	125	343	522	206
22	110	54	73	89	152	158	52	54	144	314	461	198
23	107	53	70	92	143	162	52	53	145	285	445	183
24	104	61	74	92	139	176	57	53	130	261	527	172
25	97	62	79	89	134	190	69	53	122	240	494	169
26	93	64	78	87	127	190	72	53	125	234	450	155
27	91	63	74	84	125	172	74	53	119	224	395	152
28	88	59	72	81	117	165	71	53	121	215	395	146
29	86	58	70	81	---	155	70	53	127	219	395	143
30	87	62	70	86	---	146	68	53	133	224	445	140
31	90	---	69	85	---	140	---	53	---	281	555	---
TOTAL	5005	1972	2132	2297	2652	5601	2388	2051	2742	6626	15026	7715
MEAN	161	65.7	68.8	74.1	94.7	181	79.6	66.2	91.4	214	485	257
MAX	280	88	81	92	163	401	134	99	145	343	648	500
MIN	86	53	53	62	60	100	52	53	54	122	303	140
AC-FT	9930	3910	4230	4560	5260	11110	4740	4070	5440	13140	29800	15300

WTR YR 1978 TOTAL 56207 MEAN 154 MAX 648 MIN 52 AC-FT 111500

SOUTHERN FLORIDA

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BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

261148081401700 GOLDEN GATE CANAL NEAR NAPLES, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.20	3.66	3.51	3.57	3.64	3.74	3.83	3.54	3.49	3.83	4.24	4.60
2	4.20	3.64	3.50	3.57	3.63	3.73	3.77	3.53	3.50	3.83	4.31	4.45
3	4.17	3.63	3.50	3.56	3.60	3.72	3.75	3.51	3.54	3.81	4.38	4.40
4	4.15	3.62	3.49	3.55	3.59	3.75	3.71	3.52	3.56	3.80	4.59	4.36
5	4.14	3.63	3.49	3.55	3.58	3.75	3.77	3.59	3.56	3.79	4.52	4.32
6	4.12	3.60	3.50	3.55	3.56	3.74	3.82	3.68	3.56	3.83	4.77	4.25
7	4.09	3.61	3.50	3.56	3.56	3.75	3.82	3.71	3.59	3.96	4.67	4.20
8	4.07	3.60	3.50	3.54	3.57	3.72	3.77	3.70	3.59	3.98	4.55	4.17
9	4.06	3.59	3.50	3.54	3.56	4.04	3.73	3.69	3.59	3.98	4.58	4.19
10	4.04	3.56	3.55	3.54	3.56	4.42	3.67	3.67	3.58	3.99	4.55	4.18
11	4.00	3.56	3.58	3.54	3.56	4.34	3.64	3.65	3.59	3.99	4.60	4.22
12	3.96	3.55	3.60	3.54	3.55	4.25	3.60	3.62	3.62	3.99	4.84	4.23
13	3.95	3.55	3.61	3.55	3.54	4.19	3.56	3.60	3.62	3.99	4.74	4.20
14	3.91	3.54	3.61	3.56	3.53	4.13	3.52	3.57	3.61	3.99	4.63	4.16
15	3.89	3.53	3.61	3.55	3.53	4.08	3.50	3.55	3.61	4.06	4.56	4.15
16	3.87	3.52	3.60	3.56	3.52	4.04	3.48	3.53	3.60	4.24	4.50	4.20
17	3.84	3.51	3.63	3.57	3.54	4.01	3.52	3.52	3.58	4.16	4.53	4.18
18	3.82	3.51	3.63	3.60	3.64	3.98	3.48	3.53	3.58	4.11	4.87	4.14
19	3.79	3.50	3.63	3.60	3.88	3.95	3.48	3.54	3.60	4.09	4.73	4.10
20	3.77	3.50	3.60	3.63	3.92	3.93	3.48	3.54	3.77	4.26	4.74	4.07
21	3.77	3.49	3.60	3.65	3.92	3.92	3.48	3.51	3.80	4.32	4.64	4.04
22	3.75	3.49	3.59	3.67	3.89	3.91	3.48	3.49	3.86	4.26	4.53	4.02
23	3.74	3.49	3.58	3.68	3.86	3.92	3.48	3.49	3.87	4.21	4.50	3.98
24	3.73	3.53	3.59	3.68	3.85	3.96	3.51	3.49	3.82	4.16	4.65	3.95
25	3.71	3.54	3.62	3.67	3.83	4.00	3.56	3.49	3.79	4.12	4.59	3.94
26	3.69	3.54	3.61	3.66	3.81	4.00	3.58	3.49	3.80	4.10	4.51	3.90
27	3.68	3.54	3.60	3.64	3.80	3.95	3.60	3.49	3.78	4.08	4.49	3.89
28	3.66	3.52	3.59	3.63	3.77	3.93	3.58	3.49	3.79	4.06	4.49	3.87
29	3.66	3.52	3.58	3.63	---	3.90	3.58	3.49	3.81	4.07	4.49	3.86
30	3.66	3.54	3.57	3.66	---	3.87	3.56	3.49	3.83	4.08	4.50	3.85
31	3.68	---	3.57	3.65	---	3.85	---	3.49	---	4.20	4.70	---
MEAN	3.90	3.55	3.57	3.60	3.67	3.95	3.61	3.55	3.66	4.04	4.58	4.14
MAX	4.20	3.66	3.63	3.68	3.92	4.42	3.83	3.71	3.87	4.32	4.87	4.60
MIN	3.66	3.49	3.49	3.54	3.52	3.72	3.48	3.49	3.49	3.79	4.24	3.85

WTR YR 1978 MEAN 3.82 MAX 4.87 MIN 3.48

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02291300 GOLDEN GATE CANAL AT NAPLES, FL

LOCATION.--Lat 26°10'01", long 81°46'02", in NE¼ sec.35, T.49 S., R.25 E., Collier County, Hydrologic Unit 03090204, near right bank on downstream side of bridge on Airport Road, 0.5 mi (0.8 km) upstream from dam, 1.4 mi (2.3 km) upstream from Gordon River, and 1.5 mi (2.4 km) east of Naples city limits.

DRAINAGE AREA.--Indeterminate.

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is National Geodetic Vertical Datum of 1929 (State Department of Transportation bench mark).

REMARKS.--Records fair.

AVERAGE DISCHARGE.--14 years, 326 ft³/s (9.23 m³/s), 236,000 acre-ft/yr (291 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,460 ft³/s (98.0 m³/s) Sept. 14, 1971, gage height, 7.14 ft (2.176 m); no flow for many days in 1975; minimum gage height, -0.04 ft (0.012 m) Jan. 2, 1969 (tide affected).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 868 ft³/s (24.6 m³/s) Aug. 6; gage height, 4.88 ft (1.487 m) Mar. 9; no flow Nov. 16-20; minimum gage height, 2.51 ft (0.765 m) Nov. 20, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	542	107	68	82	93	142	124	87	112	350	520	683
2	519	102	60	97	89	133	113	89	125	345	583	662
3	475	98	55	91	88	150	113	108	149	335	649	611
4	449	102	55	73	88	194	108	89	160	340	716	568
5	404	95	58	70	89	158	106	111	163	350	780	553
6	361	85	83	72	77	135	105	161	205	375	868	526
7	347	85	81	83	75	138	101	171	245	375	796	490
8	335	82	61	80	90	149	97	169	280	395	709	469
9	316	80	79	84	87	737	92	157	325	400	748	469
10	300	31	123	73	77	785	109	143	335	405	708	430
11	281	2.4	103	75	76	655	98	136	345	405	715	503
12	261	2.2	97	84	76	523	74	121	355	410	842	517
13	235	1.9	98	100	80	467	51	113	350	410	779	465
14	221	1.7	116	102	65	380	48	108	335	415	728	421
15	214	.89	101	95	63	349	63	99	315	457	700	449
16	203	.00	104	98	77	336	71	96	340	555	691	588
17	192	.00	165	104	98	305	60	95	315	513	759	582
18	187	.00	147	107	178	251	54	97	315	464	855	525
19	177	.00	112	108	283	231	49	111	330	420	753	467
20	176	.00	104	147	290	219	48	117	335	478	704	420
21	170	.00	102	123	255	209	46	113	360	576	648	364
22	169	24	99	114	201	197	44	103	380	534	567	343
23	156	30	95	119	195	181	46	92	370	499	592	331
24	147	86	104	121	184	173	95	87	355	464	769	322
25	140	71	104	118	167	173	121	87	345	440	693	356
26	133	57	109	122	157	162	106	92	325	415	601	304
27	126	48	88	111	152	149	91	100	315	405	519	277
28	117	47	85	105	182	144	95	102	320	400	481	264
29	112	54	91	100	---	138	98	101	330	400	450	257
30	108	73	91	96	---	137	98	95	340	425	543	243
31	111	---	81	96	---	134	---	108	---	457	700	---
TOTAL	7684	1366.09	2919	3050	3632	8234	2524	3458	8874	13212	21166	13459
MEAN	248	45.5	94.2	98.4	130	266	84.1	112	296	426	683	449
MAX	542	107	165	147	290	785	124	171	380	576	868	683
MIN	108	.00	55	70	63	133	44	87	112	335	450	243
AC-FT	15240	2710	5790	6050	7200	16330	5010	6860	17600	26210	41980	26700

CAL YR 1977 TOTAL 101099.43 MEAN 277 MAX 1500 MIN .00 AC-FT 200500
WTR YR 1978 TOTAL 89578.09 MEAN 245 MAX 868 MIN .00 AC-FT 177700

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02291300 GOLDEN GATE CANAL AT NAPLES, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.55	2.74	3.49	3.54	3.58	3.75	3.68	3.54	3.62	3.83	4.27	4.61
2	3.52	2.72	3.47	3.59	3.56	3.72	3.64	3.55	3.65	3.82	4.36	4.58
3	3.45	2.71	3.45	3.57	3.56	3.77	3.64	3.08	3.72	3.81	4.45	4.52
4	3.41	2.72	3.44	3.51	3.56	3.89	3.62	2.93	3.74	3.82	4.54	4.46
5	3.35	2.69	3.46	3.50	3.57	3.79	3.61	3.62	3.74	3.85	4.63	4.44
6	3.30	2.67	3.54	3.51	3.52	3.73	3.61	3.75	3.77	3.90	4.74	4.40
7	3.28	2.66	3.54	3.55	3.52	3.74	3.59	3.81	3.80	3.91	4.65	4.34
8	3.26	2.65	3.47	3.54	3.57	3.76	3.58	3.81	3.85	3.95	4.56	4.31
9	3.23	2.65	3.53	3.55	3.56	4.69	3.57	3.77	3.93	3.97	4.60	4.31
10	3.21	2.98	3.69	3.51	3.53	4.76	3.11	3.73	3.94	3.98	4.52	4.26
11	3.17	3.39	3.61	3.52	3.52	4.59	2.68	3.71	3.95	3.99	4.55	4.36
12	3.14	3.38	3.59	3.55	3.52	4.41	2.81	3.66	3.96	4.00	4.72	4.39
13	3.09	3.37	3.60	3.60	3.54	4.33	3.42	3.63	3.94	4.01	4.66	4.30
14	3.06	3.37	3.66	3.61	3.48	4.21	3.41	3.61	3.90	4.02	4.59	4.25
15	3.04	3.17	3.61	3.59	3.48	4.17	3.47	3.58	3.85	4.10	4.55	4.29
16	3.02	2.58	3.62	3.60	3.52	4.14	3.49	3.57	3.89	4.25	4.55	4.49
17	2.99	2.56	3.81	3.62	3.60	4.09	3.45	3.56	3.83	4.19	4.64	4.48
18	2.97	2.55	3.76	3.63	3.82	4.00	3.42	3.56	3.82	4.13	4.77	4.40
19	2.96	2.54	3.65	3.63	4.07	3.96	3.40	3.61	3.81	4.05	4.64	4.31
20	2.95	2.53	3.62	3.76	4.08	3.93	3.39	3.64	3.75	4.17	4.59	4.24
21	2.94	2.82	3.61	3.69	4.01	3.91	3.38	3.62	3.80	4.30	4.52	4.17
22	2.94	3.07	3.60	3.66	3.90	3.88	3.38	3.58	3.85	4.25	4.42	4.14
23	2.90	3.30	3.59	3.67	3.89	3.85	3.38	3.55	3.83	4.20	4.45	4.12
24	2.87	3.55	3.62	3.68	3.86	3.83	3.57	3.53	3.81	4.16	4.69	4.11
25	2.85	3.50	3.62	3.67	3.82	3.83	3.66	3.53	3.79	4.12	4.60	4.16
26	2.83	3.45	3.63	3.68	3.79	3.80	3.37	3.55	3.76	4.08	4.47	4.08
27	2.81	3.42	3.56	3.64	3.78	3.76	3.55	3.57	3.74	4.06	4.37	4.04
28	2.78	3.41	3.55	3.62	3.73	3.75	3.57	3.58	3.76	4.05	4.31	4.01
29	2.76	3.43	3.57	3.60	---	3.73	3.58	3.57	3.78	4.06	4.27	4.00
30	2.74	3.51	3.57	3.59	---	3.72	3.57	3.56	3.80	4.11	4.41	3.97
31	2.75	---	3.54	3.59	---	3.71	---	3.60	---	4.17	4.63	---
MEAN	3.07	3.00	3.58	3.60	3.68	3.97	3.45	3.58	3.81	4.04	4.54	4.28
MAX	3.55	3.55	3.81	3.76	4.08	4.76	3.68	3.81	3.96	4.30	4.77	4.61
MIN	2.74	2.53	3.44	3.50	3.48	3.71	2.68	2.93	3.62	3.81	4.27	3.97

CAL YR 1977 MEAN 3.43 MAX 4.57 MIN 1.88
WTR YR 1978 MEAN 3.72 MAX 4.77 MIN 2.53

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02291393 COCHATCHEE RIVER CANAL NEAR NAPLES PARK, FL

LOCATION.--Lat 26°16'21", long 81°45'53", in SW¼ sec.24, T.48 S., R.25 E., Collier County, Hydrologic Unit 03090204, near center span on downstream side of Willoughby Acres bridge, 2.3 mi (3.7 km) east of intersection of U.S. Highway 41 and State Highway 846 at Naples Park.

DRAINAGE AREA.--Indeterminate.

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

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Collier County bench mark).

REMARKS.--Records fair.

AVERAGE DISCHARGE.--10 years, 30.0 ft³/s (0.85 m³/s), 21,720 acre-ft/yr (26.8 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 542 ft³/s (15.3 m³/s) Aug. 31, 1973, gage height, 9.19 ft (2.801 m); no flow for many days in 1971, 1974; minimum gage height, 2.01 ft (0.613 m) Mar. 9, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 217 ft³/s (6.14 m³/s) Aug. 6; gage height, 6.77 ft (2.063 m); minimum discharge, 0.65 ft³/s (0.02 m³/s) May 31; minimum gage height, 3.03 ft (0.924 m) Feb. 6, 8, 11-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	17	2.0	5.8	2.6	12	7.9	7.5	1.0	28	96	99
2	52	17	1.9	5.5	2.8	11	7.7	7.0	1.7	21	110	98
3	46	16	1.9	5.5	2.8	16	7.5	6.7	2.4	16	142	131
4	45	16	1.8	5.4	2.7	19	7.5	7.2	4.6	12	142	134
5	41	17	1.8	5.2	2.7	15	7.4	11	4.1	10	148	108
6	38	16	2.9	4.8	2.6	14	7.6	15	3.2	8.4	191	128
7	36	15	5.2	4.6	2.6	14	7.6	14	2.4	7.4	188	117
8	33	15	2.8	4.3	2.7	14	7.3	13	4.7	7.3	181	102
9	31	14	8.6	4.3	4.4	44	6.3	12	12	9.1	182	103
10	29	12	19	4.6	3.0	23	6.4	10	11	7.0	173	89
11	28	6.5	16	5.4	2.6	14	6.0	9.2	8.4	11	175	83
12	26	5.2	13	4.3	2.6	11	6.2	8.2	7.3	19	185	77
13	25	4.6	12	5.4	2.6	9.8	6.2	7.4	8.4	26	192	66
14	23	4.2	10	5.4	2.6	9.2	6.2	6.9	8.5	20	178	58
15	22	3.8	9.8	5.4	2.6	8.8	4.9	6.4	6.7	19	170	50
16	21	3.4	9.6	5.2	3.0	9.0	4.9	6.1	5.1	35	155	49
17	21	3.2	9.6	5.2	6.3	8.2	4.8	5.7	4.2	101	154	43
18	20	3.0	13	5.0	16	7.6	4.6	5.3	3.2	133	152	41
19	21	2.7	14	5.0	23	7.2	4.9	4.9	2.8	107	153	39
20	21	2.6	11	5.0	18	7.4	5.1	5.6	4.1	94	144	39
21	20	2.3	9.8	5.4	17	7.5	4.3	4.2	14	82	145	33
22	19	2.1	9.8	7.4	15	7.4	3.9	4.0	21	99	141	31
23	19	2.0	7.4	9.8	13	7.7	3.5	3.7	28	93	129	29
24	20	3.7	10	5.4	13	7.6	10	3.2	23	81	117	27
25	20	3.0	7.8	4.6	13	8.3	13	2.8	15	77	102	30
26	20	3.2	7.4	4.3	12	8.4	12	2.6	11	73	94	28
27	20	2.6	7.2	3.9	12	8.1	11	2.7	22	67	122	24
28	19	2.2	6.8	3.6	12	8.1	9.5	1.9	18	75	149	20
29	18	2.3	6.6	3.4	---	8.0	8.8	1.1	13	85	149	20
30	18	2.2	6.4	3.2	---	8.1	8.1	.97	32	79	136	19
31	17	---	6.1	3.1	---	8.0	---	.85	---	89	117	---
TOTAL	845	219.8	251.2	155.4	215.2	361.4	211.1	197.12	302.8	1591.2	4612	1915
MEAN	27.3	7.33	8.10	5.01	7.69	11.7	7.04	6.36	10.1	51.3	149	63.8
MAX	56	17	19	9.8	23	44	13	15	32	133	192	134
MIN	17	2.0	1.8	3.1	2.6	7.2	3.5	.85	1.0	7.0	94	19
AC-FT	1680	436	498	308	427	717	419	391	601	3160	9150	3800

CAL YR 1977 TOTAL 7798.21 MEAN 21.4 MAX 166 MIN .66 AC-FT 15470
WTR YR 1978 TOTAL 10877.22 MEAN 29.8 MAX 192 MIN .85 AC-FT 21570

BIG CYPRESS SWAMP AND SOUTHWESTERN COASTAL AREA

02291393 COCOHATCHEE RIVER CANAL NEAR NAPLES PARK, FL

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.24	4.16	3.34	3.28	3.05	3.60	4.32	4.40	3.77	5.05	5.55	5.59
2	5.15	4.16	3.32	3.26	3.06	3.58	4.32	4.37	3.90	4.85	5.73	5.58
3	5.04	4.14	3.30	3.26	3.06	3.75	4.31	4.35	4.01	4.71	6.11	5.98
4	5.00	4.13	3.29	3.25	3.05	3.89	4.31	4.38	4.22	4.60	6.12	6.03
5	4.92	4.16	3.30	3.24	3.04	3.76	4.31	4.56	4.18	4.52	6.19	5.71
6	4.83	4.12	3.41	3.21	3.04	3.70	4.32	4.68	4.10	4.45	6.60	5.96
7	4.77	4.10	3.62	3.20	3.03	3.70	4.33	4.67	4.03	4.40	6.58	5.83
8	4.71	4.08	3.43	3.18	3.04	3.70	4.31	4.62	4.19	4.39	6.52	5.63
9	4.64	4.07	3.45	3.18	3.19	5.08	4.26	4.58	4.57	4.49	6.52	5.64
10	4.60	3.96	3.90	3.20	3.08	4.80	4.26	4.53	4.55	4.37	6.44	5.47
11	4.55	3.68	3.78	3.25	3.04	4.55	4.25	4.49	4.45	4.53	6.45	5.38
12	4.50	3.60	3.67	3.18	3.03	4.41	4.26	4.44	4.39	4.79	6.55	5.29
13	4.45	3.56	3.59	3.15	3.04	4.36	4.26	4.40	4.45	4.99	6.61	5.12
14	4.41	3.53	3.52	3.15	3.04	4.34	4.26	4.37	4.45	4.84	6.49	5.00
15	4.37	3.50	3.51	3.15	3.04	4.32	4.19	4.34	4.35	4.81	6.41	4.85
16	4.35	3.47	3.50	3.14	3.07	4.33	4.19	4.32	4.26	5.19	6.26	4.83
17	4.32	3.45	3.64	3.14	3.32	4.30	4.18	4.29	4.19	5.78	6.25	4.71
18	4.30	3.43	3.72	3.13	3.72	4.26	4.18	4.27	4.10	6.02	6.23	4.65
19	4.28	3.41	3.58	3.13	4.04	4.24	4.20	4.24	4.06	5.69	6.24	4.61
20	4.27	3.39	3.51	3.13	3.86	4.26	4.21	4.27	4.16	5.52	6.14	4.62
21	4.25	3.36	3.50	3.25	3.84	4.27	4.17	4.19	4.49	5.36	6.15	4.45
22	4.24	3.33	3.48	3.38	3.75	4.27	4.14	4.17	4.87	5.59	6.11	4.39
23	4.24	3.33	3.45	3.50	3.64	4.28	4.10	4.15	5.04	5.51	5.97	4.33
24	4.24	3.50	3.43	3.25	3.66	4.28	4.45	4.11	4.91	5.34	5.83	4.28
25	4.26	3.44	3.40	3.20	3.64	4.32	4.62	4.07	4.68	5.29	5.63	4.38
26	4.25	3.47	3.38	3.18	3.62	4.33	4.57	4.04	4.55	5.23	5.53	4.30
27	4.24	3.40	3.37	3.15	3.61	4.32	4.52	4.05	4.88	5.13	5.88	4.17
28	4.23	3.36	3.35	3.12	3.60	4.32	4.49	3.93	4.77	5.26	6.20	4.02
29	4.20	3.36	3.33	3.10	---	4.32	4.46	3.78	4.63	5.40	6.20	4.02
30	4.20	3.36	3.32	3.08	---	4.33	4.42	3.76	5.13	5.32	6.06	4.01
31	4.18	---	3.30	3.07	---	4.33	---	3.74	---	5.45	5.83	---
MEAN	4.49	3.67	3.47	3.20	3.33	4.20	4.31	4.28	4.41	5.06	6.17	4.96
MAX	5.24	4.16	3.90	3.50	4.04	5.08	4.62	4.68	5.13	6.02	6.61	6.03
MIN	4.18	3.33	3.29	3.07	3.03	3.58	4.10	3.74	3.77	4.37	5.53	4.01

CAL YR 1977 MEAN 3.94 MAX 6.80 MIN 2.68
WTR YR 1978 MEAN 4.30 MAX 6.61 MIN 3.03

CALOOSAHATCHEE RIVER

02292000 CALOOSAHATCHEE CANAL AT MOORE HAVEN, FL

LOCATION.--Lat 26°50'30", long 81°05'20", in sec.12, T.42 S., R.32 E., Glades County, Hydrologic Unit 03090205, in control house of control structure 77 at Lake Okeechobee outlet, and 15 mi (24 km) 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 Corps of Engineers). Prior to Jan. 17, 1952, at site 0.5 mi (0.8 km) downstream, at datum 1.44 ft (0.439 m) lower. Jan. 17, 1952, to Sept. 30, 1966, at site 0.5 mi (0.8 km) downstream at present datum. October 1938 to September 1966, auxiliary water-stage recorder 0.25 mi (0.41 km) upstream from Lake Hicpochee and 3.0 mi (4.8 km) downstream.

REMARKS.--Flow regulated by operation of control structure 77 at Lake Okeechobee.

COOPERATION.--Gate-opening record furnished by Corps of Engineers.

AVERAGE DISCHARGE.--40 years, 945 ft³/s (26.8 ft³/s), 684,200 acre-ft/yr (844 hm³/yr).

EXTREMES FOR PERIOD OF RECORD: Maximum daily discharge, 8,290 ft³/s (235 m³/s) Apr. 10, 11, 1970; maximum gage height, 17.00 ft (5.182 m) Oct. 31, 1969; maximum daily reverse flow, 2,010 ft³/s (56.9 m³/s) June 26, 1974; lock closed and flow consists of leakage and lockage estimated as 5.0 ft³/s (0.142 m³/s) during several periods in each year; minimum gage height, 5.8 ft (1.77 m) present datum, estimated Aug. 8, 1940.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 4,740 ft³/s (134 m³/s) Aug. 24; maximum gage height, 16.85 ft (5.136 m) Sept. 19; lock closed and flow consists of leakage and lockage estimated as 5.0 ft³/s (0.142 m³/s) for many days; minimum gage height, 13.05 ft (3.978 m) Oct. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	182	5.0	5.0	5.0	5.0	187	5.0	5.0	5.0	5.0	5.0
2	5.0	180	5.0	5.0	5.0	5.0	184	60	5.0	5.0	5.0	5.0
3	5.0	183	5.0	5.0	5.0	5.0	182	327	5.0	5.0	5.0	5.0
4	5.0	46	5.0	5.0	5.0	5.0	179	371	5.0	5.0	5.0	5.0
5	5.0	5.0	5.0	5.0	5.0	5.0	178	108	5.0	5.0	5.0	5.0
6	5.0	5.0	5.0	5.0	5.0	5.0	185	5.0	5.0	5.0	5.0	5.0
7	5.0	5.0	5.0	5.0	107	5.0	224	5.0	5.0	5.0	5.0	5.0
8	5.0	5.0	5.0	5.0	145	5.0	381	5.0	5.0	5.0	1750	5.0
9	5.0	5.0	5.0	5.0	5.0	5.0	371	5.0	5.0	5.0	4490	5.0
10	5.0	5.0	5.0	5.0	5.0	5.0	360	5.0	5.0	5.0	2430	5.0
11	5.0	5.0	5.0	72	5.0	5.0	353	5.0	5.0	5.0	1460	5.0
12	5.0	5.0	5.0	166	5.0	5.0	353	5.0	5.0	5.0	4370	1330
13	5.0	96	5.0	65	5.0	5.0	358	5.0	5.0	5.0	4390	4410
14	5.0	224	5.0	5.0	5.0	5.0	497	5.0	5.0	5.0	4470	4400
15	5.0	226	5.0	5.0	5.0	5.0	559	5.0	5.0	5.0	4510	2380
16	169	331	5.0	5.0	5.0	5.0	553	46	5.0	5.0	4600	5.0
17	227	371	5.0	5.0	5.0	5.0	545	163	5.0	5.0	4620	5.0
18	222	315	5.0	5.0	5.0	5.0	384	5.0	5.0	5.0	4680	5.0
19	328	175	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4610	5.0
20	366	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4440	5.0
21	371	5.0	5.0	5.0	5.0	5.0	50	5.0	5.0	5.0	4500	5.0
22	370	101	5.0	5.0	5.0	5.0	537	5.0	5.0	5.0	4600	5.0
23	349	298	5.0	5.0	5.0	132	517	5.0	5.0	5.0	4690	5.0
24	342	210	5.0	5.0	5.0	195	128	5.0	5.0	5.0	4740	5.0
25	109	44	5.0	5.0	5.0	192	5.0	240	5.0	5.0	4730	5.0
26	5.0	5.0	5.0	5.0	5.0	184	5.0	260	5.0	5.0	4660	5.0
27	144	5.0	5.0	5.0	5.0	180	5.0	5.0	5.0	5.0	4670	5.0
28	210	5.0	5.0	5.0	5.0	182	5.0	5.0	5.0	5.0	4730	5.0
29	211	5.0	5.0	5.0	---	186	5.0	5.0	5.0	5.0	2800	5.0
30	204	5.0	5.0	5.0	---	187	5.0	5.0	5.0	5.0	5.0	5.0
31	196	---	5.0	5.0	---	188	---	5.0	---	5.0	5.0	---
TOTAL	3898.0	3057.0	155.0	443.0	382.0	1736.0	7305.0	1690.0	150.0	155.0	90985.0	12650.0
MEAN	126	102	5.00	14.3	13.6	56.0	244	54.5	5.00	5.00	2935	422
MAX	371	371	5.0	166	145	195	559	371	5.0	5.0	4740	4410
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	7730	6060	307	879	758	3440	14490	3350	298	307	180500	25090

CAL YR 1977 TOTAL 70506.0 MEAN 193 MAX 4550 MIN 5.0 AC-FT 139800
WTR YR 1978 TOTAL 122606.0 MEAN 336 MAX 4740 MIN 5.0 AC-FT 243200

SOUTHERN FLORIDA

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CALOOSAHATCHEE RIVER

02292480 CALOOSAHATCHEE CANAL AT ORTONA LOCK NEAR LA BELLE, FL

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 (152 m) upstream from Ortona Lock, 1.4 mi (2.3 km) downstream from Long Hammock Creek, and 9.0 mi (14.5 km) east of La Belle.

DRAINAGE. AREA.--Indeterminate.

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.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. (levels by Corps of Engineers).

REMARKS.--Flow regulated by operation of control structures 77 and 78.

COOPERATION.--Gate-opening record furnished by Corps of Engineers.

AVERAGE DISCHARGE.--7 years, 510 ft³/s (14.4 m³/s), 369,200 acre-ft/yr (455 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 9,720 ft³/s (275 m³/s) Aug. 8, 1974; maximum gage height, 12.80 ft (3.901 m) June 26, 1974; no flow for a few days in some years; minimum gage height, 9.59 ft (2.923 m) Aug. 24, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 66.00 ft³/s (187 m³/s) Aug. 21; maximum gage height, 12.02 ft (3.664 m) May 6; minimum daily discharge, 1.8 ft³/s (0.051 m³/s) Oct 3; minimum gage height, 10.58 ft (3.225 m) Aug. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	788	126	396	211	7.1	15	11	9.8	17	236	1010	779
2	559	189	195	16	13	11	22	70	9.3	244	1190	784
3	1.8	157	190	13	7.0	7.5	17	248	15	652	1780	708
4	8.4	78	189	13	12	130	19	248	14	327	1790	1210
5	13	373	189	10	6.1	187	125	267	69	86	1270	1380
6	6.8	130	184	9.2	11	189	229	657	215	582	764	1160
7	17	11	394	13	8.7	186	229	2580	598	1510	1270	763
8	64	9.9	401	11	9.0	187	92	2110	196	837	3000	742
9	197	11	423	6.3	13	255	14	1210	952	853	5610	747
10	201	12	1160	7.1	8.4	1420	12	780	1710	864	3610	383
11	173	7.3	1160	8.7	11	1090	18	231	1620	680	1940	938
12	46	9.9	937	9.7	11	602	157	235	781	673	5050	2460
13	47	11	623	7.3	13	400	186	242	596	659	6050	5230
14	12	103	625	7.3	9.4	405	207	90	624	592	6270	5870
15	13	188	786	6.6	10	403	211	13	409	625	6260	3990
16	12	189	786	127	11	345	230	18	96	743	6230	407
17	11	86	788	120	11	9.3	152	17	18	753	6230	748
18	6.2	14	790	169	46	8.7	18	109	18	1250	6050	747
19	124	14	398	173	204	14	11	487	8.0	955	5870	401
20	186	12	401	372	199	15	158	1150	17	1070	6370	735
21	195	11	274	371	197	18	290	794	87	1050	6600	246
22	191	72	9.2	376	190	17	306	215	234	403	6580	13
23	59	196	13	383	192	17	317	14	619	464	6580	141
24	11	81	10	392	78	17	311	173	230	1010	6580	378
25	10	13	34	217	14	12	313	243	235	887	6100	339
26	13	12	189	400	17	18	324	243	220	400	5830	730
27	132	9.3	398	406	9.4	14	334	122	599	982	5840	351
28	194	7.4	407	378	15	8.2	336	21	597	1190	5840	8.8
29	147	54	221	214	---	19	349	20	612	1510	3850	96
30	8.2	389	225	8.7	---	19	120	12	410	1760	286	216
31	6.7	---	224	9.7	---	19	---	13	---	1580	468	---
TOTAL	3453.1	2575.8	13019.2	4465.6	1333.1	6057.7	5118	12641.8	11825.3	25427	132168	32700.8
MEAN	111	85.9	420	144	47.6	195	171	408	394	820	4263	1090
MAX	788	389	1160	406	204	1420	349	2580	1710	1760	6600	5870
MIN	1.8	7.3	9.2	6.3	6.1	7.5	11	9.8	8.0	86	286	8.8
AC-FT	6850	5110	25820	8860	2640	12020	10150	25070	23460	50430	262200	64860

CAL YR 1977 TOTAL 120435.8 MEAN 330 MAX 4310 MIN 1.8 AC-FT 238900
WTR YR 1978 TOTAL 250785.4 MEAN 687 MAX 6600 MIN 1.8 AC-FT 497400

SOUTHERN FLORIDA
CALOOSAHATCHEE RIVER

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 (5.1 km) east of Alva, 9 mi (14.5 km) west of La Belle, and 9.6 mi (15.4 km) east of Olga.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--December 1975 to current year.

GAGE.--Water-stage and deflection-meter recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. 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 recording deflection meter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 641 ft³/s (18.2 m³/s) Aug. 13, 1977; maximum gage height, 7.46 ft (2.274 m) May 11, 1977; maximum daily reverse flow, 318 ft³/s (9.01 m³/s) March 29, 1976; minimum gage height, 2.18 ft (0.664 m) Apr. 13, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 582 ft³/s (16.5 m³/s) June 9; maximum gage height, 6.66 ft (2.030 m) June 9; maximum daily reverse flow 244 ft³/s (6.91 m³/s) Oct. 19; minimum gage height, 2.30 ft (0.701 m) May 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	-237	59	18	-37	-17	-149	-183	-163	56	228	-131
2	-128	-205	37	-70	-16	-48	-124	-229	-62	161	229	-30
3	-116	-207	12	-11	-12	-21	-169	-235	11	222	305	12
4	-77	-153	-56	-41	-16	84	-216	-184	13	237	316	24
5	-197	14	-124	-29	5.6	71	-222	57	-34	157	255	49
6	-202	-18	-99	-92	-64	51	-221	336	37	170	211	392
7	-184	-13	-1.0	-54	-59	11	-175	283	254	237	202	300
8	-128	-37	-32	-43	-26	13	-105	213	410	175	173	210
9	-81	-97	-38	-37	13	201	-90	28	582	192	150	176
10	-225	-165	118	-27	6.8	372	-214	-73	404	154	136	169
11	-177	-201	106	-22	-21	275	-227	-96	280	100	151	147
12	-174	-132	63	-2.5	6.4	176	-236	-51	44	79	234	99
13	-185	-126	34	-5.0	-68	124	-229	-34	23	15	383	46
14	-188	-227	27	-3.0	-63	82	-224	-63	15	78	352	-12
15	-194	-216	41	-55	-79	49	-217	-165	-47	130	208	-106
16	-169	-144	73	11	-43	58	-152	-144	-141	156	171	-25
17	-162	-99	119	99	73	87	-162	-212	-86	220	247	-21
18	-232	-120	187	88	136	87	-201	-179	-9.2	204	191	-78
19	-244	-105	97	148	133	76	-216	-47	-118	190	229	-155
20	-237	-122	-120	199	59	44	-226	-156	-186	180	432	-202
21	-227	-211	-35	36	-86	.00	-212	-149	-13	145	326	-111
22	-166	-237	-16	47	-143	-130	-223	-162	62	124	248	-187
23	-100	-217	-45	40	-44	-150	-157	-226	134	144	189	-48
24	-203	36	16	26	11	-150	-7.8	-234	128	140	266	16
25	-232	96	14	5.6	34	-150	-3.0	-232	128	138	443	24
26	-205	77	20	-110	24	-150	-36	-210	125	502	343	5.4
27	-240	27	24	-181	8.4	-160	-123	-68	95	424	257	8.4
28	-228	12	-131	-49	-15	-170	-133	14	18	408	135	-21
29	-151	17	-124	-72	---	-170	-155	-18	18	361	-5.0	-13
30	-205	57	.20	-74	---	-171	-110	-24	42	309	-92	62
31	-186	---	11	-47	---	-155	---	-184	---	271	-86	---
TOTAL	-5443.00	-2953	237.20	-237.60	-281.8	219.00	-4934.8	-2627	1963.8	6079	6827.0	599.8
MEAN	-176	-98.4	7.65	-7.66	-10.1	7.06	-164	-84.7	65.5	196	220	20.0
MAX	.00	96	187	199	136	372	-3.0	336	582	502	443	392
MIN	-244	-237	-131	-181	-143	-171	-236	-235	-186	15	-92	-202
AC-FT	-10800	-5860	470	-471	-559	434	-9790	-5210	3900	12060	13540	1190

CAL YR 1977	TOTAL	-1954.87	MEAN	-5.36	MAX	641	MIN	-244	AC-FT	-3880
WTR YR 1978	TOTAL	-551.40	MEAN	-1.51	MAX	582	MIN	-244	AC-FT	-1090

02292780 TOWNSEND CANAL NEAR ALVA, FL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.14	2.69	4.22	3.98	3.51	3.58	3.18	3.10	3.09	4.25	4.99	3.27
2	3.07	3.01	4.09	3.77	3.61	3.53	3.20	2.84	3.60	4.72	4.99	3.62
3	3.19	3.07	3.93	3.64	3.57	3.72	3.18	2.75	3.91	4.96	5.28	3.88
4	3.36	3.24	3.63	3.52	3.66	4.37	2.98	2.94	3.96	5.03	5.33	3.96
5	3.02	3.94	3.30	3.64	3.80	4.30	2.92	4.05	3.59	4.69	5.10	4.01
6	2.97	3.78	3.46	3.32	3.56	4.18	2.97	5.39	4.08	4.75	4.92	5.58
7	3.05	3.58	3.80	3.57	3.42	3.86	3.12	5.20	5.03	5.02	4.89	5.26
8	3.22	3.54	3.61	3.60	3.56	3.93	3.31	4.93	5.64	4.77	4.77	4.91
9	3.40	3.32	3.53	3.49	3.93	4.79	3.35	4.01	6.11	4.84	4.77	4.78
10	2.84	3.16	4.53	3.48	3.87	5.52	2.96	3.36	5.62	4.69	4.61	4.75
11	3.10	3.04	4.48	3.57	3.57	5.17	2.85	3.32	5.19	4.43	4.67	4.65
12	3.15	3.20	4.25	3.77	3.85	4.78	2.71	3.43	4.10	4.33	5.02	4.44
13	3.09	3.20	4.07	3.69	3.55	4.56	2.75	3.49	3.97	3.87	5.54	4.10
14	3.06	2.88	4.04	3.81	3.43	4.38	2.87	3.49	3.93	4.35	5.45	3.75
15	3.00	2.96	4.12	3.41	3.38	4.23	2.91	3.17	3.44	4.58	4.90	3.31
16	3.13	3.21	4.32	3.81	3.53	4.26	3.20	3.21	3.03	4.69	4.76	3.53
17	3.09	3.39	4.54	4.45	4.28	4.40	3.09	2.99	3.35	4.96	5.07	3.61
18	2.79	3.29	4.83	4.41	4.61	4.40	3.02	3.01	3.68	4.90	4.84	3.32
19	2.58	3.30	4.36	4.65	4.60	4.35	3.04	3.47	3.28	4.84	4.99	3.21
20	2.69	3.25	3.17	4.86	4.17	4.20	2.88	3.19	3.05	4.80	5.71	3.04
21	2.88	2.95	3.48	4.07	3.44	3.85	2.93	3.17	3.67	4.65	5.36	3.29
22	3.12	2.71	3.47	4.20	3.23	3.50	2.87	3.16	4.28	4.56	5.07	3.12
23	3.30	2.85	3.41	4.17	3.50	3.25	3.12	2.90	4.59	4.65	4.83	3.47
24	3.05	3.99	3.92	4.05	3.88	3.20	3.61	2.76	4.57	4.63	5.13	3.90
25	2.82	4.43	3.86	3.81	4.11	3.10	3.68	2.82	4.58	4.62	5.74	3.93
26	2.88	4.34	3.87	3.28	4.03	3.05	3.49	2.99	4.56	5.89	5.42	3.75
27	2.64	4.01	3.99	3.03	3.83	3.05	3.26	3.40	4.43	5.68	5.10	3.84
28	2.80	3.92	3.32	3.47	3.69	3.03	3.25	3.87	4.05	5.64	4.59	3.63
29	3.18	3.94	3.20	3.39	---	3.12	3.21	3.67	3.93	5.49	3.87	3.73
30	3.04	4.23	3.49	3.38	---	3.20	3.29	3.63	4.19	5.30	3.39	4.21
31	2.98	---	3.91	3.51	---	3.13	---	3.13	---	5.16	3.37	---
MEAN	3.02	3.41	3.88	3.77	3.76	3.94	3.11	3.45	4.15	4.83	4.92	3.93
MAX	3.40	4.43	4.83	4.86	4.61	5.52	3.68	5.39	6.11	5.89	5.74	5.58
MIN	2.58	2.69	3.17	3.03	3.23	3.03	2.71					

SOUTHERN FLORIDA
CALOOSAHATCHEE RIVER

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 (1.6 km) upstream from Telegraph Creek, and 1.2 mi (1.9 km) northeast of Olga.

DRAINAGE AREA.--Indeterminate.

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

GAGE.--Dual water-stage recorder, gate-opening recorder, and gate-opening indicators. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records good. Flow regulated by operation of salinity-control structure 79. Discharge computed from relations between discharge, head, and gate openings.

COOPERATION.--Records of gate and lock operation furnished by Corps of Engineers.

AVERAGE DISCHARGE.--12 years, 1,336 ft³/s (37.8 m³/s) 967,200 acre-ft/yr (1.19 km³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 21,400 ft³/s (606 m³/s) Mar. 27, 1970; maximum gage height, 5.00 ft (1.524 m) June 19, 1972; minimum daily discharge, 1.5 ft³/s (0.04 m³/s) May 24, 1977; minimum gage height, 1.18 ft (0.360 m) Sept. 22, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 3,300 ft³/s (93.5 m³/s) Aug. 4; maximum gage height, 3.78 ft (1.152 m) May 8, July 26; minimum daily discharge, 1.8 ft³/s (0.051 m³/s) May 4; minimum gage height, 2.43 ft (0.741 m) May 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1220	11	267	264	14	179	24	7.8	7.1	555	2150	1360
2	700	9.3	286	245	39	146	34	8.1	9.8	817	2230	1370
3	2.7	11	294	157	166	267	21	9.6	22	1350	3180	1620
4	97	194	284	13	16	503	16	1.8	114	760	3300	2000
5	247	437	248	143	130	686	20	226	184	791	2490	2130
6	6.3	199	362	10	100	672	18	1790	629	1270	1680	2490
7	6.5	7.8	919	144	6.8	502	16	1790	954	2400	2410	1940
8	19	9.6	680	40	35	411	29	1880	1430	1880	2270	1630
9	378	8.3	605	137	301	1730	33	1380	2260	1290	1960	1590
10	322	8.1	1990	5.6	88	1710	19	841	1710	1100	1580	1010
11	5.3	6.1	2110	7.8	12	2100	10	324	1840	1050	1610	2180
12	5.1	6.7	1790	203	60	2200	11	112	1260	1030	1450	1920
13	8.5	12	1450	239	223	1510	12	222	926	456	1490	1370
14	14	6.7	1290	286	13	1810	11	117	809	863	1550	1430
15	16	7.9	1560	124	15	1160	34	15	369	1130	1550	1390
16	26	7.1	1240	586	148	809	34	15	152	1750	1690	1250
17	8.8	4.4	1520	442	312	621	19	11	25	1610	1700	1360
18	6.2	11	1170	384	324	342	12	10	33	2370	1550	755
19	7.9	18	1090	699	632	211	5.5	740	150	1910	1570	704
20	8.6	19	569	1250	666	310	13	1400	8.9	2170	1540	807
21	14	11	405	867	603	324	13	623	102	2010	1550	230
22	15	11	11	408	299	169	29	16	1310	614	1630	7.9
23	19	12	225	717	205	171	33	8.8	668	1880	1710	1210
24	7.3	10	123	458	473	24	487	14	432	1110	1610	1230
25	8.0	13	415	446	202	98	129	16	618	1420	1570	1480
26	8.2	242	621	613	239	344	298	16	1110	3120	1570	2020
27	5.7	291	557	222	267	85	297	32	1220	2500	1640	708
28	7.1	7.6	165	249	133	13	103	324	989	3140	1650	379
29	19	406	159	160	---	10	33	34	913	3000	1690	780
30	23	696	434	15	---	25	32	13	613	2890	1110	662
31	12	---	324	14	---	21	---	13	---	2210	898	---
TOTAL	3243.2	2693.6	23163	9548.4	5721.8	19163	1845.5	12010.1	20867.8	50446	55578	39012.9
MEAN	105	89.8	747	308	204	618	61.5	387	696	1627	1793	1300
MAX	1220	696	2110	1250	666	2200	487	1880	2260	3140	3300	2490
MIN	2.7	4.4	11	5.6	6.8	10	5.5	1.8	7.1	456	898	7.9
AC-FT	6430	5340	45940	18940	11350	38010	3660	23820	41390	100100	110200	77380

CAL YR 1977 TOTAL 210109.7 MEAN 576 MAX 4610 MIN 1.5 AC-FT 416800
WTR YR 1978 TOTAL 243293.3 MEAN 667 MAX 3300 MIN 1.8 AC-FT 482600

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 stations. 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 analyses, 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 date 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. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1978

Station number	Station name	Location	Drainage area (sq mi)	Period of record	Annual Maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
Kissimmee River Basin							
02269720	Morgan Hole Creek near Avon Park, FL	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 (8.7 km) upstream from mouth and 12.5 mi (20.1 km) east of Avon Park. Datum of gage is 53.15 ft (16.200 m) National Geodetic Vertical Datum of 1929.	a15.5	1971-78	7-27-78	7.12	1120
Everglades and Southeastern coastal area							
02279517	Lateral Ditch No. 1 at Delray Beach, FL	Lat 26°29'01", long 80°03'49", in NE¼, sec.9, T.46 S., R.43 E., Palm Beach County, Hydrologic Unit 03090202, at storm sewer outfall, 650 ft (198 m) east of U.S. Highway 1, 800 ft (244 m) above mouth, and 1.5 mi (2.4 km) northeast of Delray Beach City Hall.		1971-78	6-04-78	7.27	33
Caloosahatchee River							
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 Buckingham Road, 0.3 mi (0.5 km) south of Buckingham, 2.5 mi (4.0 km) upstream from mouth, and 9 mi (14.4 km) east of Fort Myers. Datum of gage is 2.61 ft (0.847 m) National Geodetic Vertical Datum of 1929.	a70	1960-78	7-11-78	6.70	610

a Approximately

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table.

Discharge measurements made at miscellaneous sites during water year 1978

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Dis- charge (cfs)
Everglades and southeastern coastal area						
Loxahatchee River	Atlantic Ocean	Lat 26°59'55", long 80°09'18", in NW¼ sec.16,T.40S., R.42E., Martin County, Hydrologic Unit 03090202, at the mouth of J-D Creek in Jonathan Dickinson State Park, 5.2 miles (8.4 km) northwest of Jupiter and 8.3 miles (13.4 km) above Jupiter Inlet.		1976-77	1-12-78	44
					2-10-78	57
					3-13-78	81
					6-21-78	13
Black Creek Canal	Biscayne Bay	Lat 26°39'39", long 80°28'46", in SW¼ sec.7, T.55S., R.39E., Dade County, Hydrologic Unit 03090202, at railroad bridge, 600 ft (183 m) east of Krome Avenue, and 6.5 mi (10.5 km) northeast of Richmond Heights.			10-26-77	359
Levee 31 Canal North	C-111 Canal	Lat 25°38'15", long 80°29'20", in NE¼ sec.23, T.55S., R.38E., Dade County, Hydrologic Unit 03090202, 1.1 miles (1.8 km) west of State Road 27, 6 miles (10 km) north of Homestead and 13 miles (21 km) south of U.S. Highway 41.		1977	5-08-78	34
					5-22-78	46
					8-24-78	47
					9-25-78	54

LAKE ELEVATIONS

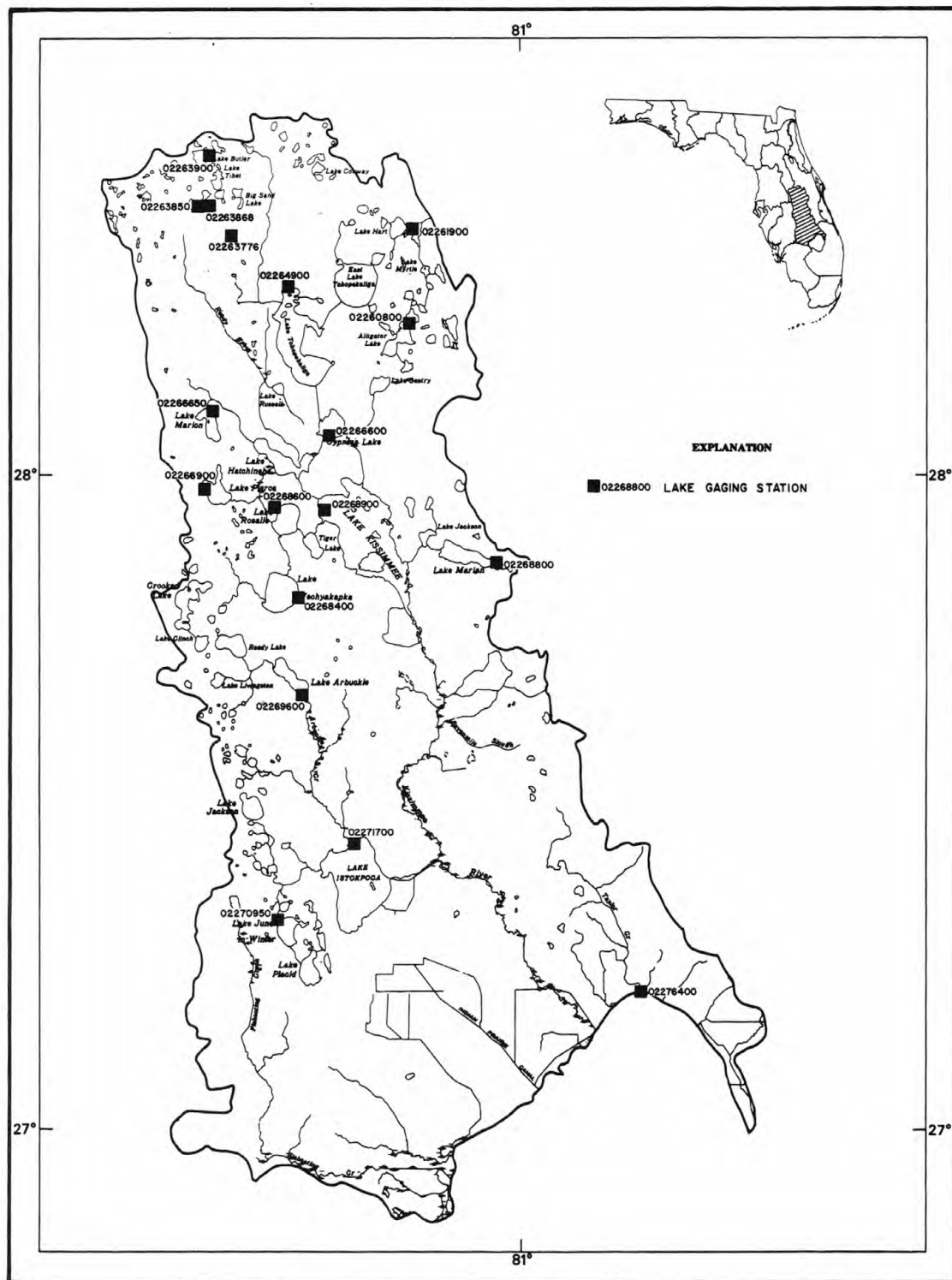


Figure 12. Location of lake gaging stations in the Kissimmee River basin; the Taylor Creek basin and inflow to Lake Okeechobee from the north; and Fisheating Creek basin and inflow to Lake Okeechobee from the northwest

KISSIMMEE RIVER BASIN

02260800 ALLIGATOR LAKE NEAR ASHTON, FL

LOCATION.--Lat 28°13'55", long 81°11'17", in SW¼ sec.11, T.26 S., R.31 E., Osceola County, Hydrologic Unit 03090101, at northeast end of lake, in boat basin at end of stub canal about 1,300 ft (400 m) southeast of canal connecting Alligator Lake and Lake Lizzie and 3.5 mi (5.6 km) east of Ashton.

SURFACE AREA.--3,401 acres (5.31 mi², 13.76 km²).

DRAINAGE AREA.--26.6 mi² (68.9 km²).

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

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Prior to May 31, 1967, at several sites within about 700 ft (200 m) of present site at datum 60.74 ft (18.514 m) higher and May 31, 1967 to Feb. 19, 1975, at same site at datum 60.74 ft (18.514 m) 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, 66.81 ft (20.364 m) Sept. 25, 1960; minimum daily, 59.52 ft (18.142 m) June 10,11, 1962.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation known, 67.7 ft (20.63 m) in June 1934, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 63.25 ft (19.279 m) Aug. 5,6; minimum daily, 61.73 ft (18.815 m) June 1.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62.56	62.37	62.36	62.62	63.02	62.98	62.52	62.00	61.73	62.26	63.20	63.06
2	62.56	62.41	62.36	62.62	63.04	62.96	62.51	62.00	61.76	62.24	63.21	63.05
3	62.56	62.45	62.35	62.63	63.04	62.94	62.50	62.02	61.77	62.20	63.22	63.04
4	62.53	62.44	62.34	62.63	63.04	63.02	62.49	62.06	61.80	62.17	63.23	63.04
5	62.50	62.44	62.32	62.62	62.99	63.00	62.48	62.12	61.82	62.22	63.25	63.05
6	62.48	62.44	62.34	62.62	62.96	62.98	62.47	62.12	61.82	62.30	63.25	63.03
7	62.46	62.44	62.34	62.61	62.98	62.97	62.47	62.10	61.84	62.29	63.24	63.05
8	62.44	62.43	62.34	62.61	62.98	62.97	62.46	62.10	61.86	62.28	63.24	63.04
9	62.44	62.43	62.36	62.61	63.00	62.98	62.44	62.08	61.90	62.28	63.23	63.04
10	62.43	62.42	62.36	62.61	63.02	62.94	62.42	62.08	61.90	62.28	63.22	63.04
11	62.42	62.38	62.38	62.61	63.02	62.92	62.40	62.07	61.90	62.29	63.21	63.03
12	62.43	62.38	62.38	62.62	63.00	62.90	62.39	62.06	61.89	62.29	63.20	63.04
13	62.46	62.36	62.40	62.63	62.98	62.86	62.38	62.05	61.88	62.30	63.20	63.04
14	62.43	62.36	62.40	62.71	62.68	62.82	62.36	62.04	61.88	62.30	63.18	63.03
15	62.41	62.35	62.42	62.72	62.97	62.79	62.33	62.02	61.87	62.30	63.16	63.03
16	62.39	62.34	62.46	62.74	62.96	62.75	62.31	61.96	61.86	62.29	63.15	63.08
17	62.37	62.33	62.48	62.74	63.02	62.72	62.29	61.92	61.85	62.30	63.14	63.03
18	62.35	62.33	62.50	62.82	63.10	62.69	62.28	61.94	61.84	62.30	63.12	63.03
19	62.34	62.32	62.50	62.84	63.20	62.65	62.27	61.96	61.83	62.34	63.10	63.00
20	62.33	62.30	62.50	62.87	63.21	62.61	62.26	61.94	61.81	62.37	63.11	62.98
21	62.32	62.29	62.52	62.95	63.23	62.58	62.25	61.92	61.79	62.40	63.12	62.98
22	62.31	62.28	62.53	62.96	63.17	62.60	62.22	61.90	61.84	62.40	63.12	62.96
23	62.32	62.28	62.55	62.96	63.13	62.60	62.18	61.88	61.92	62.40	63.12	62.96
24	62.34	62.28	62.55	62.96	63.10	62.60	62.14	61.87	62.15	62.40	63.12	62.96
25	62.37	62.32	62.56	63.10	63.06	62.60	62.10	61.85	62.18	62.43	63.11	62.98
26	62.39	62.32	62.56	63.10	63.06	62.59	62.06	61.84	62.20	62.47	63.10	62.98
27	62.39	62.30	62.57	63.10	63.02	62.58	62.06	61.82	62.24	62.50	63.09	63.02
28	62.39	62.28	62.58	63.12	63.00	62.57	62.04	61.80	62.26	62.55	63.08	63.02
29	62.39	62.28	62.58	63.10	---	62.56	62.02	61.78	62.27	62.60	63.07	63.01
30	62.38	62.34	62.59	63.12	---	62.55	62.00	61.75	62.27	62.90	63.07	63.00
31	62.38	---	62.60	63.07	---	62.54	---	61.74	---	63.00	63.06	---
MEAN	62.42	62.36	62.45	62.81	63.04	62.77	62.30	61.96	61.93	62.38	63.16	63.02
MAX	62.56	62.45	62.60	63.12	63.23	63.02	62.52	62.12	62.27	63.00	63.25	63.08
MIN	62.31	62.28	62.32	62.61	62.68	62.54	62.00	61.74	61.73	62.17	63.06	62.96
CAL YR 1977	MEAN 62.30		MAX 63.32	MIN 61.62								
WTR YR 1978	MEAN 62.55		MAX 63.25	MIN 61.73								

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 (300 m) south of Mary Jane-Hart Canal, 6.5 mi (10.5 km) northeast of Narcoossee, and 11 mi (18 km) northeast of St. Cloud.

SURFACE AREA.--1,161 acres (1.81 mi², 4.70 km²).

DRAINAGE AREA.--124 mi² (321 km²).

PERIOD OF RECORD.--November 1949 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 National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Prior to Nov. 26, 1973, water-stage recorder at datum 56.66 ft (17.270 m) 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 (19.754 m) Mar. 20, 1960; minimum daily, 57.64 ft (17.569 m) June 23, 26-28, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 60.83 ft (18.541 m) Jan. 20; minimum daily, 59.05 ft (17.998 m) May 2,3.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60.06	60.04	60.06	60.70	60.35	60.36	60.07	59.06	59.31	59.57	60.33	59.94
2	60.02	60.04	60.07	60.72	60.40	60.33	60.05	59.05	59.29	59.56	60.26	59.93
3	59.97	60.05	60.06	60.73	60.44	60.37	60.03	59.05	59.30	59.54	60.20	59.91
4	59.94	60.12	60.05	60.74	60.43	60.42	60.01	59.12	59.34	59.57	60.12	59.91
5	59.92	60.15	60.06	60.75	60.41	60.41	60.00	59.18	59.34	59.72	60.07	59.95
6	59.90	60.15	60.11	60.76	60.40	60.39	59.97	59.25	59.33	59.79	60.06	60.03
7	59.89	60.15	60.10	60.75	60.37	60.38	59.95	59.39	59.32	59.85	60.03	60.18
8	59.89	60.15	60.09	60.74	60.36	60.36	59.93	59.46	59.31	59.89	60.00	60.22
9	59.88	60.15	60.12	60.78	60.47	60.37	59.90	59.51	59.31	59.90	60.04	60.19
10	59.89	60.14	60.16	60.74	60.46	60.32	59.87	59.55	59.31	59.91	60.05	60.18
11	59.91	60.11	60.15	60.71	60.45	60.21	59.83	59.57	59.30	59.90	60.07	60.24
12	59.93	60.09	60.16	60.69	60.45	60.13	59.80	59.59	59.29	59.92	60.13	60.21
13	59.95	60.07	60.16	60.72	60.46	60.07	59.78	59.59	59.27	59.96	60.17	60.17
14	59.93	60.06	60.20	60.75	60.45	60.12	59.77	59.57	59.24	59.96	60.19	60.12
15	59.91	60.05	60.23	60.73	60.43	60.15	59.73	59.54	59.23	59.96	60.20	60.07
16	59.91	60.05	60.29	60.71	60.46	60.19	59.69	59.51	59.21	60.00	60.21	60.06
17	59.89	60.05	60.35	60.71	60.50	60.18	59.64	59.51	59.19	60.02	60.20	60.01
18	59.87	60.05	60.38	60.73	60.61	60.17	59.60	59.53	59.16	60.04	60.18	59.97
19	59.87	60.04	60.39	60.75	60.70	60.17	59.56	59.54	59.13	60.14	60.17	59.93
20	59.86	60.04	60.41	60.83	60.76	60.18	59.53	59.53	59.12	60.41	60.14	59.89
21	59.84	60.03	60.46	60.78	60.81	60.20	59.48	59.52	59.16	60.42	60.11	59.87
22	59.84	60.03	60.50	60.72	60.75	60.21	59.43	59.50	59.24	60.39	60.08	59.86
23	59.85	60.04	60.52	60.67	60.67	60.21	59.38	59.49	59.35	60.36	60.05	59.87
24	59.90	60.04	60.54	60.65	60.60	60.22	59.34	59.47	59.49	60.32	60.01	59.88
25	59.98	60.05	60.57	60.63	60.52	60.21	59.29	59.45	59.54	60.28	60.02	59.92
26	60.05	60.04	60.60	60.61	60.45	60.20	59.24	59.44	59.55	60.24	60.01	60.03
27	60.06	60.01	60.61	60.52	60.37	60.17	59.14	59.42	59.57	60.18	60.00	60.12
28	60.06	60.00	60.62	60.46	60.34	60.14	59.10	59.39	59.56	60.20	59.98	60.18
29	60.06	60.01	60.63	60.40	---	60.12	59.09	59.37	59.55	60.34	59.97	60.16
30	60.06	60.05	60.65	60.35	---	60.10	59.07	59.35	59.54	60.35	59.96	60.16
31	60.05	---	60.68	60.34	---	60.08	---	59.33	---	60.35	59.95	---
MEAN	59.94	60.07	60.32	60.67	60.50	60.23	59.64	59.41	59.33	60.03	60.10	60.04
MAX	60.06	60.15	60.68	60.83	60.81	60.42	60.07	59.59	59.57	60.42	60.33	60.24
MIN	59.84	60.00	60.05	60.34	60.34	60.07	59.07	59.05	59.12	59.54	59.95	59.86
CAL YR 1977	MEAN 59.85		MAX 60.86	MIN 59.05								
WTR YR 1978	MEAN 60.02		MAX 60.83	MIN 59.05								

SOUTHERN FLORIDA

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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 (1.8 km) south of intersection of Interstate Highway 4 and State Road 535, and 2.2 mi (3.5 km) south of Vineland.

SURFACE AREA.--210 acres (0.33 mi², 0.85 km²).

DRAINAGE AREA.--2.70 mi² (6.99 km²).

PERIOD OF RECORD.--

ELEVATION: September 1969 to current year (fragmentary).

WATER TEMPERATURE: October 1975 to current year. Records of miscellaneous temperature observations prior to October 1975 are available in files of the Geological Survey.

REVISED RECORDS.--WRD FL 1972: 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.--

ELEVATION: Maximum daily elevation, 99.99 ft (30.477 m) Sept. 29, 1969; minimum daily, 96.30 ft (29.352 m) Aug. 1, 1977.

WATER TEMPERATURE: (1975-78); Maximum observed, 30.0°C Aug. 31, 1976, Aug. 1, 1977, July 14 and Aug. 10, 1978; minimum observed, 14.0°C Feb. 23, 1978.

ELEVATION AND WATER TEMPERATURE, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	TEMPER- ATURE (DEG C)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	TEMPER- ATURE (DEG C)
OCT				APR			
04...	1300	96.72	27.5	18...	0835	96.76	25.0
NOV				JUL			
14...	0940	96.34	18.5	14...	0800	96.68	30.0
DEC				AUG			
28...	1525	96.36	15.0	10...	0945	97.62	30.0
FEB				25...	1110	97.87	--
23...	1440	96.86	14.0				

SOUTHERN 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 (60 m) south of natural lake shore line, and 3.5 mi (5.6 km) northwest of Vineland.

SURFACE AREA.--436 acres (0.68 mi², 1.76 km²).

DRAINAGE AREA.--14.8 mi² (38.3 km²).

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 (27.432 m) 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 (60 m) 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 (28.977 m) Aug. 18, 1967; minimum, 92.55 ft (28.209 m) May 24, 1968, except when lake was drained in 1970.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 94.71 ft (28.868 m) July 7; minimum daily, 94.00 ft (28.651 m) Sept. 29,30.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	UCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94.27	94.17	94.33	94.61	94.38	94.49	94.45	94.13	94.10	94.47	94.44	94.22
2	94.26	94.17	94.34	94.63	94.40	94.48	94.44	94.12	94.14	94.04	94.40	94.21
3	94.25	94.18	94.34	94.62	94.42	94.53	94.45	94.11	94.26	94.62	94.36	94.21
4	94.20	94.22	94.34	94.60	94.41	94.57	94.45	94.21	94.28	94.60	94.31	94.22
5	94.18	94.26	94.34	94.61	94.40	94.54	94.44	94.28	94.30	94.58	94.27	94.22
6	94.15	94.26	94.41	94.61	94.39	94.52	94.43	94.28	94.30	94.63	94.22	94.21
7	94.13	94.26	94.40	94.60	94.36	94.52	94.42	94.32	94.29	94.71	94.17	94.20
8	94.12	94.25	94.38	94.62	94.36	94.51	94.42	94.32	94.32	94.67	94.16	94.20
9	94.12	94.25	94.41	94.65	94.47	94.56	94.41	94.31	94.32	94.62	94.15	94.18
10	94.12	94.25	94.44	94.62	94.46	94.58	94.39	94.30	94.32	94.56	94.14	94.18
11	94.14	94.22	94.43	94.60	94.45	94.54	94.37	94.28	94.32	94.55	94.13	94.17
12	94.15	94.20	94.43	94.59	94.44	94.53	94.36	94.26	94.40	94.61	94.15	94.17
13	94.16	94.18	94.43	94.61	94.44	94.52	94.37	94.25	94.41	94.56	94.15	94.16
14	94.12	94.17	94.45	94.62	94.44	94.52	94.42	94.23	94.39	94.50	94.15	94.15
15	94.11	94.17	94.46	94.59	94.42	94.51	94.41	94.20	94.42	94.49	94.15	94.14
16	94.10	94.18	94.58	94.57	94.48	94.51	94.39	94.17	94.41	94.54	94.17	94.13
17	94.08	94.19	94.63	94.59	94.54	94.48	94.37	94.15	94.39	94.51	94.18	94.12
18	94.07	94.19	94.63	94.60	94.61	94.45	94.36	94.14	94.36	94.48	94.23	94.11
19	94.06	94.19	94.61	94.62	94.60	94.43	94.37	94.14	94.34	94.49	94.24	94.10
20	94.06	94.19	94.61	94.66	94.60	94.42	94.36	94.17	94.32	94.54	94.24	94.09
21	94.06	94.20	94.62	94.61	94.59	94.42	94.34	94.15	94.33	94.52	94.25	94.08
22	94.06	94.20	94.63	94.56	94.55	94.42	94.31	94.14	94.39	94.51	94.24	94.08
23	94.06	94.22	94.61	94.52	94.52	94.42	94.29	94.13	94.45	94.50	94.24	94.07
24	94.10	94.25	94.60	94.51	94.51	94.41	94.27	94.12	94.46	94.50	94.23	94.06
25	94.14	94.32	94.61	94.52	94.49	94.43	94.26	94.13	94.46	94.49	94.22	94.06
26	94.16	94.32	94.62	94.51	94.49	94.51	94.25	94.22	94.47	94.50	94.22	94.05
27	94.17	94.28	94.60	94.47	94.48	94.50	94.20	94.19	94.47	94.51	94.22	94.03
28	94.17	94.28	94.60	94.45	94.48	94.48	94.18	94.17	94.47	94.55	94.21	94.02
29	94.17	94.29	94.58	94.42	---	94.47	94.16	94.14	94.46	94.54	94.21	94.00
30	94.17	94.32	94.59	94.40	---	94.47	94.14	94.13	94.45	94.52	94.20	94.00
31	94.17	---	94.60	94.39	---	94.45	---	94.11	---	94.47	94.21	---
MEAN	94.14	94.23	94.50	94.57	94.47	94.49	94.35	94.19	94.36	94.55	94.22	94.13
MAX	94.27	94.32	94.63	94.66	94.61	94.58	94.45	94.32	94.47	94.71	94.44	94.22
MIN	94.06	94.17	94.33	94.39	94.36	94.41	94.14	94.11	94.10	94.47	94.13	94.00
CAL YR 1977	MEAN 94.04		MAX 94.63	MIN 93.25								
WTR YR 1978	MEAN 94.35		MAX 94.71	MIN 94.00								

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 (90 m) south of natural lake shoreline, 1,600 ft (490 m) west of State Road 535, and 2.4 mi (3.9 km) northwest of Vineland.

SURFACE AREA.--128 acres (0.20 mi², 0.52 km²).

DRAINAGE AREA.--4.0 mi² (10.4 km²), approximately.

PERIOD OF RECORD.--April 1969 to current year. Records for 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, 94.31 ft (28.746 m) Oct. 8, 9, 1969; minimum daily, 91.18 ft (27.792 m) July 15, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 93.19 ft (28.404 m) Aug. 20; minimum daily, 91.64 ft (27.932 m) Nov. 21-23.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91.98	91.78	91.82	92.12	92.22	92.55	92.59	92.14	92.00	92.15	92.97	92.90
2	91.98	91.77	91.87	92.14	92.23	92.55	92.57	92.12	91.98	92.20	92.96	92.89
3	91.94	91.75	91.88	92.15	92.24	92.60	92.56	92.12	92.05	92.23	92.97	92.85
4	91.92	91.75	91.88	92.15	92.22	92.65	92.55	92.19	92.07	92.22	92.97	92.84
5	91.89	91.77	91.88	92.13	92.20	92.65	92.53	92.28	92.08	92.20	92.96	92.86
6	91.87	91.77	91.89	92.13	92.19	92.64	92.52	92.28	92.09	92.19	92.99	92.85
7	91.85	91.77	91.92	92.13	92.18	92.63	92.50	92.31	92.10	92.28	92.98	92.84
8	91.85	91.76	91.92	92.14	92.17	92.63	92.49	92.30	92.11	92.30	92.98	92.84
9	91.84	91.75	91.91	92.14	92.20	92.68	92.47	92.29	92.10	92.29	92.97	92.80
10	91.82	91.74	91.95	92.14	92.20	92.73	92.45	92.28	92.10	92.28	92.95	92.79
11	91.86	91.71	91.94	92.13	92.19	92.73	92.43	92.26	92.10	92.29	92.95	92.82
12	91.88	91.70	91.93	92.13	92.17	92.73	92.41	92.24	92.15	92.42	92.97	92.83
13	91.91	91.68	91.93	92.14	92.15	92.73	92.41	92.22	92.17	92.46	92.98	92.80
14	91.87	91.66	91.96	92.14	92.15	92.73	92.45	92.19	92.15	92.47	92.99	92.79
15	91.85	91.65	92.00	92.13	92.15	92.73	92.45	92.16	92.14	92.47	93.00	92.78
16	91.84	91.65	92.07	92.12	92.15	92.73	92.43	92.13	92.16	92.47	93.01	92.80
17	91.82	91.65	92.14	92.12	92.41	92.72	92.41	92.12	92.14	92.54	93.07	92.80
18	91.80	91.66	92.14	92.15	92.47	92.70	92.40	92.15	92.11	92.68	93.08	92.73
19	91.78	91.65	92.13	92.15	92.51	92.69	92.39	92.14	92.09	92.69	93.12	92.71
20	91.78	91.65	92.12	92.28	92.53	92.67	92.39	92.15	92.07	92.84	93.19	92.70
21	91.77	91.64	92.12	92.30	92.55	92.67	92.37	92.14	92.08	92.87	93.14	92.70
22	91.77	91.64	92.15	92.30	92.54	92.67	92.35	92.11	92.12	92.87	93.12	92.69
23	91.76	91.64	92.14	92.29	92.53	92.66	92.32	92.09	92.17	92.87	93.08	92.68
24	91.77	91.66	92.13	92.29	92.54	92.65	92.30	92.07	92.20	92.87	93.04	92.66
25	91.80	91.74	92.14	92.28	92.54	92.65	92.29	92.08	92.20	92.88	93.03	92.66
26	91.80	91.74	92.13	92.29	92.53	92.66	92.26	92.16	92.20	92.90	93.00	92.66
27	91.80	91.72	92.12	92.29	92.53	92.65	92.22	92.13	92.20	92.92	92.97	92.63
28	91.80	91.72	92.12	92.28	92.54	92.65	92.20	92.09	92.19	92.93	92.92	92.58
29	91.80	91.72	92.10	92.26	---	92.63	92.17	92.06	92.18	92.94	92.91	92.55
30	91.80	91.78	92.10	92.23	---	92.62	92.16	92.05	92.17	92.95	92.90	92.53
31	91.79	---	92.10	92.21	---	92.61	---	92.02	---	92.96	92.90	---
MEAN	91.84	91.71	92.02	92.19	92.33	92.66	92.40	92.16	92.12	92.57	93.00	92.75
MAX	91.98	91.78	92.15	92.30	92.55	92.73	92.59	92.31	92.20	92.96	93.19	92.90
MIN	91.76	91.64	91.82	92.12	92.15	92.55	92.16	92.02	91.98	92.15	92.90	92.53

CAL YR 1977 MEAN 91.93 MAX 92.74 MIN 91.18
WTR YR 1978 MEAN 92.31 MAX 93.19 MIN 91.64

NOTE.--Estimated Jan. 8 to Feb. 23, Aug. 14 to Sept. 30.

SOUTHERN FLORIDA

KISSIMMEE RIVER BASIN

02263900 LAKE BUTLER AT WINDERMERE, FL

LOCATION.--Lat 28°29'26", long 81°32'04", in NW¼ sec.17, T.23 S., R.28 E., Orange County, Hydrologic Unit 03090101, on east shore of lake, in private boat basin, at Windermere.

SURFACE AREA.--1,665 acres (2.60 mi², 6.74 km²).

DRAINAGE AREA.--14.5 mi² (37.6 km²).

PERIOD OF RECORD.--January 1933 to October 1941 (weekly), incomplete, November 1941 to July 1976 (daily), August 1976 to current year (weekly). Records of elevations prior to October 1960 are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is 96.40 ft (29.383 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 27, 1941, nonrecording gage at site 500 ft (150 m) south of present site at elevation 100.17 ft (30.532 m). Nov. 27, 1941 to Mar. 9, 1942, nonrecording gage at site of old hotel dock about 0.4 mi (0.6 km) northwest at present datum. Gage readings have been reduced to elevations NGVD.

REMARKS.--Lake is one of the Cypress Creek headwaters chain of lakes.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 101.78 ft (31.023 m) Sept. 13, 1960; minimum daily, 96.58 ft (29.437 m) Aug. 9, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 97.54 ft (29.730 m) Aug. 21; minimum daily, 96.68 ft (29.468 m) Nov. 21.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	97.26	---	96.88	---	---	---	---
2	---	96.98	---	---	---	---	---	---	---	---	---	---
3	97.26	---	---	---	96.89	---	97.30	---	---	97.06	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	97.45
6	---	---	96.88	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	97.30	---	---	---	---	97.45	---
8	---	---	---	---	---	---	---	---	96.84	---	---	---
9	---	---	---	---	---	---	---	96.98	---	---	---	---
10	97.06	96.88	---	---	---	---	97.18	---	---	97.04	---	---
11	---	---	---	---	---	---	---	---	---	---	---	97.37
12	---	---	96.80	---	---	---	---	---	96.88	---	---	---
13	---	---	---	---	96.96	---	---	---	---	---	---	---
14	---	96.76	---	---	---	97.44	---	---	---	---	97.49	---
15	---	96.72	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	96.82	---	---	---
17	97.00	---	---	---	---	---	97.10	96.78	---	97.24	---	---
18	---	---	---	---	---	---	97.12	---	---	---	---	97.32
19	---	---	96.92	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	97.38	---	---	96.78	---	---	---
21	---	96.68	---	---	97.26	---	---	---	---	---	97.54	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	96.74	---	---	---	---
24	---	---	---	---	97.26	---	96.98	---	---	97.30	---	---
25	---	---	---	---	---	---	---	---	---	---	---	97.26
26	97.04	---	---	96.96	---	---	---	---	96.98	---	---	---
27	---	---	96.90	---	---	---	---	---	---	---	---	---
28	---	96.72	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	97.32	---	---	---	---	97.50	---
30	---	---	96.88	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	96.80	---	97.37	---	---

SOUTHERN FLORIDA

KISSIMMEE RIVER BASIN

02266600 CYPRESS LAKE NEAR ST. CLOUD, FL

LOCATION.--Lat 28°03'40", long 81°19'58", in SW¼ sec.8, T.28 S., R.30 E., Osceola County, Hydrologic Unit 03090101, on south shore of lake, about 1,600 ft (490 m) east of the head of Hatchineha Canal, and about 13 mi (21 km) south of St. Cloud.

SURFACE AREA.--4,085 acres (6.38 mi², 16.53 km²).

DRAINAGE AREA.--1,162 mi² (3,010 km²), 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 available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Prior to Dec. 13, 1973, at datum 48.78 ft (14.868 m) higher.

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 (16.22 m). Overflow over the south shore begins at a slightly higher stage.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 57.18 ft (17.428 m) Sept. 26, 1960; minimum daily, 47.60 ft (14.508 m) June 4, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 52.14 ft (15.892 m) Aug. 3; minimum daily, 48.92 ft (14.911 m) Nov. 19, 20.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50.02	49.43	49.40	50.78	50.79	51.00	50.91	50.22	49.55	50.03	52.01	51.45
2	49.98	49.41	49.38	50.79	50.85	51.03	50.90	50.19	49.58	50.04	52.11	51.49
3	49.90	49.41	49.37	50.79	50.87	51.26	50.90	50.19	49.59	50.05	52.14	51.51
4	49.73	49.47	49.42	50.82	50.78	51.36	50.90	50.40	49.60	50.04	52.08	51.53
5	49.62	49.53	49.50	50.88	50.82	51.34	50.89	50.45	49.61	50.04	51.93	51.56
6	49.54	49.54	49.57	50.92	50.90	51.43	50.88	50.37	49.62	50.06	51.86	51.59
7	49.53	49.53	49.51	50.95	50.87	51.48	50.86	50.28	49.70	50.07	51.78	51.64
8	49.53	49.50	49.51	51.03	50.91	51.48	50.83	50.22	49.74	50.11	51.72	51.54
9	49.56	49.41	49.59	51.04	51.01	51.58	50.80	50.16	49.79	50.13	51.64	51.51
10	49.55	49.35	49.60	50.96	50.98	51.66	50.81	50.07	49.76	50.13	51.62	51.46
11	49.55	49.23	49.47	50.97	50.96	51.49	50.82	50.07	49.76	50.16	51.64	51.42
12	49.57	49.11	49.48	51.05	50.99	51.46	50.75	50.05	49.75	50.18	51.68	51.37
13	49.56	49.03	49.53	51.16	51.02	51.42	50.79	50.04	49.72	50.25	51.75	51.37
14	49.51	48.96	49.60	51.16	50.97	51.44	50.66	49.96	49.75	50.26	51.79	51.19
15	49.49	48.95	49.60	51.14	50.93	51.40	50.63	49.91	49.72	50.33	51.78	51.11
16	49.50	48.95	49.82	51.19	50.98	51.41	50.59	49.86	49.69	50.41	51.75	51.17
17	49.46	48.97	50.14	51.27	51.10	51.29	50.60	49.81	49.71	50.43	51.70	51.18
18	49.43	48.95	50.29	51.26	51.22	51.19	50.61	49.84	49.67	50.46	51.71	51.20
19	49.43	48.92	50.29	51.39	51.48	51.17	50.64	49.82	49.67	50.54	51.74	51.18
20	49.41	48.92	50.27	51.54	51.72	51.14	50.60	49.79	49.69	50.65	51.75	51.18
21	49.37	48.94	50.38	51.49	51.70	51.10	50.54	49.77	49.73	50.71	51.77	51.19
22	49.36	48.98	50.40	51.45	51.48	51.06	50.50	49.77	49.81	50.77	51.76	51.20
23	49.37	49.08	50.44	51.39	51.54	51.04	50.54	49.73	49.87	50.81	51.65	51.26
24	49.42	49.16	50.48	51.35	51.45	51.04	50.48	49.70	49.91	50.85	51.52	51.26
25	49.46	49.22	50.56	51.40	51.42	51.04	50.39	49.67	49.92	50.88	51.49	51.26
26	49.49	49.22	50.61	51.40	51.38	51.05	50.37	49.64	49.96	50.93	51.46	51.27
27	49.50	49.14	50.62	51.18	51.25	50.94	50.21	49.61	49.97	51.04	51.42	51.27
28	49.49	49.19	50.66	51.10	51.01	50.90	50.26	49.58	50.03	51.21	51.38	51.27
29	49.47	49.22	50.67	51.00	---	50.87	50.25	49.57	50.05	51.38	51.35	51.29
30	49.45	49.34	50.73	50.88	---	50.88	50.25	49.56	50.05	51.50	51.40	51.32
31	49.42	---	50.76	50.80	---	50.89	---	49.55	---	51.69	51.43	---
MEAN	49.54	49.20	49.99	51.11	51.12	51.22	50.64	49.93	49.77	50.52	51.70	51.34
MAX	50.02	49.54	50.76	51.54	51.72	51.66	50.91	50.45	50.05	51.69	52.14	51.64
MIN	49.36	48.92	49.37	50.78	50.78	50.87	50.21	49.55	49.55	50.03	51.35	51.11
CAL YR 1977	MEAN 49.75		MAX 51.27	MIN 48.92								
WTH YR 1978	MEAN 50.50		MAX 52.14	MIN 48.92								

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 (7.2 km) east of Haines City.

SURFACE AREA.--2,968 acres (4.64 mi², 12.08 km²).

DRAINAGE AREA.--35.7 mi² (92.5 km²).

PERIOD OF RECORD.--February 1958 to August 1958 (weekly), incomplete, September 1958 to current year. Records of elevations prior to October 1960 are in the files of the Geological Survey.

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 (150 m) north at datum 63.22 ft (19.269 m) higher. Sept. 9, 1963, to Jan. 29, 1974, at present site at datum 63.22 ft (19.269 m) higher.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 67.52 ft (20.580 m) Sept. 12,15, 1960; minimum daily, 64.86 ft (19.769 m) June 1, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 67.04 ft (20.434 m) Aug. 13; minimum daily, 65.50 ft (19.964 m) May 31.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66.30	66.18	66.18	66.22	66.16	66.38	66.06	65.60	65.56	65.74	66.70	66.48
2	66.28	66.16	66.18	66.20	66.20	66.36	66.06	65.60	65.58	65.74	66.70	66.46
3	66.26	66.18	66.18	66.20	66.20	66.48	66.04	65.64	65.58	65.72	66.90	66.42
4	66.26	66.24	66.16	66.18	66.18	66.46	66.04	65.78	65.62	65.72	66.88	66.42
5	66.24	66.22	66.16	66.18	66.16	66.42	66.02	65.76	65.64	65.74	66.88	66.42
6	66.22	66.22	66.22	66.16	66.16	66.42	66.00	65.80	65.62	65.76	66.86	66.40
7	66.22	66.20	66.20	66.16	66.14	66.40	65.98	65.80	65.62	65.76	66.84	66.38
8	66.20	66.20	66.16	66.18	66.14	66.38	65.96	65.80	65.64	65.74	66.82	66.36
9	66.18	66.18	66.22	66.20	66.20	66.44	65.94	65.78	65.64	65.76	66.80	66.34
10	66.16	66.18	66.20	66.18	66.20	66.42	65.92	65.78	65.64	65.76	66.78	66.32
11	66.20	66.16	66.18	66.18	66.18	66.40	65.90	65.76	65.66	65.84	66.92	66.30
12	66.20	66.14	66.18	66.16	66.18	66.38	65.88	65.74	65.68	65.86	66.94	66.28
13	66.18	66.12	66.16	66.22	66.18	66.38	65.86	65.72	65.66	65.84	67.04	66.26
14	66.16	66.10	66.20	66.22	66.16	66.36	65.84	65.70	65.66	65.86	67.02	66.24
15	66.14	66.10	66.24	66.20	66.16	66.34	65.82	65.68	65.66	65.98	67.00	66.22
16	66.12	66.10	66.28	66.18	66.24	66.32	65.80	65.66	65.64	65.98	66.96	66.20
17	66.10	66.08	66.28	66.20	66.24	66.30	65.80	65.68	65.62	66.02	66.94	66.20
18	66.08	66.08	66.24	66.18	66.40	66.28	65.78	65.68	65.60	66.04	66.90	66.26
19	66.08	66.08	66.24	66.28	66.40	66.26	65.76	65.68	65.58	66.18	66.88	66.24
20	66.08	66.06	66.22	66.28	66.44	66.24	65.74	65.66	65.56	66.22	66.84	66.22
21	66.06	66.06	66.24	66.28	66.44	66.22	65.72	65.66	65.60	66.24	66.82	66.22
22	66.06	66.04	66.22	66.26	66.44	66.21	65.70	65.64	65.66	66.26	66.78	66.20
23	66.10	66.18	66.20	66.26	66.44	66.20	65.70	65.64	65.72	66.24	66.74	66.20
24	66.14	66.18	66.20	66.24	66.42	66.20	65.68	65.62	65.72	66.24	66.70	66.18
25	66.20	66.16	66.22	66.22	66.42	66.18	65.66	65.62	65.80	66.28	66.68	66.18
26	66.22	66.16	66.24	66.22	66.40	66.18	65.64	65.60	65.80	66.30	66.66	66.16
27	66.22	66.16	66.24	66.20	66.40	66.16	65.62	65.58	65.78	66.46	66.64	66.14
28	66.20	66.14	66.24	66.20	66.38	66.14	65.60	65.56	65.78	66.52	66.62	66.12
29	66.20	66.20	66.22	66.18	---	66.12	65.60	65.54	65.76	66.64	66.58	66.10
30	66.18	66.20	66.24	66.18	---	66.10	65.58	65.52	65.76	66.64	66.54	66.16
31	66.18	---	66.24	66.16	---	66.08	---	65.50	---	66.66	66.50	---
MEAN	66.17	66.15	66.21	66.21	66.27	66.30	65.82	65.67	65.66	66.06	66.80	66.27
MAX	66.30	66.24	66.28	66.28	66.44	66.48	66.06	65.80	65.80	66.66	67.04	66.48
MIN	66.06	66.04	66.16	66.16	66.14	66.08	65.58	65.50	65.56	65.72	66.50	66.10
CAL YR 1977	MEAN 65.97		MAX 66.40	MIN 65.24								
WTR YR 1978	MEAN 66.13		MAX 67.04	MIN 65.50								

SOUTHERN 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 (7.2 km) east of Waverly, and 5.5 mi (8.8 km) northeast of town of Lake Wales.

SURFACE AREA.--3,736 acres (5.84 mi², 15.12 km²).

DRAINAGE AREA.--58.9 mi² (152.6 km²).

PERIOD OF RECORD.--

ELEVATION: December 1947 to September 1971, October 1971 to current year (fragmentary). Prior to August 1959, records for Catfish Creek near Lake Wales (station 02267000). Records of elevations prior to October 1960 are available in files of the Geological Survey.

WATER TEMPERATURE: October 1975 to current year. Records of miscellaneous temperature observations prior to October 1975 are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is 72.13 ft (21.985 m) National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Prior to Aug. 20, 1959, water-stage recorder on left bank of Catfish Creek 0.2 mi (0.3 km) downstream from lake. Aug. 21, 1959, to Sept. 30, 1971, water-stage recorder at present site and datum. Gage readings have been reduced to elevations NGVD.

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

EXTREMES FOR PERIOD OF RECORD.--

ELEVATION: Maximum daily elevation, 78.91 ft (24.052 m) Sept. 17,18, 1960; minimum daily, 75.31 ft (22.954 m) June 1, 1967.

WATER TEMPERATURE: (1975-78): Maximum observed, 32.5°C July 5, 1978; minimum observed, 12.0°C Jan. 25, 1977.

ELEVATION AND WATER TEMPERATURE, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	TEMPER- ATURE (DEG C)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	TEMPER- ATURE (DEG C)
OCT 05...	0910	77.15	--	MAY 25...	0945	76.74	28.5
NOV 29...	1745	76.81	21.0	JUL 05...	1200	76.87	32.5
DEC 05...	1010	76.87	--	AUG 31...	1705	77.16	31.0
FEB 23...	1420	77.16	13.0	SEP 06...	1100	77.23	29.5

02268400 LAKE WEOHYAKAPKA AT INDIAN LAKE ESTATES, FL

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 62.70 ft (19.111 m) July 29; minimum daily, 60.36 ft (18.398 m) Oct. 15, 22.

[illegible]

SOUTHERN FLORIDA

KISSIMMEE RIVER BASIN

02268600 LAKE ROSALIE NEAR LAKE WALES, FL

LOCATION.--Lat 27°56'26", long 81°25'12", in SE¼ sec.21, T.29 S., R.29 E., Polk County, Hydrologic Unit 03090101, on northwest side of lake, in boat basin at Monroe's Trailer Park, 11 mi (18 km) northeast of town of Lake Wales.

SURFACE AREA.--4,592 acres (7.18 mi², 18.58 km²).

DRAINAGE AREA.--133 mi² (344 km²).

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 available in the files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Prior to Mar. 5, 1942, nonrecording gage at site 1.3 mi (2.1 km) northeast at datum 53.19 ft (16.212 m) higher. Mar. 5, 1942 to July 27, 1942, and Mar. 20, 1958 to Sept. 19, 1974, recording and nonrecording gages at several sites within 1.5 mi (2.4 km) at datum 49.41 ft (15.060 m) higher.

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 daily elevation, 55.93 ft (17.047 m) Oct. 3, 1960; minimum daily, 50.30 ft (15.331 m) June 2-4, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 55.04 ft (16.776 m) Aug. 1; minimum daily, 52.14 ft (15.892 m) Oct. 23.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52.30	52.20	52.70	53.62	53.80	54.10	53.64	52.60	52.58	52.94	55.04	53.96
2	52.28	52.20	52.74	53.62	53.80	54.10	53.56	52.60	52.58	52.92	55.02	53.90
3	52.26	52.20	52.80	53.60	53.80	54.10	53.52	52.58	52.56	52.92	54.98	53.86
4	52.26	52.54	52.76	53.60	53.84	54.29	53.50	52.60	52.68	52.96	54.96	53.80
5	52.26	52.40	52.78	53.58	53.86	54.34	53.44	52.92	52.66	52.96	54.90	53.84
6	52.26	52.40	52.78	53.56	53.86	54.36	53.42	52.96	52.64	52.96	54.88	53.88
7	52.28	52.40	52.78	53.56	53.84	54.38	53.38	53.00	52.68	52.96	54.82	53.84
8	52.26	52.40	52.78	53.56	53.84	54.36	53.34	53.00	52.74	53.10	54.74	53.80
9	52.16	52.40	52.78	53.56	53.80	54.38	53.30	53.00	52.76	53.16	54.72	53.74
10	52.18	52.40	52.80	53.58	53.80	54.44	53.26	52.98	52.76	53.22	54.70	53.70
11	52.20	52.40	52.80	53.58	53.80	54.41	53.24	52.96	52.74	53.24	54.62	53.65
12	52.20	52.40	52.80	53.56	53.80	54.40	53.20	52.92	52.74	53.28	54.62	53.60
13	52.24	52.38	52.86	53.56	53.80	54.36	53.17	52.90	52.74	53.40	54.60	53.56
14	52.24	52.36	53.02	53.58	53.80	54.30	53.16	52.86	52.74	53.42	54.64	53.50
15	52.20	52.36	53.10	53.60	53.80	54.30	53.10	52.80	52.70	53.40	54.60	53.46
16	52.20	52.36	53.18	53.62	53.80	54.26	53.06	52.76	52.70	53.52	54.58	53.46
17	52.18	52.36	53.22	53.66	53.84	54.20	53.02	52.74	52.74	53.58	54.56	53.42
18	52.18	52.36	53.26	53.64	53.94	54.14	53.00	52.82	52.72	53.70	54.50	53.44
19	52.18	52.36	53.26	53.64	54.02	54.10	52.98	52.84	52.68	53.88	54.44	53.38
20	52.18	52.36	53.30	53.76	54.10	54.06	53.00	52.82	52.68	54.16	54.44	53.32
21	52.16	52.36	53.30	53.80	54.10	54.05	52.96	52.80	52.66	54.18	54.44	53.26
22	52.16	52.36	53.30	53.80	54.10	54.00	52.92	52.74	52.76	54.20	54.42	53.20
23	52.14	52.36	53.30	53.82	54.10	53.98	52.88	52.74	52.82	54.24	54.38	53.20
24	52.16	52.58	53.30	53.82	54.12	53.94	52.86	52.72	52.90	54.30	54.34	53.14
25	52.18	52.60	53.30	53.82	54.12	53.90	52.80	52.70	52.98	54.34	54.34	53.12
26	52.20	52.60	53.30	53.80	54.10	53.85	52.78	52.68	52.98	54.34	54.28	53.08
27	52.22	52.58	53.40	53.80	54.10	53.74	52.72	52.64	53.00	54.38	54.24	53.04
28	52.20	52.60	53.48	53.80	54.10	53.74	52.68	52.66	53.02	54.70	54.18	53.00
29	52.20	52.60	53.50	53.80	---	53.70	52.66	52.64	53.00	54.90	54.14	52.94
30	52.20	52.70	53.62	53.80	---	53.66	52.62	52.62	52.98	54.97	54.08	52.94
31	52.20	---	53.62	53.80	---	53.64	---	52.60	---	54.98	54.00	---
MEAN	52.21	52.42	53.09	53.67	53.92	54.12	53.11	52.78	52.76	53.72	54.55	53.47
MAX	52.30	52.70	53.62	53.82	54.12	54.44	53.64	53.00	53.02	54.98	55.04	53.96
MIN	52.14	52.20	52.70	53.56	53.80	53.64	52.62	52.58	52.56	52.92	54.00	52.94
CAL YR 1977	MEAN 52.50		MAX 53.64	MIN 51.58								
WTR YR 1978	MEAN 53.32		MAX 55.04	MIN 52.14								

SOUTHERN FLORIDA

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KISSIMMEE RIVER BASIN

02268800 LAKE MARIAN NEAR KENANSVILLE, FL

LOCATION.--Lat 27°52'09", long 81°02'36", in SW¼ sec.17, T.30 S., R.33 E., Osceola County, Hydrologic Unit 03090101, on north shore near east end of lake in stub canal, 4 mi (6 km) west of Kenansville.

SURFACE AREA.--5,727 acres (8.95 mi², 23.18 km²).

DRAINAGE AREA.--49.6 mi² (128.5 km²).

PERIOD OF RECORD.--February 1958 to current year (weekly), incomplete. Records of elevations prior to October 1960 are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (South Florida Water Management District bench mark). Prior to Nov. 16, 1972, at present site and other nearby sites at datum 57.02 ft (17.380 m) higher.

REMARKS.--Lake is in the headwaters of Kissimmee River. Outflow is through a canal to Lake Jackson, thence through Jackson Canal to Lake Kissimmee. During high water there is flow through Fodderstack Slough to Jackson Canal.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 61.63 ft (18.785 m) Sept. 27, 1960; minimum daily, 56.60 ft (17.252 m) July 16, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 60.28 ft (18.373 m) Aug. 4; minimum daily, 57.32 ft (17.471 m) June 20.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	57.68	---	58.00	---	---	---	---	---	---	---	---
2	58.60	---	---	---	---	---	---	---	---	---	---	---
3	---	---	57.62	---	---	---	---	---	---	---	---	---
4	---	---	---	---	58.30	58.92	---	---	---	---	60.28	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	57.62	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	59.00
8	---	---	---	58.00	---	---	---	---	---	---	60.24	---
9	57.56	---	---	---	---	---	---	---	57.55	---	---	---
10	---	---	57.60	---	---	---	---	---	---	---	---	---
11	---	---	---	---	58.42	59.06	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	57.46	---	---	58.35	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	58.00	---	---	---	---	---	---	---	---
16	57.50	---	---	---	---	---	---	---	---	---	59.73	---
17	---	---	58.00	---	---	---	---	---	---	---	---	---
18	---	---	---	---	58.64	58.72	---	---	---	58.40	---	---
19	---	---	---	---	---	---	---	---	---	58.50	---	---
20	57.50	57.56	---	---	---	---	---	---	57.32	---	---	---
21	---	---	---	---	---	---	---	---	---	---	59.60	---
22	---	---	58.07	58.28	---	---	---	---	---	---	---	58.50
23	57.56	---	---	---	---	---	---	57.66	---	---	---	---
24	---	---	58.00	---	---	---	---	---	---	59.30	---	---
25	---	---	---	---	---	58.60	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	57.68	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	58.76	---	---	---	---	---	---	58.38
29	---	---	---	58.30	---	---	---	---	---	59.85	---	58.40
30	57.56	---	---	---	---	---	---	---	---	---	59.07	---
31	---	---	56.02	---	---	58.00	---	---	---	---	---	---

SOUTHERN FLORIDA

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 (0.2 km) downstream from bridge on State Highway 60, and 25 mi (40 km) south-east of town of Lake Wales.

SURFACE AREA.--34,710 acres (54.2 mi², 140.5 km²).

DRAINAGE AREA.--1,607 mi² (4,162 km²) 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 available in files of the Geological Survey. 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.

GAGE.--Dual 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 (0.381 m) lower. Mar. 16, 1942, to May 11, 1950, water-stage recorder on southwest shore of lake at datum 46.94 ft (14.307 m) higher. May 11, 1950, to June 10, 1965, water-stage recorder near northwest end of lake, at datum 46.94 (14.307 m) 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. Subsequent to 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.

COOPERATION.--Records furnished by South Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 56.64 ft (17.264 m) Oct. 12,13, 1953; minimum daily, 42.87 ft (13.067 m) May 25, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 51.78 ft (15.782 m) Aug. 2; minimum daily 47.90 ft (14.600 m) Oct. 1.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47.90	48.54	49.29	50.78	50.85	50.91	50.84	50.14	49.48	49.97	51.74	51.41
2	47.99	48.47	49.40	50.86	50.86	50.89	50.85	50.14	49.51	49.98	51.78	51.43
3	48.10	48.47	49.41	50.94	50.96	50.97	50.83	50.05	49.53	49.99	51.67	51.48
4	48.13	48.54	49.36	50.89	51.15	51.32	50.82	50.20	49.62	49.98	51.65	51.50
5	48.10	48.72	49.32	50.86	51.03	51.38	50.81	50.34	49.56	49.98	51.61	51.53
6	48.12	48.71	49.56	50.87	51.05	51.28	50.78	50.15	49.59	50.02	51.50	51.55
7	48.12	48.74	49.62	50.88	50.99	51.14	50.78	50.03	49.62	50.04	51.43	51.54
8	48.10	48.78	49.44	50.82	50.91	51.18	50.77	49.92	49.64	50.07	51.31	51.52
9	48.12	48.78	49.41	51.15	51.05	51.22	50.75	49.91	49.71	50.08	51.36	51.47
10	48.14	48.92	49.61	51.11	51.02	51.38	50.65	49.97	49.74	50.08	51.42	51.41
11	48.20	49.17	49.62	51.10	51.05	51.24	50.64	49.96	49.76	50.13	51.44	51.39
12	48.23	49.03	49.53	51.01	51.00	51.20	50.60	49.92	49.77	50.17	51.51	51.40
13	48.47	48.97	49.51	51.06	50.95	51.12	50.53	49.92	49.76	50.20	51.60	51.15
14	48.37	48.92	49.50	51.27	50.93	51.08	50.65	49.96	49.70	50.23	51.58	50.98
15	48.28	48.88	49.57	51.28	51.04	51.16	50.58	49.84	49.70	50.25	51.55	51.14
16	48.31	48.88	49.76	51.16	51.13	51.17	50.55	49.77	49.70	50.25	51.50	51.17
17	48.34	48.90	49.92	51.14	51.10	51.35	50.45	49.75	49.72	50.33	51.52	51.16
18	48.26	48.94	50.12	51.22	51.05	51.17	50.38	49.78	49.69	50.38	51.60	51.15
19	48.28	48.93	50.19	51.16	51.06	51.00	50.52	49.81	49.66	50.49	51.66	51.18
20	48.28	48.91	50.18	51.36	51.08	50.97	50.60	49.78	49.63	50.58	51.69	51.19
21	48.26	48.91	50.35	51.28	51.15	51.00	50.56	49.76	49.67	50.64	51.69	51.17
22	48.30	48.95	50.41	51.21	51.22	51.04	50.52	49.70	49.72	50.69	51.52	51.19
23	48.33	49.07	50.42	51.15	50.94	51.01	50.34	49.68	49.78	50.75	51.25	51.25
24	48.35	49.11	50.42	51.05	50.87	50.94	50.38	49.66	49.86	50.80	51.40	51.28
25	48.38	49.17	50.47	50.89	50.78	50.93	50.40	49.64	49.89	50.84	51.37	51.30
26	48.43	49.36	50.71	51.11	50.73	50.94	50.47	49.60	49.88	50.87	51.35	51.30
27	48.46	49.16	50.70	51.03	50.78	51.03	50.45	49.61	49.90	50.88	51.30	51.32
28	48.47	49.15	50.68	51.01	50.87	50.94	50.25	49.57	49.97	51.10	51.26	51.32
29	48.46	49.19	50.69	50.94	---	50.99	50.20	49.55	49.98	51.29	51.29	51.30
30	48.47	49.24	50.68	50.86	---	50.93	50.14	49.53	49.98	51.40	51.35	51.30
31	48.51	---	50.74	50.83	---	50.87	---	49.50	---	51.56	51.39	---
MEAN	48.27	48.92	49.95	51.04	50.99	51.09	50.57	49.84	49.72	50.45	51.49	51.32
MAX	48.51	49.36	50.74	51.36	51.22	51.38	50.85	50.34	49.98	51.56	51.78	51.55
MIN	47.90	48.47	49.29	50.78	50.73	50.87	50.14	49.50	49.48	49.97	51.25	50.98
CAL YR 1977	MEAN 46.88		MAX 50.95	MIN 42.87								
WTR YR 1978	MEAN 50.30		MAX 51.78	MIN 47.90								

SOUTHERN FLORIDA

KISSIMMEE RIVER BASIN

02270950 LAKE JUNE-IN-WINTER NEAR LAKE PLACID, FL

LOCATION.--Lat 27°19'19", long 81°25'08", in NE¼ sec.28, T.36 S., R.29 E., Highlands County, Hydrologic Unit 03090101, near northwest bay of lake, at boat pier, 150 ft (45 m) east of Stearns Creek, and 3.6 mi (5.8 km) northwest of town of Lake Placid.

SURFACE AREA.--3,662 acres (5.72 mi², 14.82 km²).

DRAINAGE AREA.--44.0 mi² (114.0 km²).

PERIOD OF RECORD.--April 1945 to December 1952 (weekly), January 1953 to January 1968, February 1968 to current year (weekly). Records of elevations prior to October 1960 are available in files of the Geological Survey. May 1955 to January 1968, records for Stearns Creek near Lake Placid (station 02271000).

GAGE.--Nonrecording gage. Datum of gage is 65.38 ft (19.927 m) National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Prior to Jan 20, 1953, nonrecording gage and Jan. 20, 1953, to May 23, 1955, water-stage recorder, at site on southeast shore of lake on private pier same datum. May 24, 1955, to Jan. 24, 1968, water-stage recorder on Stearns Creek 250 ft (75 m) downstream from Lake June-in-Winter at same datum. Gage readings have been reduced to elevations NGVD.

REMARKS.--Lake is in the Highlands Ridge section of Highlands County and is one of the Lake Placid west chain of lakes which drain northward into Josephine Creek. From Mar. 23, 1955 to Feb. 26, 1968, lake level controlled by a 10-bay sheet-pile stoplog control in Stearns Creek. Subsequent to Feb. 26, 1968, lake level controlled by a 1-culvert stoplog structure 0.6 mi (1.0 km) downstream on Stearns Creek and a 3-culvert stoplog structure 1.6 mi (2.6 km) downstream on Stearns Creek Canal.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 77.58 ft (23.646 m) Oct. 6, 1948; minimum daily, 72.00 ft (21.946 m) May 14, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 74.64 ft (22.750 m) Dec. 21, Feb. 21; minimum daily, 73.28 ft (22.336 m) June 21.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	74.44	74.44	---	---	---	---	---	---
2	---	74.04	---	---	---	---	---	---	---	---	74.56	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	74.48	---	---	---	---	---	---	---	---
5	74.20	---	---	---	---	---	74.28	73.80	---	73.44	---	---
6	74.16	---	---	---	---	---	---	---	---	---	---	73.62
7	---	---	74.58	---	---	---	---	---	73.92	---	---	---
8	---	---	---	---	74.40	---	---	---	---	---	---	---
9	---	74.30	---	---	---	74.62	---	---	---	---	73.96	---
10	---	---	---	---	---	---	---	74.34	---	---	---	---
11	---	---	---	74.46	---	---	---	---	---	---	---	---
12	74.08	---	---	---	---	---	74.18	---	---	73.52	---	---
13	---	---	---	---	---	---	---	---	---	---	---	73.84
14	---	---	74.58	---	---	---	---	---	73.72	---	---	---
15	---	---	---	---	74.46	74.48	---	---	---	---	73.50	---
16	---	74.18	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	74.52	---	---	---	73.86	---	---	73.43	---
19	73.90	---	---	---	---	---	74.04	---	---	73.70	---	---
20	---	---	---	---	---	---	---	---	---	---	---	73.88
21	---	---	74.64	---	74.64	---	---	---	73.28	---	---	---
22	---	---	---	---	---	74.42	---	---	---	---	---	---
23	---	74.16	---	---	---	---	---	---	---	---	73.54	---
24	---	---	---	---	---	---	---	73.92	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	74.04	---	---	74.58	---	---	---	73.91	---	74.08	---	---
27	---	---	---	---	---	---	73.88	---	73.40	---	---	74.12
28	---	---	74.56	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	74.36	---	---	---	---	---	---
30	---	74.40	---	---	---	---	---	---	---	---	73.58	---
31	---	---	---	---	---	---	---	73.82	---	---	73.61	---

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 (10 m) from right bank, 350 ft (107 m) upstream from control structure 68 at Lake Istokpoga, 7.5 mi (12.1 km) northeast of town of Lake Placid, and 12.2 mi (19.6 km) southeast of De Soto City.

SURFACE AREA.--27,500 acres (43.0 mi², 111.3 km²).

DRAINAGE AREA.--607 mi² (1,572 km²).

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 available in the files of the Geological Survey.

REMARKS.--Lake controlled by dam with removable stoplogs in Istokpoga Canal from June 1949 to July 1962. Since July 31, 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.

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 (12.357 m) higher and May 19, 1937, to Aug. 17, 1942, at datum 38.54 ft (11.747 m) higher at site on northwest shore of lake 4 mi (6 km) 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 (10.385 m) higher. July 7, 1965, to Nov. 27, 1973, water-stage recorder at present site at datum 30.00 ft (9.114 m) higher.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 42.9 ft (13.08 m), estimated, Sept. 17, 1945; minimum daily, 35.40 ft (10.790 m) May 30, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 39.82 ft (12.137 m) Feb. 19; minimum daily, 37.59 ft (11.457 m) June 2.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38.24	38.33	38.69	39.37	39.54	39.40	38.71	37.96	37.61	37.96	39.08	38.53
2	38.25	38.29	38.75	39.40	39.54	39.36	38.68	37.97	37.59	37.98	39.06	38.53
3	38.27	38.30	38.78	39.44	39.58	39.36	38.64	37.92	37.60	38.00	38.98	38.55
4	38.29	38.37	38.77	39.42	39.68	39.53	38.63	37.83	37.61	38.00	38.91	38.57
5	38.26	38.45	38.76	39.40	39.63	39.49	38.63	37.94	37.62	38.02	38.85	38.59
6	38.23	38.45	38.94	39.41	39.64	39.45	38.62	37.96	37.69	38.03	38.73	38.63
7	38.22	38.45	38.95	39.41	39.59	39.40	38.62	38.13	37.64	38.07	38.63	38.68
8	38.21	38.46	38.88	39.38	39.54	39.40	38.61	38.11	37.65	38.14	38.55	38.68
9	38.21	38.45	38.89	39.57	39.69	39.53	38.58	38.10	37.76	38.14	38.49	38.69
10	38.21	38.50	39.00	39.51	39.68	39.63	38.53	38.13	37.76	38.15	38.55	38.70
11	38.23	38.56	38.98	39.50	39.61	39.49	38.50	38.08	37.81	38.15	38.50	38.76
12	38.28	38.48	38.95	39.46	39.57	39.42	38.47	38.03	37.88	38.14	38.47	38.79
13	38.37	38.45	38.95	39.47	39.54	39.32	38.43	37.99	37.84	38.14	38.44	38.79
14	38.31	38.41	38.97	39.55	39.60	39.25	38.44	37.99	37.76	38.16	38.44	38.79
15	38.25	38.38	39.01	39.55	39.60	39.22	38.40	37.91	37.72	38.16	38.45	38.81
16	38.27	38.38	39.10	39.50	39.61	39.20	38.36	37.81	37.71	38.18	38.46	38.82
17	38.27	38.39	39.18	39.51	39.67	39.26	38.30	37.76	37.68	38.21	38.49	38.81
18	38.22	38.41	39.25	39.58	39.71	39.11	38.25	37.78	37.63	38.26	38.53	38.82
19	38.22	38.40	39.24	39.55	39.82	39.02	38.28	37.84	37.60	38.38	38.64	38.82
20	38.22	38.38	39.22	39.72	39.81	38.97	38.30	37.82	37.62	38.49	38.66	38.83
21	38.21	38.37	39.28	39.64	39.80	38.97	38.24	37.84	37.65	38.48	38.66	38.81
22	38.22	38.35	39.29	39.64	39.75	38.99	38.19	37.78	37.71	38.48	38.57	38.82
23	38.24	38.39	39.28	39.64	39.57	38.97	38.10	37.73	37.74	38.47	38.42	38.82
24	38.25	38.45	39.27	39.62	39.51	38.94	38.11	37.68	37.79	38.46	38.48	38.86
25	38.30	38.49	39.28	39.58	39.46	38.93	38.14	37.65	37.83	38.47	38.49	38.94
26	38.32	38.56	39.37	39.70	39.42	38.95	38.19	37.64	37.88	38.51	38.49	38.97
27	38.34	38.45	39.36	39.64	39.39	38.96	38.12	37.64	37.91	38.51	38.48	38.99
28	38.33	38.44	39.33	39.64	39.39	38.87	38.05	37.63	37.94	38.67	38.47	38.99
29	38.31	38.50	39.34	39.62	---	38.87	38.01	37.64	37.95	38.73	38.49	38.99
30	38.31	38.63	39.32	39.57	---	38.83	37.99	37.64	37.96	38.83	38.51	39.00
31	38.33	---	39.34	39.53	---	38.77	---	37.63	---	38.90	38.53	---
MEAN	38.26	38.43	39.09	39.53	39.61	39.19	38.37	37.86	37.74	38.30	38.60	38.78
MAX	38.37	38.63	39.37	39.72	39.82	39.63	38.71	38.13	37.96	38.90	39.08	39.00
MIN	38.21	38.29	38.69	39.37	39.39	38.77	37.99	37.63	37.59	37.96	38.42	38.53

CAL YR 1977 MEAN 38.21 MAX 39.69 MIN 36.80
WTR YR 1978 MEAN 38.64 MAX 39.82 MIN 37.59

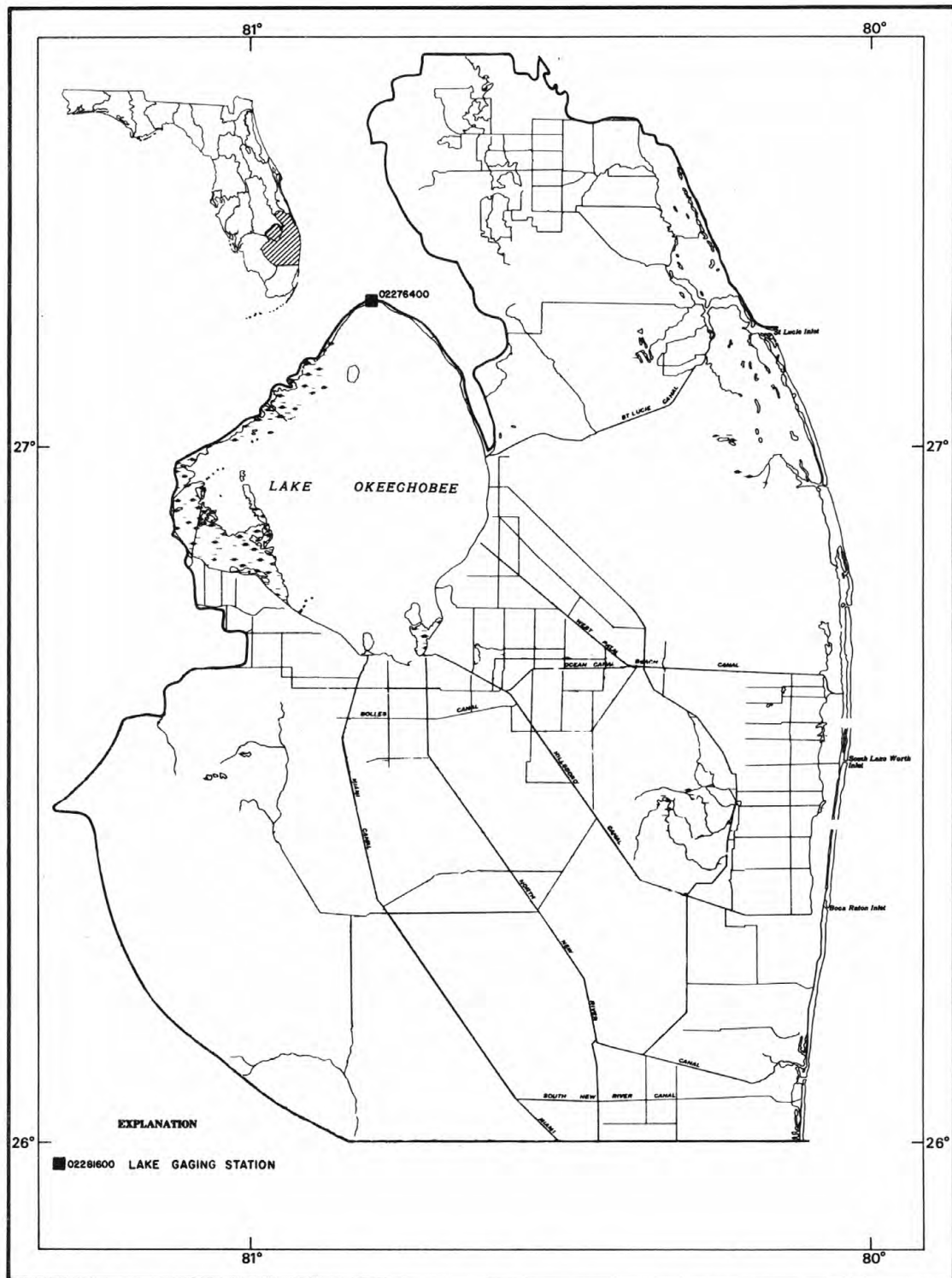


Figure 13. Location of lake gaging stations in the portion of the Everglades and the southeastern coastal area north of latitude 26 degrees

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 mi², 1,764 km²) at elevation 14 ft (4.3 m) above NGVD, from data furnished by Corps of Engineers.DRAINAGE AREA.--About 5,650 mi² (14,634 km²).

PERIOD OF RECORD.--October 1931 to current year. Records of elevations prior to October 1960 are available as follows: from 1912 to 1914 in reports or files of Corps of Engineers, 1915 to 1931 in reports or files of Everglades Drainage District, and October 1931 to 1960 in files of the Geological Survey.

REVISED RECORDS.--WRD FL 1969: Surface area, capacity table; WRD FL 1972: capacity table; WRD FL 1977: capacity table.

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

GAGE.--Three water-stage recorders at Hurricane Gate No. 2, Hurricane Gate No. 6 and Port Mayaca. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by 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 (0.308 m) lower. Oct. 1, 1933, to Sept. 30, 1946, at datum 1.44 ft (0.439 m) lower.

REMARKS.--Reservoir is formed by diked natural lake. Lake level regulated by gates at several lake outlets. Total usable capacity of lake, 2,175,000 acre-ft (2,680 hm³) between elevations 10.5 ft (3.20 m) and 16.0 ft (4.88 m). Lake is used for navigation, municipal water supply, and to store water for irrigation and flood control.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 24.0 ft (7.32 m) Aug. 26, 1949, at Hurricane Gate No. 4 (wind affect); maximum daily elevation, 18.77 ft (5.721 m) Nov. 2, 1947; minimum daily, 10.14 ft (3.091 m) Aug. 17, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum daily elevation, 16.56 ft (5.047 m) Sept. 17, 30; minimum daily, 13.22 ft (4.029 m) Oct. 30, Nov. 1.

Capacity table, water year 1977-78 (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	5,293,000
14.0	3,530,000	19.0	5,757,000

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.71	13.22	13.72	14.36	14.67	14.85	15.15	14.57	14.58	14.65	15.53	16.35
2	13.70	13.24	13.74	14.36	14.66	14.86	15.13	14.53	14.58	14.62	15.64	16.36
3	13.70	13.27	13.77	14.35	14.66	14.89	15.10	14.54	14.57	14.62	15.72	16.40
4	13.65	13.45	13.75	14.36	14.65	14.91	15.08	14.51	14.56	14.63	15.78	16.39
5	13.63	13.58	13.77	14.37	14.64	14.93	15.07	14.56	14.58	14.62	15.85	16.40
6	13.61	13.62	13.92	14.36	14.63	14.94	15.05	14.64	14.60	14.65	15.93	16.41
7	13.59	13.63	13.91	14.36	14.62	14.96	15.04	14.74	14.63	14.66	15.99	16.44
8	13.59	13.61	13.90	14.39	14.62	15.00	15.03	14.78	14.65	14.66	16.05	16.43
9	13.59	13.61	14.00	14.44	14.64	15.11	15.01	14.79	14.67	14.70	16.10	16.43
10	13.58	13.60	14.06	14.36	14.65	15.21	14.99	14.80	14.67	14.70	16.13	16.44
11	13.59	13.54	14.11	14.32	14.64	15.23	14.96	14.79	14.68	14.69	16.19	16.50
12	13.59	13.49	14.14	14.34	14.64	15.26	14.93	14.77	14.68	14.71	16.23	16.54
13	13.51	13.46	14.16	14.39	14.64	15.28	14.91	14.77	14.68	14.72	16.31	16.54
14	13.46	13.40	14.18	14.43	14.64	15.31	14.88	14.77	14.66	14.74	16.31	16.55
15	13.47	13.46	14.20	14.40	14.65	15.32	14.85	14.76	14.62	14.80	16.32	16.53
16	13.42	13.45	14.26	14.37	14.66	15.33	14.81	14.71	14.60	14.84	16.29	16.52
17	13.37	13.45	14.31	14.37	14.68	15.33	14.78	14.68	14.53	14.83	16.36	16.56
18	13.35	13.43	14.35	14.39	14.70	15.32	14.76	14.69	14.49	14.87	16.34	16.55
19	13.32	13.43	14.35	14.43	14.71	15.32	14.76	14.72	14.48	14.88	16.34	16.51
20	13.30	13.42	14.36	14.56	14.74	15.31	14.75	14.73	14.45	14.92	16.32	16.49
21	13.26	13.41	14.38	14.58	14.77	15.31	14.73	14.72	14.48	14.94	16.32	16.50
22	13.24	13.39	14.35	14.59	14.80	15.30	14.71	14.71	14.51	14.97	16.30	16.48
23	13.25	13.40	14.35	14.62	14.82	15.30	14.69	14.69	14.59	14.99	16.34	16.48
24	13.26	13.50	14.35	14.65	14.83	15.29	14.68	14.68	14.60	15.01	16.37	16.51
25	13.29	13.55	14.37	14.67	14.83	15.28	14.72	14.65	14.63	15.03	16.40	16.53
26	13.31	13.52	14.36	14.71	14.84	15.27	14.70	14.63	14.66	15.05	16.41	16.54
27	13.29	13.49	14.34	14.68	14.84	15.26	14.66	14.61	14.69	15.07	16.40	16.54
28	13.28	13.50	14.34	14.69	14.85	15.25	14.62	14.60	14.69	15.16	16.34	16.54
29	13.26	13.56	14.34	14.69	---	15.23	14.60	14.60	14.68	15.26	16.33	16.55
30	13.22	13.69	14.35	14.66	---	15.21	14.57	14.59	14.68	15.36	16.32	16.56
31	13.28	---	14.35	14.65	---	15.19	---	14.59	---	15.43	16.35	---
MEAN	13.44	13.48	14.16	14.48	14.70	15.18	14.86	14.67	14.61	14.86	16.18	16.49
MAX	13.71	13.69	14.38	14.71	14.85	15.33	15.15	14.80	14.69	15.43	16.41	16.56
MIN	13.22	13.22	13.72	14.32	14.62	14.85	14.57	14.51	14.45	14.62	15.53	16.35

CAL YR 1977 MEAN 13.55 MAX 14.58 MIN 12.35
WTR YR 1978 MEAN 14.76 MAX 16.56 MIN 13.22

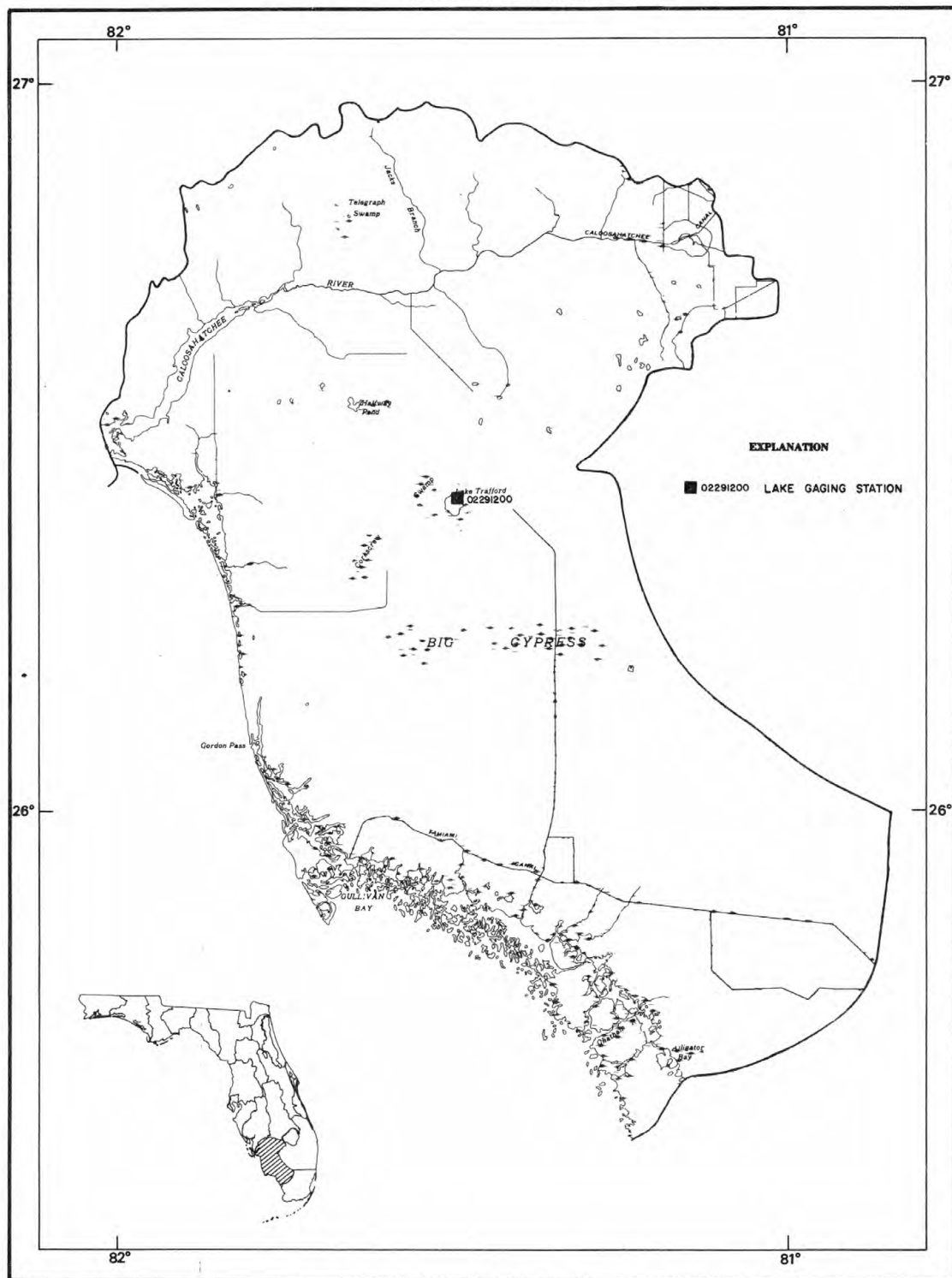


Figure 14. Location of the lake gaging station in the Big Cypress Swamp and southeastern coastal area; and the Caloosahatchee River

SOUTHERN FLORIDA

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EVERGLADES AND SOUTHEASTERN COASTAL AREA

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 (7.2 km) west of Immokalee.

SURFACE Area.--1,479 acres (2.31 mi², 5.98 km²).

DRAINAGE AREA.--30 mi² (77.7 km²), 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 (5.008 m) 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 (0.5 km) 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 (6.4 m), when there is overflow to the south into Corkscrew Swamp.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 22.79 ft (6.946 m) Sept. 23, 1947; minimum, 15.9 ft (4.85 m) estimated June 6-10, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 20.23 ft (6.166 m) estimated Oct. 1; minimum, 18.87 ft (5.752 m) June 19.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.23	19.88	19.70	19.70	19.69	19.70	19.78	19.48	19.04	19.27	20.09	20.00
2	20.20	19.87	19.71	19.70	19.69	19.69	19.76	19.47	19.02	19.26	20.09	19.99
3	20.19	19.87	19.71	19.70	19.68	19.68	19.74	19.47	19.01	19.25	20.09	19.98
4	20.18	19.86	19.71	19.69	19.66	19.75	19.73	19.49	19.01	19.25	20.09	19.97
5	20.16	19.85	19.72	19.68	19.65	19.74	19.71	19.49	19.02	19.28	20.14	19.96
6	20.15	19.85	19.74	19.66	19.65	19.72	19.70	19.49	19.06	19.33	20.14	19.98
7	20.14	19.85	19.86	19.67	19.64	19.72	19.68	19.49	19.05	19.33	20.13	20.00
8	20.12	19.84	19.86	19.66	19.64	19.72	19.66	19.48	19.05	19.37	20.12	20.01
9	20.10	19.84	19.85	19.66	19.66	19.72	19.65	19.47	19.08	19.37	20.12	20.00
10	20.09	19.83	19.85	19.65	19.65	19.91	19.63	19.44	19.07	19.37	20.12	19.98
11	20.08	19.82	19.85	19.65	19.65	19.96	19.61	19.40	19.08	19.38	20.12	19.97
12	20.06	19.81	19.84	19.65	19.64	19.97	19.59	19.38	19.05	19.36	20.13	19.97
13	20.05	19.81	19.84	19.65	19.64	19.97	19.58	19.37	19.03	19.35	20.15	19.95
14	20.04	19.80	19.83	19.65	19.65	19.97	19.54	19.34	19.00	19.37	20.17	19.94
15	20.02	19.80	19.82	19.64	19.63	19.99	19.52	19.30	18.97	19.51	20.16	19.93
16	20.00	19.79	19.82	19.64	19.60	19.97	19.50	19.27	18.94	19.58	20.16	19.93
17	19.99	19.78	19.81	19.65	19.62	19.92	19.48	19.24	18.91	19.58	20.16	19.89
18	19.98	19.77	19.80	19.65	19.67	19.88	19.47	19.23	18.88	19.59	20.15	19.89
19	19.95	19.76	19.79	19.70	19.70	19.88	19.46	19.21	18.89	19.63	20.13	19.87
20	19.94	19.76	19.78	19.80	19.71	19.88	19.43	19.19	18.92	19.78	20.11	19.85
21	19.95	19.75	19.76	19.80	19.71	19.88	19.39	19.16	18.97	19.81	20.09	19.83
22	19.94	19.75	19.76	19.78	19.73	19.87	19.36	19.13	19.06	19.87	20.07	19.81
23	19.93	19.75	19.75	19.77	19.71	19.86	19.35	19.11	19.06	19.96	20.07	19.82
24	19.92	19.74	19.75	19.76	19.72	19.85	19.56	19.09	19.05	19.99	20.10	19.83
25	19.91	19.74	19.74	19.75	19.71	19.87	19.56	19.07	19.06	19.99	20.09	19.83
26	19.92	19.74	19.74	19.75	19.71	19.89	19.55	19.05	19.07	20.02	20.10	19.81
27	19.92	19.73	19.73	19.74	19.70	19.86	19.52	19.03	19.17	20.01	20.08	19.80
28	19.91	19.73	19.73	19.73	19.70	19.84	19.51	19.01	19.27	20.01	20.06	19.78
29	19.90	19.72	19.72	19.71	---	19.82	19.50	18.98	19.28	20.04	20.05	19.78
30	19.89	19.71	19.71	19.69	---	19.80	19.48	18.97	19.28	20.10	20.04	19.80
31	19.89	---	19.71	19.70	---	19.79	---	18.98	---	20.10	20.02	---
MEAN	20.02	19.79	19.77	19.70	19.67	19.84	19.57	19.27	19.05	19.62	20.11	19.91
MAX	20.23	19.88	19.86	19.80	19.73	19.99	19.78	19.49	19.28	20.10	20.17	20.01
MIN	19.89	19.71	19.70	19.64	19.60	19.68	19.35	18.97	18.88	19.25	20.02	19.78

CAL YR 1977 MEAN 19.29 MAX 20.26 MIN 18.12
WTR YR 1978 MEAN 19.69 MAX 20.23 MIN 18.88

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

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