



Water Resources Data Florida

Water Year 1982

Volume 4. Northwest Florida



U.S.GEOLOGICAL SURVEY WATER-DATA REPORT FL-82-4
Prepared in cooperation with the State of Florida
and with other agencies

CALENDAR FOR WATER YEAR 1982

1981

OCTOBER

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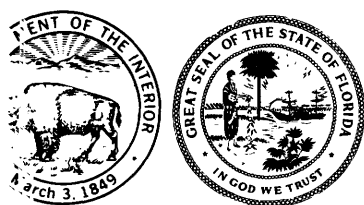
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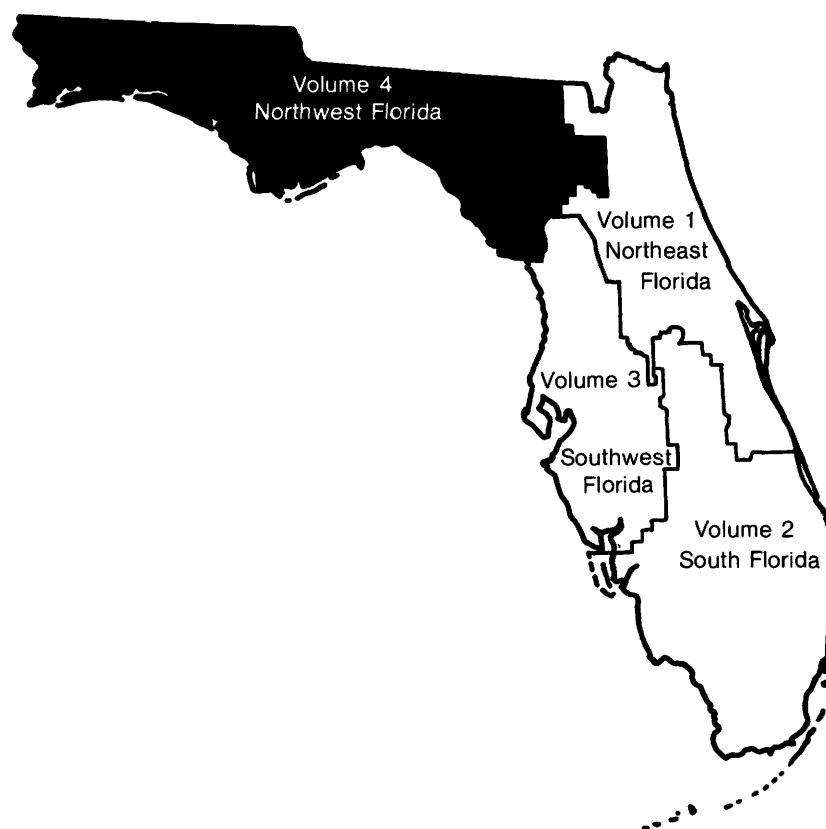
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Prepared in cooperation with the State of Florida
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

JAMES G. WATT, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

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

For additional information write to
Subdistrict Chief, Water Resources Division
U.S. Geological Survey
227 North Bronough Street, Suite 1078
Tallahassee, Florida 32301

1983

PREFACE

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

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

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

T. K. Allen	J. G. Collins	J. M. McClanahan	R. S. Milner
A. E. Alvarez	L. J. Geiger	J. B. Martin	R. A. Orr
L. L. Batts	J. D. Goin	P. E. Meadows	L. A. Shannon
C. W. Calhoun	G. T. Losey	P. R. Messer	F. E. Supianowski
J. E. Coffin			

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

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16. Abstract (Limit: 200 words) Water resources data for the 1982 water year in Florida consists of continuous or daily discharge for 264 streams, periodic discharge for 41 streams, miscellaneous discharge for 71 streams, continuous or daily stage for 102 streams, periodic stage for 15 streams, peak discharge for 83 streams and peak stage for 8 streams; continuous or daily elevations for 102 lakes, periodic elevations for 111 lakes; continuous ground-water levels for 420 wells, periodic ground-water levels for 587 wells, and miscellaneous water-level measurements for 2,794 wells; quality of water data for 327 surface-water sites and 791 wells. The data for northwest Florida includes continuous or daily discharge for 59 streams, periodic discharge for 2 streams, miscellaneous discharge for 17 streams, peak discharge for 41 streams, and continuous or daily stage for 8 streams; continuous elevations for 4 lakes and periodic elevations for 26 lakes; continuous ground-water levels for 38 wells, periodic ground-water levels for 160 wells, and miscellaneous water-level measurements for 264 wells; quality of water for 36 surface-water sites and for 108 wells. These data represent the National Water Data System records collected by the U.S. Geological Survey and cooperating local, state and federal agencies in Florida.				
17. Document Analysis a. Descriptors *Florida, *Hydrologic data, *Surface Water, *Ground Water, *Water Quality, Flow rate, Gaging Stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water levels, Water analyses, Elevations, Water wells b. Identifiers/Open-Ended Terms c. COSATI Field/Group				
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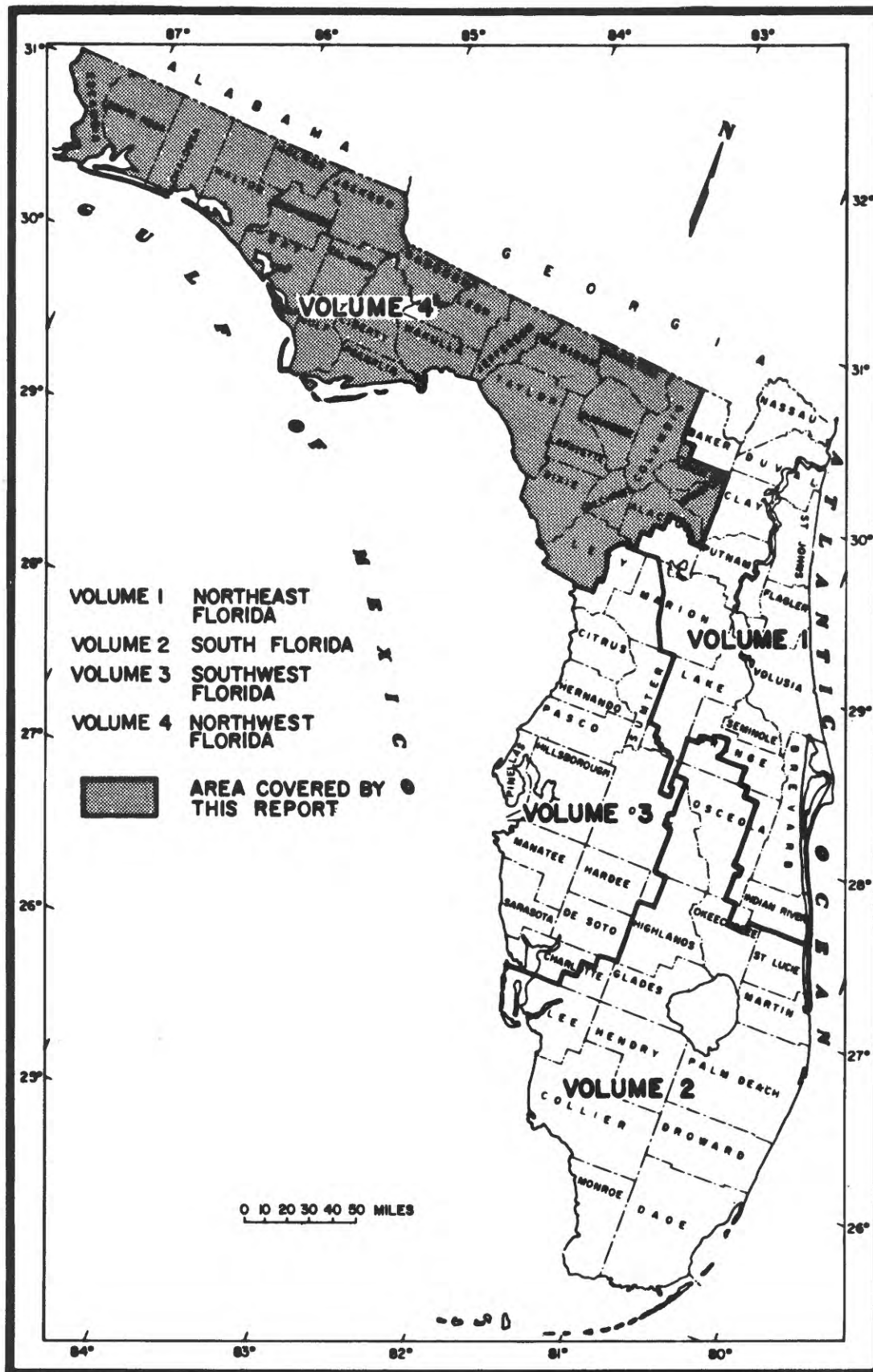


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GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH DATA ARE PUBLISHED
[Letters after station names designate type of data: annual maximum (a),
discharge (d), gage height (g), chemical (c), microbiological (m),
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INTRODUCTION

Water-resources data for the 1982 water year for northwest Florida consist of records of gage height, discharge, and water quality of streams; elevations of lakes and reservoirs; water levels and water quality of ground water; 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 discharge 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 water year 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 U.S. Geological Survey, 604 South Pickett Street, Alexandria, Va. 22304.

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-82-4". 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 Publications Planning Unit, U. S. Geological Survey, Water Resources Division, Reston, VA 22092.

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 (904) 681-7620.

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:

Escambia County Utilities Authority
Florida Department of Environmental Regulation
Florida Department of Transportation
Northwest Florida Water Management District
Suwannee River Authority
Suwannee River Water Management District
County of Leon

County of Walton
City of Perry
City of Quincy
City of Tallahassee
Corps of Engineers, U.S. Army,
Mobile District
U.S. Bureau of Land Management

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DEFINITION OF TERMS

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

Altitude is a value given a gaging station or a ground-water well, for which the elevation of the gage datum has not been determined by leveling from a bench mark. The approximate elevation of the gage was then obtained by barometric observation or from topographic map.

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

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

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 \pm 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 \pm 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in the 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 \pm 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.

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 (ft³/s or cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute.

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 refers to the amount of a substance present in true chemical solution. In practice, however, the term includes all forms of the substance that will pass through a 0.45-micrometer membrane filter, and thus may include some very small (colloidal) suspended particles. Analyses are performed on filtered samples.

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 or 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.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate (CaCO₃).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or district hydrologic feature as delineated by the Office of Water Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by a 8-digit number.

Land-surface datum is a datum that approximates land surface at each well.

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

Organism is any living entity, 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 (m²), acres, or hectares. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Partial-record station is a particular site where limited gage height and 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.

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.

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.

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 can be extracted from bottom material by a particular digestion procedure used in the Central Laboratory. Usually the digestion involves heating with an acid or a mixture of acids. Complete extraction of the constituent is generally not possible by such digestion; hence the amount which is recoverable is somewhat less than the actual amount present in the sample.

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 concentration 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 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. Geological Survey 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 surface areas shown are those for elevations when the 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.

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

Total is the 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.)

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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 manmade 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."

WDR is used as an abbreviation for "Water-Data Reports" published since 1975, in the REVISION paragraph to refer to previously published state annual basic-data reports.

WRD is used as an abbreviation for "Water-Resources Data" in the 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.

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.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

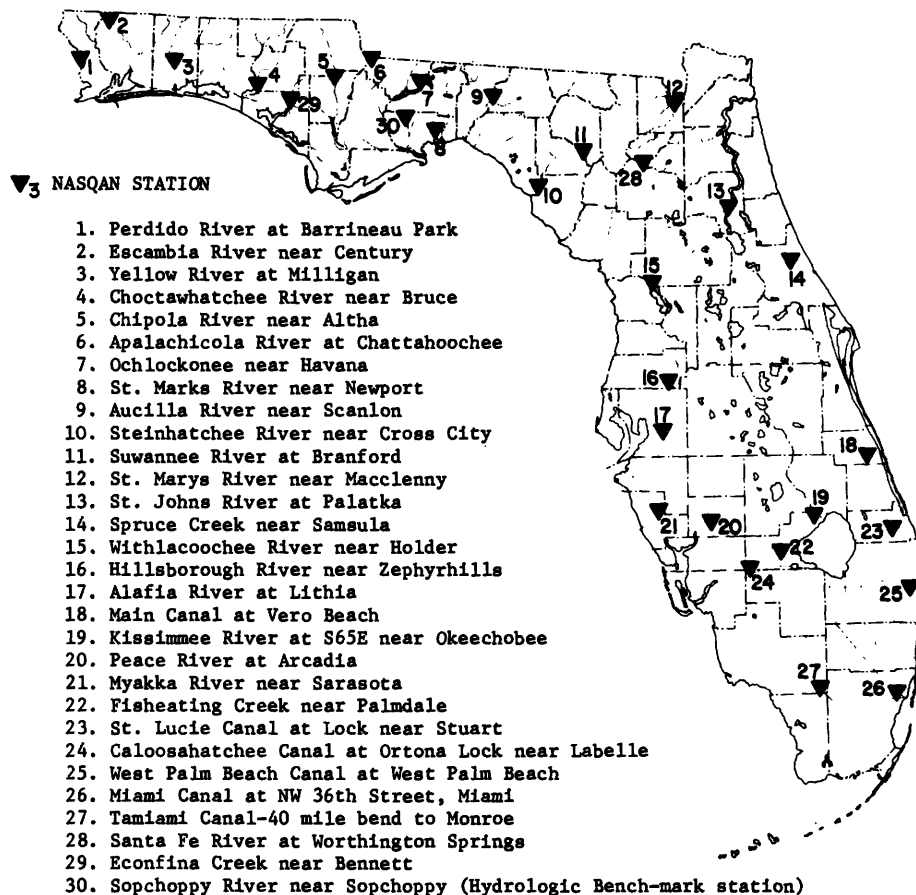


Figure 2. NASQAN Stations in the State of Florida.

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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 main stream stations are listed before the first main stream 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, water-quality station, and some miscellaneous discharge measurement sites have 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 other gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of these 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 some 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 are 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.

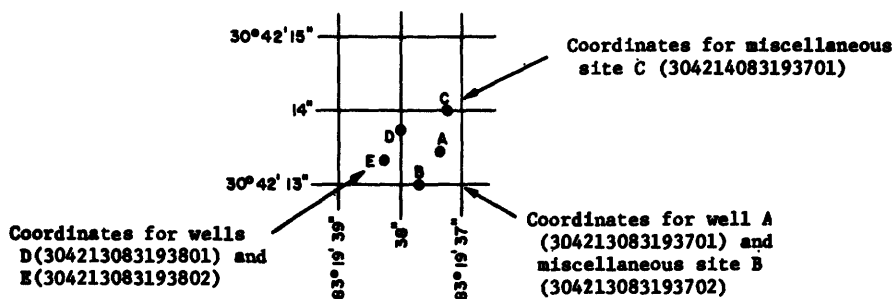


Figure 3. System for numbering wells and miscellaneous sites.
(latitude and longitude)

EXPLANATION OF GAGE HEIGHT AND DISCHARGE RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of gage heights 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 gage height are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives the fluctuations on a paper tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any gage height are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to define the extremes of discharge, they are made on the basis of indirect measurements of peak discharge; such as slope-area, 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 relation was subjected to change because of occasional or continual change in the physical features of 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 the technician are used in applying the gage-height corrections 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 the same method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from streams, tides, 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 a rapid change in 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 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 new 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 of 1929, 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, periods of no gage-height record if the period is continuous for more than 30 days or includes the maximum discharge for the year, and conditions which affect the natural flow of the gaging station is given under "REMARKS." Periods of backwater from an unusual source, of indefinite stage relation, or of any other unusual condition at the gage site are indicated and the accuracy of the records is affected. For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is also given under "REMARKS."

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Records of gage heights, daily discharges, discharge measurements, and elevations of lakes and reservoirs which are furnished in part or all is given under "COOPERATION."

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 water 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 water years of record if the median differs from the average by more than 10 percent.

Under "EXTREMES," the extremes for the period of record are given first, extremes available outside the period of record are given next, and those for the current year are given last. 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.

The daily tables for stream-gaging stations give the mean discharge for each day and are followed by monthly and yearly summaries. In the monthly summary, 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 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, or if the drainage area includes large noncontributing areas. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

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 and miscellaneous stations follow the information for continuous record sites. Data for crest-stage partial-record discharge stations are presented in a table of annual maximum stage and discharge. The table 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 subdistrict offices. 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 Tallahassee Subdistrict office.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

Surface water samples for analyses usually are collected at or near gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

For ground-water records, samples for analyses usually are collected at or near the well head.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, pH, dissolved oxygen, water temperature); extremes for the period of daily record; extremes for the current year; and general remarks.

For data collected at miscellaneous 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.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum and minimum 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 subdistrict 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 digital monitors are located, the records consist of maximum and minimum temperatures for each day, the monthly maximum and minimum temperatures, and the yearly maximum and minimum temperatures.

Sediment

Suspended sediment samples were collected monthly at stations in the Hydrologic Bench-Mark 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 days 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.

Qualifying remarks codes

The following remarks codes may appear with the data in this report:

- E Estimated Value
- < Actual value is known to be less than the value shown
- > Actual value is known to be greater than the value shown
- N Presumptive evidence of presence of material
- ND Material specifically analyzed for but not detected
- K Results based on colony count outside the acceptance
- M Presence of material verified but not quantified range
(non-ideal colony count)

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

Ground-water level data from a 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 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 of access and the methods of measurement are standardized. The equipment and measuring techniques used at each observation well ensure 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 National Geodetic Vertical Datum (NGVD) or feet below land-surface datum. National Geodetic Vertical Datum of 1929 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 datum of the land-surface above National Geodetic Vertical Datum is given in the well description. The height of the measuring point above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported 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

Streamflow conditions during the water year were generally below average throughout northern Florida. Annual mean streamflow at selected gaging stations in the Suwannee and Aucilla River basins ranged from 50 to 90 percent of the long-term average. In the Ochlockonee and Apalachicola River basins, average streamflow was 80 to 84 percent of average; whereas in the Choctawhatchee, Yellow, and Escambia River basins, streamflow was 69 to 96 percent of average. The coastal area, however, was above average, with the largest being Tenmile Creek at Lebanon Station which was 60 percent above average.

Lake elevations in northern Florida generally had a net increase for the water year. Ocean Pond at Olustee reached the maximum observed elevation for the period of record. Lake Jackson near Tallahassee, and Porter Lake near Greenhead in Washington County, continued the decline from last year and reached the minimum elevations since 1959 and 1975 respectively. In Walton County, Lake Jackson near Paxton, had a slight net increase to remain near normal for the current water year.

Water levels in northeast Florida were near normal throughout most of the year. Water levels in Leon and Gadsden Counties were below normal at the beginning of the year, but were near normal by September. Water levels in the Floridan aquifer along coastal and Walton Counties continued to decline; some reached new record lows during July to September.

Ground-water levels in the sand and gravel aquifer of extreme northwest Florida were below normal the entire water year.

PUBLICATIONS OF TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-seven 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, 604 South Pickett St., Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering any of these publications, please give the title, book number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

- 1-D1. WATER TEMPERATURE-INFLUENTIAL FACTORS, FIELD MEASUREMENT, AND DATA PRESENTATION, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
- 1-D2. GUIDELINES FOR COLLECTION AND FIELD ANALYSIS OF GROUND-WATER SAMPLES FOR SELECTED UNSTABLE CONDITIONS, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
- 2-D1. APPLICATION OF SURFACE GEOPHYSICS TO GROUND-WATER INVESTIGATIONS, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
- 2-E1. APPLICATION OF BOREHOLE GEOPHYSICS TO WATER-RESOURCES INVESTIGATIONS, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 3-A1. GENERAL FIELD AND OFFICE PROCEDURES FOR INDIRECT DISCHARGE MEASUREMENTS, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. MEASUREMENT OF PEAK DISCHARGE BY THE SLOPE-AREA METHOD, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. MEASUREMENT OF PEAK DISCHARGE AT CULVERTS BY INDIRECT METHODS, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. MEASUREMENT OF PEAK DISCHARGE AT WIDTH CONTRACTIONS BY INDIRECT METHODS, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. MEASUREMENT OF PEAK DISCHARGE AT DAMS BY INDIRECT METHODS, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. GENERAL PROCEDURE FOR GAGING STREAMS, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. STAGE MEASUREMENTS AT GAGING STATIONS, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. DISCHARGE MEASUREMENTS AT GAGING STATIONS, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A9. MEASUREMENT OF TIME OF TRAVEL AND DISPERSION IN STREAMS BY DYE TRACING, by E. F. Hubbard, F. A. Kilpatrick, L. A. Martens, and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1982. 44 pages.
- 3-A11. MEASUREMENT OF DISCHARGE BY MOVING-BOAT METHOD, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
- 3-B1. AQUIFER-TEST DESIGN, OBSERVATION, AND DATA ANALYSIS, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.
- 3-B2. INTRODUCTION TO GROUND-WATER HYDRAULICS, A PROGRAMED TEXT FOR SELF-INSTRUCTION, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-B3. TYPE CURVES FOR SELECTED PROBLEMS OF FLOW TO WELLS IN CONFINED AQUIFERS, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.
- 3-C1. FLUVIAL SEDIMENT CONCEPTS, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. FIELD METHODS FOR MEASUREMENT OF FLUVIAL SEDIMENT, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
- 3-C3. COMPUTATION OF FLUVIAL-SEDIMENT DISCHARGE, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
- 4-A1. SOME STATISTICAL TOOLS IN HYDROLOGY, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. FREQUENCY CURVES, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
- 4-B1. LOW-FLOW INVESTIGATIONS, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. STORAGE ANALYSES FOR WATER SUPPLY, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. REGIONAL ANALYSES OF STREAMFLOW CHARACTERISTICS, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. COMPUTATION OF RATE AND VOLUME OF STREAM DEPLETION BY WELLS, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 5-A1. METHODS FOR DETERMINATION OF INORGANIC SUBSTANCES IN WATER AND FLUVIAL SEDIMENTS, by M. W. Skougstad, and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.
- 5-A2. DETERMINATION OF MINOR ELEMENTS IN WATER BY EMISSION SPECTROSCOPY, by P. R. Barnett and E. C. Malloy Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. METHODS FOR ANALYSIS OF ORGANIC SUBSTANCES IN WATER, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.
- 5-A4. METHODS FOR COLLECTION AND ANALYSIS OF AQUATIC BIOLOGICAL AND MICROBIOLOGICAL SAMPLES, edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.
- 5-A5. METHODS FOR DETERMINATION OF RADIOACTIVE SUBSTANCES IN WATER AND FLUVIAL SEDIMENTS, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-C1. LABORATORY THEORY AND METHODS FOR SEDIMENT ANALYSIS, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.

- 7-C1. FINITES DIFFERENCES MODEL FOR AQUIFER SIMULATION IN TWO DIMENSIONS WITH RESULTS OF NUMERICAL EXPERIMENTS, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 7-C2. COMPUTER MODEL OF TWO-DIMENSIONAL SOLUTE TRANSPORT AND DISPERSION IN GROUND WATER, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 7-C3. A MODEL FOR SIMULATION OF FLOW IN SINGULAR AND INTERCONNECTED CHANNELS, by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.
- 8-A1. METHODS OF MEASURING WATER LEVELS IN DEEP WELLS, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
- 8-B2. CALIBRATION AND MAINTENANCE OF VERTICAL-AXIS TYPE CURRENT METERS, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

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STAGE, DISCHARGE, AND WATER QUALITY OF STREAMS

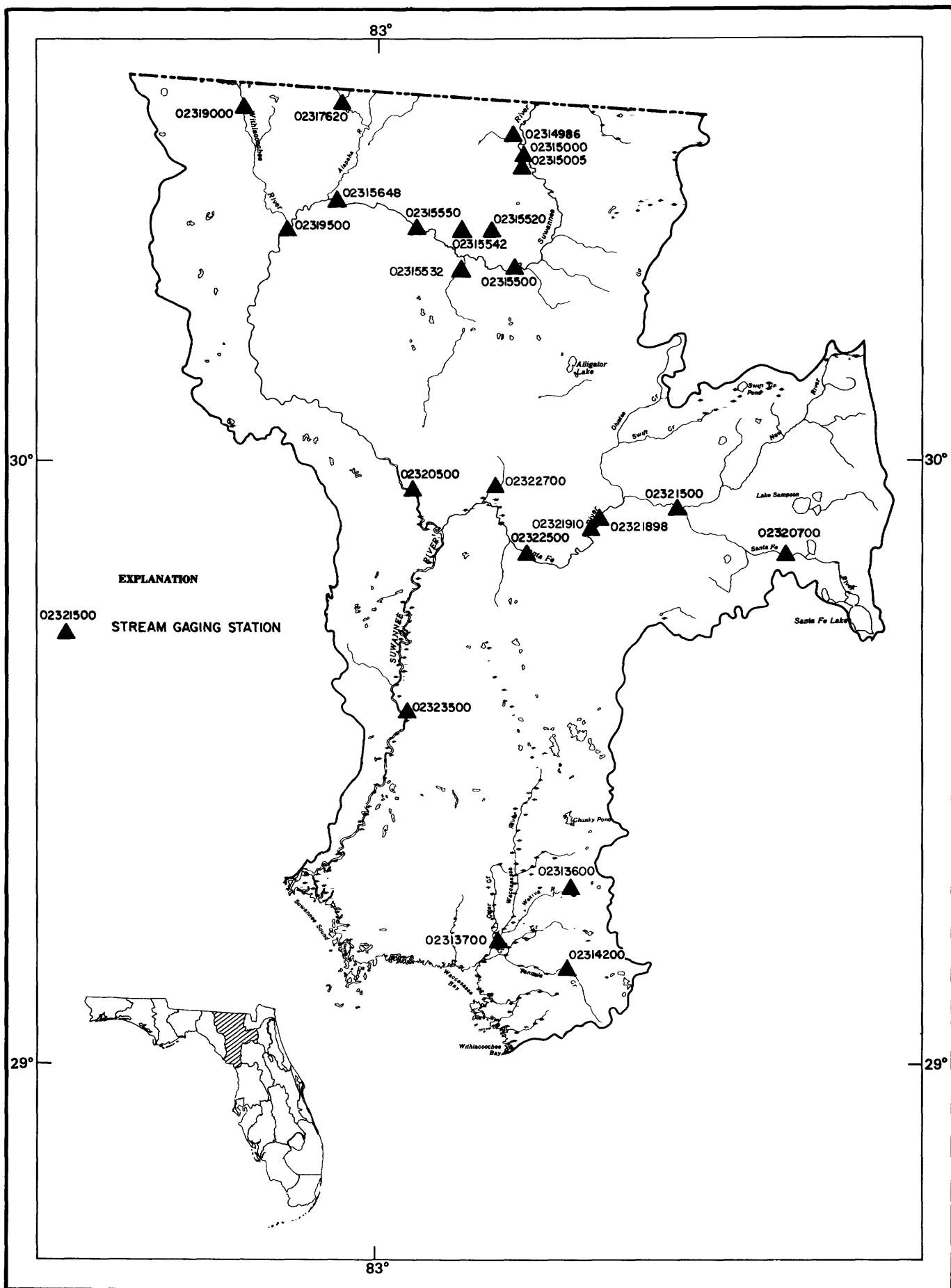


Figure 4. Location of stream gaging stations in the Waccasassa and Suwannee River basins and the coastal area between the Withlacoochee and Suwannee Rivers.

WACCASASSA RIVER BASIN

02313600 WEKIVA SPRINGS NEAR GULF HAMMOCK, FL

LOCATION.--Lat 29°16'49", long 82°39'23", in SW¼ sec.7, T.14 S., R.17 E., Levy County, Hydrologic Unit 03110101, at head of Wekiva River, 4.5 mi (7.2 km) northeast of Gulf Hammock.

PERIOD OF RECORD.--

DISCHARGE: 1917, 1929, 1931-32, 1946, 1956, 1960, 1963-65, 1967-77, October 1978 to current year (one to three discharge measurements each water year).

WATER TEMPERATURE: October 1975 to September 1977, October 1978 to current year. Records of miscellaneous temperature observations prior to October 1975 are available in files of the Geological Survey.

REMARKS.--Since November 1964, dam 1,000 ft (305 m) below spring for reservoir.

COOPERATION.--Discharge measurements furnished by Suwannee River Water Management District.

AVERAGE DISCHARGE.--41 measurements, 55.1 ft³/s, 35.6 mgd (1.560 m³/s).

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum measured, 100 ft³/s (2.83 m³/s) Feb. 1, 1929; minimum measured, 29 ft³/s (0.82 m³/s) June 19, 1967.

WATER TEMPERATURES: Maximum observed, 25.0°C Oct. 1, 1973, (corrected); minimum observed, 22.0°C Sept. 1, 1976.

DISCHARGE MEASUREMENTS AND WATER TEMPERATURES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)
MAY 04...	1510	62

WACCASASSA RIVER BASIN

02313700 WACCASASSA RIVER NEAR GULF HAMMOCK, FL

LOCATION.--Lat 29°12'14", long 82°46'09", in SW¼ sec.2, T.15 S., R.15 E., Levy County, Hydrologic Unit 03110101, near right bank at abandoned railroad grade, 0.5 mi (0.8 km) upstream from Otter Creek, 3.6 mi (5.8 km) upstream from mouth, and 4 mi (6 km) southwest of Gulf Hammock.

DRAINAGE AREA.--480 mi² (1,240 km²), approximately, including that of Otter Creek.

PERIOD OF RECORD.--March 1963 to September 1978; November 1980 to current year.

REVISED RECORDS.--WSP 2105: 1969. WRD FL-72-1: Drainage area.

GAGE.--Water-stage and water-current meter recorders. Datum of gage is 10.51 ft (3.203 m) below National Geodetic Vertical Datum of 1929. Prior to Nov. 24, 1980, water-stage and deflection-meter recorder at same site at datum 10.00 ft (3.048 m) higher.

REMARKS.--Records good. No gage height record for the periods Dec. 27 to Feb. 9, Feb. 14 to Mar. 25, Apr. 9 to May 19, and May 27 to July 13. Flow affected by tide. Discharge computed from continuous velocity record obtained from water-current meter. Records include flow of Otter Creek. Above bankfull stage, discharge measurements are made along abandoned railroad fill and includes all flow from about 1.5 mi (2.4 km) northwest to 0.8 mi (1.3 km) northeast of gaging station.

AVERAGE DISCHARGE.--15 years (water years 1964-78), 315 ft³/s (8.921 m³/s) 228,200 acre-ft/yr (276 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,200 ft³/s (346 m³/s) Sept. 12, 1964, gage height, 16.96 ft (5.169 m) present datum; maximum daily reverse flow 1,810 ft³/s (51.2 m³/s) June 9, 1966, minimum gage height, 7.33 ft (2.234 m) present datum.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	105	53		---	---	235	---		---	363	454
2	81	105	231		---	---	133	---		---	296	395
3	114	104	162		---	---	82	---		---	260	337
4	100	95	149		---	---	247	---		---	208	300
5	106	159	109		---	---	41	---		---	175	306
6	163	144	101		---	---	225	---		---	120	283
7	108	136	115		---	---	147	---		---	210	269
8	146	136	158		---	---	-74	---		---	248	284
9	152	146	191		---	---	---	---		---	325	357
10	94	87	172		104	---	---	---		---	317	412
11	109	143	144		104	---	---	---		---	324	451
12	108	153	154		73	---	---	---		---	365	495
13	97	132	131		149	---	---	---		---	397	509
14	84	120	118		---	---	---	---		240	431	489
15	76	102	175		---	---	---	---		193	448	428
16	54	-26	160		---	---	---	---		212	525	364
17	66	213	169		---	---	---	---		225	664	305
18	61	104	174		---	---	---	---		173	657	291
19	124	118	146		---	---	---	---		146	806	251
20	111	203	131		---	---	---	17		84	1120	222
21	100	136	76		---	---	---	-19		134	1150	226
22	87	142	117		---	---	---	-29		139	1230	245
23	114	148	181		---	---	---	-33		138	1210	252
24	117	136	185		---	---	---	-28		178	1100	220
25	31	166	160		---	---	---	-4.9		201	962	229
26	90	131	174		---	206	---	43		193	860	212
27	115	135	---		---	198	---	---		173	801	265
28	110	143	---		---	202	---	---		212	785	266
29	107	158	---		---	237	---	---		326	707	222
30	116	133	---		---	258	---	---		386	545	192
31	110	---	---		---	274	---	---		385	526	---
TOTAL	3155	3907	---		---	---	---	---		---	18135	9531
MEAN	102	130	---		---	---	---	---		---	585	318
MAX	163	213	---		---	---	---	---		---	1230	509
MIN	31	-26	---		---	---	---	---		---	120	192
CFSM	.21	.27	---		---	---	---	---		---	1.22	.66
IN.	.24	.30	---		---	---	---	---		---	1.41	.74
AC-FT	6260	7750	---		---	---	---	---		---	35970	18900

02314200 TENMILE CREEK AT LEBANON STATION, FL

LOCATION.--Lat 29°09'39", long 82°38'21", in SE¼ sec.24, T.15 S., R.16 E., Levy County, Hydrologic Unit 03110101, near center of span on downstream side of bridge on U.S. Highways 19 and 98, just downstream from North Prong Tenmile Creek, 0.2 mi (0.3 km) south of Lebanon Station, 9.4 mi (15.1 km) upstream from mouth, and 13 mi (21 km) northwest of Dunnellon.

DRAINAGE AREA.--26 mi² (67 km²), approximately; 34 mi² (88 km²), approximately, includes that of Horse Hole Creek.

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 15.00 ft (4.572 m) National Geodetic Vertical Datum of 1929. Since Feb. 26, 1964, nonrecording gage at Horse Hole Creek. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Records do not include considerable amount of water diverted naturally above station into Horse Hole Creek basin. Discharge measurements of Horse Hole Creek, drainage area 8.1 mi² (21.0 km²), approximately, are made at bridge on U.S. Highways 19 and 98, 1.9 mi (3.1 km) south of Tenmile Creek station.

AVERAGE DISCHARGE.--19 years, 38.3 ft³/s (1.085 m³/s), 27,750 acre-ft/yr (34.2 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,290 ft³/s (121 m³/s) Sept. 11, 1964, gage height, 12.38 ft (3.773 m); no flow for many days in 1964, 1967, 1977, 1981; minimum gage height, 2.88 ft (0.878 m) July 1, 1977.

EXTREMES FOR PERIOD OF RECORD (Horse Hole Creek-02314205).--Maximum discharge measured, 1,270 ft³/s (36.0 m³/s) Sept. 11, 1964, elevation, 26.56 ft (8.095 m) NGVD; creek dry at times each year.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 300 ft³/s (8.50 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)		Gage height (ft) (m)	
Apr. 11	1300	311	8.81	8.76	2.670	Sept. 10	1200	498	14.1	9.29	2.832
June 24	0500	*933	26.4	10.05	3.063	Sept. 22	1500	791	22.4	9.84	2.999
Aug. 20	0300	864	24.5	9.95	3.033						

Minimum discharge, 0.10 ft³/s (0.003 m³/s) Nov. 3-5, May 21, 22; minimum gage height, 2.98 ft (0.908 m) May 21, 22.

Discharge measurements in cubic feet per second, of Horsehole Creek near Lebanon Station for the water year 1981-82 are given in table below:

DATE	TIME	STREAM FLOW INSTAN- TANEOUS (CFS)
Mar. 25....	1823	.01

WACASASSA RIVER BASIN

02314200 TENMILE CREEK AT LEBANON STATION, FL---Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	2.7	.16	.18	.86	.71	2.4	30	4.6	4.5	200	74	122		
2	2.1	.18	.34	.95	.66	2.0	23	3.1	8.3	166	59	94		
3	1.6	.12	.49	.83	.97	1.7	17	2.3	9.9	140	50	76		
4	1.3	.12	.55	1.0	3.1	1.5	13	1.6	8.5	111	37	60		
5	1.1	.81	.45	1.6	3.0	1.4	10	1.2	6.8	89	28	52		
6	.90	3.2	.39	1.2	2.5	7.5	7.6	.88	5.0	82	23	72		
7	.76	1.5	.31	.97	2.0	58	5.0	.68	3.3	146	24	114		
8	.64	1.1	.29	.88	1.6	62	4.5	.55	2.2	224	23	214		
9	.57	.78	.25	.78	1.5	45	14	.49	1.5	196	28	286		
10	.83	.73	.23	.68	1.4	33	14	.39	1.0	169	29	469		
11	1.0	1.2	.23	.60	1.3	25	235	.31	1.2	140	30	397		
12	.88	1.2	.25	.55	1.5	19	204	.27	17	110	33	308		
13	.71	.97	.25	.90	3.5	15	142	.23	16	120	44	244		
14	.60	.81	.25	8.9	3.7	12	99	.22	11	187	55	192		
15	.53	.66	.45	11	3.0	9.3	74	.20	8.5	268	65	159		
16	.49	.55	.68	6.9	12	7.3	53	.18	7.3	261	62	131		
17	.42	.55	.64	5.1	24	5.7	39	.18	16	202	57	104		
18	.31	.55	.53	4.0	24	4.5	31	.18	449	158	63	86		
19	.27	.51	.47	3.3	16	4.0	25	.18	469	120	325	90		
20	.23	.45	.44	2.7	12	3.2	20	.14	305	91	765	142		
21	.22	.42	.42	2.4	10	2.5	15	.12	246	78	445	253		
22	.20	.34	.39	1.9	7.9	2.1	12	.14	305	66	314	676		
23	.18	.29	.36	1.7	6.1	2.1	8.4	.27	449	55	251	543		
24	.20	.27	.36	1.5	4.8	3.3	6.7	.29	824	45	210	347		
25	.22	.27	.36	1.3	4.0	35	12	.29	705	39	185	256		
26	.22	.25	.44	1.1	3.3	35	17	.39	485	36	174	244		
27	.20	.23	.86	1.0	2.8	31	15	.34	449	49	174	210		
28	.18	.20	1.1	.93	2.6	29	12	.29	314	124	202	174		
29	.16	.20	.90	.86	---	52	9.0	.27	239	147	220	146		
30	.14	.18	.73	.78	---	51	6.5	.27	208	124	196	122		
31	.14	---	.66	.73	---	39	---	4.2	---	93	155	---		
TOTAL	20.00	18.80	14.25	67.90	159.94	601.5	1173.7	24.75	5575.0	4036	4400	6383		
MEAN	.65	.63	.46	2.19	5.71	19.4	39.1	.80	186	130	142	213		
MAX	2.7	3.2	1.1	11	24	62	235	4.6	824	268	765	676		
MIN	.14	.12	.18	.55	.66	1.4	4.5	.12	1.0	36	23	52		
CFSM	.03	.02	.02	.08	.22	.75	1.50	.03	7.15	5.00	5.46	8.19		
IN.	.03	.03	.02	.10	.23	.86	1.68	.04	7.98	5.77	6.30	9.13		
AC-FT	40	37	28	135	317	1190	2330	49	11060	8010	8730	12660		
CAL YR 1981	TOTAL	1812.89	MEAN	4.97	MAX	141	MIN	.00	CFSM	.19	IN	2.59	AC-FT	3600
WTR YR 1982	TOTAL	22474.84	MEAN	61.6	MAX	824	MIN	.12	CFSM	2.37	IN	32.16	AC-FT	44580

02314986 ROCKY CREEK NEAR BELMONT, FL

LOCATION.--Lat 30°32'40", long 82°44'02", in SE¼ sec.29, T.2 N., R.16 E., Hamilton County, Hydrologic Unit 03110201, at bridge on county road, 1.4 mi (2.3 km) Upstream from mouth, 3.0 mi (4.8 km) north of Belmont, and 12 mi (19 km) east of Bakers Mill.

DRAINAGE AREA.--50 mi² (130 km²), Approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1970 to April 1976, (gage heights and discharge measurements only); May 1976 to September 1982 (discontinued).

REVISED RECORDS.--WDR FL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 86.64 ft (26.408 m) National Geodetic Vertical Datum of 1929. Prior to May 19, 1976, nonrecording gage at same site and datum.

REMARKS.--Records poor. Flow affected by backwater from Suwannee River at times.

AVERAGE DISCHARGE.--5 years (water years 1977-81), 33.8 ft³/s (0.957 m³/s), 9.19 in/yr (233 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 2,410 ft³/s (68.3 m³/s) Apr. 6, 1973, gage height, 18.40 ft (5.608 m) corrected; since May 1976, maximum daily discharge, 500 ft³/s (14.2 m³/s) estimated, Mar. 11, 1980; maximum gage height, 12.25 ft (3.734 m); no flow for several days in 1976-77, 1979, 1982; minimum gage height 1.28 ft (0.390 m) July 15, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 100 ft³/s (2.83 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)
Jan. 14	1600	114	3.23	July 21	0600	190	5.38
Apr. 11	1700	190	5.38	July 29	0700	*249	7.05
			6.67				7.42
			2.033				2.262

Minimum discharge, no flow for part or all of each day June 15, 16, gage height, 1.47 ft (0.448 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.19	.33	1.4	---	16	21	22	19	2.7	7.8	138	4.8
2	.19	.33	2.0	---	15	19	19	17	2.8	6.3	142	4.2
3	.16	.27	2.8	---	23	17	17	14	2.3	5.3	137	3.9
4	.08	.33	---	---	50	16	15	12	1.9	5.0	115	3.5
5	.08	.74	---	---	46	15	13	10	1.6	6.2	97	3.5
6	.08	1.9	---	40	40	30	12	8.4	1.3	21	82	4.7
7	.16	1.4	---	36	36	66	11	7.2	1.0	23	74	4.1
8	.16	1.0	---	42	31	60	14	9.1	.74	48	64	3.7
9	.16	.74	---	41	29	49	41	10	.46	38	56	3.3
10	.16	1.2	---	34	32	42	46	8.1	.33	29	51	5.8
11	.23	4.7	---	29	29	37	153	6.9	.19	28	45	12
12	.19	4.1	---	25	30	33	144	5.7	.08	28	39	14
13	.16	2.9	---	47	75	29	112	4.7	.08	25	35	13
14	.16	2.3	---	100	71	26	95	4.0	.02	22	31	12
15	.16	2.0	---	95	62	23	81	3.4	.00	22	30	9.1
16	.16	1.9	---	76	63	21	70	3.0	.23	26	26	7.9
17	.16	4.1	---	66	70	19	62	2.6	5.1	25	22	7.1
18	.16	4.0	---	56	65	17	58	2.3	13	23	24	6.3
19	.19	3.1	---	50	57	15	55	2.0	9.1	26	24	5.6
20	.16	2.7	---	44	51	14	49	1.8	6.4	73	24	5.1
21	.16	3.7	---	39	45	12	43	1.5	5.1	167	22	4.7
22	.19	3.4	---	35	40	11	38	1.4	10	116	19	6.0
23	.19	2.9	---	32	36	19	33	1.3	16	92	17	7.5
24	.27	2.5	---	33	32	23	28	1.8	12	88	14	6.2
25	.39	2.3	---	30	29	37	26	2.4	15	82	12	5.3
26	.46	2.0	---	27	26	39	34	2.7	13	68	11	5.0
27	.33	1.9	---	24	24	33	34	2.7	20	60	9.8	5.0
28	.23	1.7	---	22	22	27	29	3.1	14	120	8.3	4.5
29	.23	1.6	---	20	---	27	25	2.8	11	238	7.1	4.0
30	.27	1.5	---	19	---	27	22	2.4	9.5	201	6.0	3.7
31	.33	---	---	17	---	24	---	2.3	---	163	5.4	---
TOTAL	6.20	63.54	---	---	1145	848	1401	175.6	174.93	1882.6	1387.6	185.5
MEAN	.20	2.12	---	---	40.9	27.4	46.7	5.66	5.83	60.7	44.8	6.18
MAX	.46	4.7	---	---	75	66	153	19	20	238	142	14
MIN	.08	.27	---	---	15	11	11	1.3	.00	5.0	5.4	3.3
CFSM	.004	.04	---	---	.82	.55	.93	.11	.12	1.21	.90	.12
IN.	.00	.05	---	---	.85	.63	1.04	.13	.13	1.40	1.03	.14
AC-FT	12	126	---	---	2270	1680	2780	348	347	3730	2750	368

02314986 ROCKY CREEK NEAR BELMONT, FLA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE D RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 07...	2	<1	30	9	21	<.1	2	19	4	.10	56
DEC 10...	<1	1	40	0	46	<.1	2	14	26	.16	67
FEB 09...	--	--	--	--	--	--	--	12	--	--	73
APR 28...	--	--	--	--	--	--	--	11	--	.13	90
JUN 08...	--	--	--	--	--	--	--	9	--	--	80
AUG 05...	--	--	--	--	--	--	--	17	--	--	96

SUWANNEE RIVER BASIN

02315000 SUWANNEE RIVER NEAR BENTON, FL

LOCATION.--Lat 30°30'26", long 82°42'59", in NE¼ sec.9, T.1 N., R.16 E., Columbia County, Hydrologic Unit 03110201, near center of channel on downstream side of bridge on State Highway 6, 3.7 mi (6.0 km) northwest of Benton, 6.4 mi (10.3 km) south of Florida-Georgia State Line, 13.7 mi (22.0 km) east of Jasper, and 196 mi (315 km), upstream from mouth.

DRAINAGE AREA.--2,090 mi² (5,413 km²), approximately, includes part of watershed in Okefenokee Swamp which is indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year. Miscellaneous discharge measurements for some periods July 1934 to September 1975. Records for December 1931 to June 1934, at site 2.0 mi (3.2 km) upstream (at Turner Bridge) not equivalent owing to difference in drainage areas.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929. Dec. 8, 1931 to June 30, 1934, nonrecording gage at site 2.0 mi (3.2 km) upstream at datum unknown.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--7 years, 1,213 ft³/s (34.35 m³/s), 7.88 in/yr (200 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,500 ft³/s (297 m³/s) Dec. 16, 17, 1976, maximum gage height, 97.28 ft (29.650 m) Dec. 17, 1976; minimum, 5.0 ft³/s (0.142 m³/s) Aug. 9, 1977; minimum gage height, 74.13 ft (22.595 m), Nov. 5, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge measured, 27,700 ft³/s (784 m³/s) Apr. 6, 1973, gage height, 102.80 ft (31.333 m).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 2,480 ft³/s (70.2 m³/s) Apr. 12, gage height, 83.64 ft (25.493 m); minimum, 8.6 ft³/s (0.243 m³/s) Oct. 24, Nov. 3, gage height, 74.24 ft (22.628 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	10	29	264	500	1030	1030	1250	140	818	1880	443
2	14	9.3	27	266	479	989	938	1180	140	772	1820	398
3	13	8.6	31	258	458	951	864	1150	132	712	1750	362
4	11	14	36	254	655	919	769	1140	149	639	1680	323
5	9.3	15	33	334	744	885	729	1070	140	562	1620	290
6	11	24	31	314	734	1140	665	1030	123	479	1560	283
7	11	25	29	299	712	1370	627	938	106	516	1490	277
8	11	27	27	323	690	1610	622	872	94	492	1500	271
9	11	27	25	360	704	1550	836	810	86	453	1540	266
10	11	26	23	346	722	1460	1180	747	76	398	1460	258
11	14	43	23	334	749	1410	2040	680	70	438	1550	250
12	16	54	25	323	747	1340	2480	615	62	458	1480	236
13	15	58	23	334	1110	1300	2390	554	59	430	1330	240
14	15	53	21	598	1150	1250	2290	508	57	570	1520	398
15	14	47	56	719	1230	1190	2210	458	56	641	1350	476
16	13	43	62	795	1240	1130	2100	413	53	593	1290	456
17	12	49	58	769	1370	1080	1990	365	124	554	1260	428
18	11	47	54	737	1330	1040	1920	332	180	672	1280	408
19	11	46	49	722	1610	991	1810	312	212	802	1270	386
20	11	49	50	692	1560	946	1670	281	220	975	1300	351
21	9.3	47	47	675	1460	893	1910	252	236	1080	1300	283
22	9.3	43	44	648	1390	856	1820	222	264	1170	1220	314
23	9.3	42	42	624	1310	919	1430	195	290	1240	1130	281
24	8.6	40	41	641	1230	1010	1360	191	310	1300	1030	260
25	10	38	42	634	1180	1110	1280	178	420	1360	991	238
26	11	36	54	617	1140	1270	1200	171	581	1430	948	228
27	12	34	63	588	1110	1230	1270	168	690	1550	925	220
28	11	33	62	570	1080	1200	1320	157	747	1600	978	210
29	11	32	62	548	---	1160	1310	157	862	1700	882	201
30	11	31	79	532	---	1120	1300	149	882	1760	702	195
31	10	---	110	519	---	1080	---	149	---	1820	497	---
TOTAL	361.8	1050.9	1358	15637	28394	35429	43360	16694	7561	27984	40533	9230
MEAN	11.7	35.0	43.8	504	1014	1143	1445	539	252	903	1308	308
MAX	16	58	110	795	1610	1610	2480	1250	882	1820	1880	476
MIN	8.6	8.6	21	254	458	856	622	149	53	398	497	195
CFSM	.006	.02	.02	.24	.49	.55	.69	.26	.12	.43	.63	.15
IN.	.01	.02	.02	.28	.51	.63	.77	.30	.13	.50	.72	.16
AC-FT	718	2080	2690	31020	56320	70270	86000	33110	15000	55510	80400	18310

CAL YR 1981	TOTAL	154463.9	MEAN	423	MAX	3510	MIN	8.6	CFSM	.20	IN	2.75	AC-FT	306400
WTR YR 1982	TOTAL	227592.7	MEAN	624	MAX	2480	MIN	8.6	CFSM	.30	IN	4.05	AC-FT	451400

02315000 SUWANNEE RIVER NEAR BENTON, FL--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74.35	74.26	74.52	76.03	77.03	78.98	78.99	79.73	75.40	78.19	81.80	76.68
2	74.33	74.25	74.50	76.04	76.95	78.83	78.65	79.50	75.40	78.01	81.62	76.50
3	74.31	74.24	74.55	76.01	76.87	78.70	78.38	79.41	75.35	77.78	81.40	76.35
4	74.28	74.32	74.61	75.99	77.61	78.58	78.02	79.35	75.45	77.49	81.18	76.19
5	74.25	74.35	74.58	76.34	77.96	78.46	77.87	79.12	75.40	77.17	80.99	76.04
6	74.27	74.46	74.55	76.26	77.92	79.38	77.62	78.99	75.29	76.87	80.78	76.01
7	74.27	74.48	74.52	76.19	77.83	80.14	77.47	78.65	75.19	77.01	80.53	75.98
8	74.27	74.50	74.50	76.29	77.75	80.95	77.45	78.41	75.11	76.92	80.58	75.95
9	74.27	74.50	74.48	76.45	77.80	80.75	78.27	78.18	75.05	76.78	80.71	75.93
10	74.27	74.49	74.45	76.39	77.87	80.43	79.50	77.94	74.99	76.56	80.45	75.89
11	74.33	74.69	74.45	76.34	77.97	80.28	82.30	77.68	74.94	76.72	80.76	75.85
12	74.36	74.80	74.47	76.29	78.13	80.04	83.64	77.42	74.88	76.80	80.51	75.78
13	74.35	74.84	74.45	76.34	79.51	79.89	83.37	77.18	74.85	76.69	80.00	75.80
14	74.35	74.79	74.43	77.36	79.66	79.73	83.06	77.01	74.83	77.20	80.63	76.50
15	74.33	74.73	74.81	77.86	79.64	79.52	82.84	76.83	74.81	77.50	80.12	76.81
16	74.31	74.69	74.87	78.15	79.70	79.31	82.49	76.66	74.79	77.30	79.86	76.73
17	74.29	74.75	74.84	78.05	80.13	79.15	82.15	76.47	75.30	77.15	79.77	76.62
18	74.27	74.73	74.80	77.93	80.00	79.02	81.93	76.33	75.62	77.62	79.82	76.54
19	74.27	74.71	74.75	77.87	80.93	78.84	81.60	76.25	75.78	78.22	79.78	76.45
20	74.27	74.75	74.76	77.76	80.78	78.68	81.14	76.11	75.82	78.77	79.95	76.30
21	74.25	74.72	74.73	77.69	80.44	78.49	81.89	75.98	75.90	79.15	79.88	76.01
22	74.25	74.69	74.70	77.59	80.19	78.35	81.61	75.83	76.03	79.45	79.63	76.15
23	74.25	74.67	74.68	77.49	79.94	78.58	80.35	75.70	76.15	79.70	79.30	76.00
24	74.24	74.65	74.66	77.56	79.68	78.91	80.11	75.68	76.24	79.90	78.93	75.90
25	74.26	74.63	74.67	77.53	79.49	79.25	79.83	75.61	76.65	80.09	78.81	75.80
26	74.27	74.61	74.80	77.46	79.38	79.80	79.58	75.57	77.25	80.34	78.65	75.74
27	74.29	74.59	74.89	77.35	79.27	79.67	79.79	75.55	77.69	80.76	78.56	75.70
28	74.28	74.57	74.88	77.27	79.16	79.57	79.98	75.50	77.91	80.91	78.76	75.65
29	74.27	74.56	74.87	77.20	---	79.42	79.94	75.50	78.35	81.24	78.40	75.60
30	74.27	74.55	75.01	77.14	---	79.29	79.91	75.45	78.43	81.44	77.70	75.57
31	74.26	---	75.22	77.09	---	79.14	---	75.45	---	81.61	76.89	---
TOTAL	2302.89	2237.57	2315.00	2387.31	2209.59	2460.13	2409.73	2389.04	2274.85	2431.34	2476.75	2283.02
MEAN	74.29	74.59	74.68	77.01	78.91	79.36	80.32	77.07	75.83	78.43	79.90	76.10
MAX	74.36	74.84	75.22	78.15	80.93	80.95	83.64	79.73	78.43	81.61	81.80	76.81
MIN	74.24	74.24	74.43	75.99	76.87	78.35	77.45	75.45	74.79	76.56	76.89	75.57
CAL YR 1981	TOTAL	27814.80	MEAN	76.20	MAX	86.53	MIN	74.24				
WTR YR 1982	TOTAL	28177.22	MEAN	77.20	MAX	83.64	MIN	74.24				

SUWANNEE RIVER BASIN

02315000 SUWANNEE RIVER NEAR BENTON, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1956 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
OCT 07...	1414	11	53	6.2	27.0	1.0	5.9	73	1.2	.2
DEC 10...	1520	23	56	4.5	11.0	1.0	9.8	88	1.4	.2
FEB 10...	1245	722	81	3.8	16.5	1.3	--	--	1.3	.6
APR 27...	1315	1270	65	4.1	20.0	--	4.8	52	1.1	--
JUN 08...	0930	94	55	4.4	28.0	--	6.6	84	.9	--
AUG 04...	1045	1680	66	3.9	28.0	.60	5.4	--	1.3	.3

DATE	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRIE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)
OCT 07...	.00	.020	.02	.010	.93	.94	.96	.210	.160
DEC 10...	.00	.010	.01	.010	.80	.81	.82	.080	.060
FEB 10...	.00	.010	.01	.010	.96	.97	.98	.090	.060
APR 27...	.00	.010	.01	.040	1.3	1.34	1.4	.090	.060
JUN 08...	.00	.010	.01	.020	1.4	1.42	1.4	.110	.110
AUG 04...	.00	.020	.02	.030	1.4	1.43	1.5	.060	.050

[illegible][illegible]

02315005 HUNTER CREEK NEAR BELMONT, FL

LOCATION.--Lat 30°29'08", long 82°42'44", in SE¼ sec.16, T.1 N., R.16 E., Hamilton County, Hydrologic Unit 03110201, on left bank 30 ft (9 m) downstream from bridge on State Highway 135, 0.8 mi (1.3 km) upstream from mouth, and 1.6 mi (2.6 km) southeast of Belmont.

DRAINAGE.--Indeterminate, due to continual reduction because of progressive strip mining.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1970 (one discharge measurement); August 1971 to January 1979 (gage heights and discharge measurements only); January to September 1979 (fragmentary); October 1979 to current year.

REVISED RECORDS.--WDR FL-75-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 100 ft (30.48 m) from topographic map.

REMARKS.--Record fair. Flow partly regulated by control structures on holding ponds. Possible interchange of water between Hunter Creek, Swift Creek, and Roaring Creek basins due to release from diked phosphate mining area encompassing parts of the three basins. Flow contains some ground water used for phosphate mining.

EXTREMES FOR PERIOD OF RECORD.--Maximum measured discharge, 425 ft³/s (12.0 m³/s) June 26, 1972, gage height, 11.32 ft (3.450 m); since October 1979, maximum discharge, 214 ft³/s (6.06 m³/s) Apr. 12, 1982, gage height, 9.61 ft (2.924 m); no flow part of each day Oct. 15, 16, 1980, (corrected), gage height, 3.89 ft (1.186 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 214 ft³/s (6.06 m³/s) Apr. 12, gage height, 9.61 ft (2.929 m); minimum, 1.1 ft³/s (0.031 m³/s), Oct. 4, estimated.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	8.4	3.7	28	33	60	39	5.1	3.4	18	39	4.1
2	1.2	8.1	6.6	26	32	52	32	4.8	4.0	14	33	3.6
3	1.2	8.3	7.3	23	21	51	31	4.6	3.4	8.8	28	3.5
4	1.1	6.7	5.2	21	28	47	28	4.4	3.9	7.1	22	4.2
5	1.8	7.4	9.5	18	40	45	26	4.2	3.5	8.7	18	6.4
6	2.6	7.7	11	17	37	70	41	4.0	3.0	10	16	6.0
7	4.8	7.0	7.7	15	36	95	96	3.8	2.9	10	23	5.1
8	6.1	7.2	10	19	40	87	93	5.2	3.6	12	33	3.6
9	9.5	10	9.2	19	114	78	134	4.8	3.4	11	30	3.5
10	9.5	9.5	6.4	18	119	117	131	6.5	2.8	9.1	25	5.7
11	9.0	18	5.0	17	131	102	183	5.2	2.6	7.6	20	5.6
12	8.1	15	4.1	15	127	57	184	4.5	2.5	6.5	14	5.2
13	6.8	9.8	3.8	25	111	51	143	3.9	2.6	5.9	14	5.3
14	5.5	8.1	3.9	41	94	52	130	3.7	2.6	5.7	21	3.8
15	7.0	7.1	9.1	61	90	54	127	3.4	2.4	4.8	24	11
16	8.1	6.1	11	108	95	49	88	3.1	2.5	4.7	22	14
17	9.2	6.2	11	93	155	36	70	3.1	5.9	5.1	13	14
18	7.9	6.1	8.9	82	167	31	58	3.0	32	10	11	36
19	6.3	5.9	8.5	72	147	28	48	3.0	37	32	12	84
20	4.9	4.7	8.8	57	115	26	42	2.9	24	70	13	76
21	9.0	4.1	9.1	52	97	24	38	2.8	19	85	24	82
22	11	4.5	8.8	46	75	24	20	2.7	23	89	58	32
23	11	4.5	8.1	49	67	34	14	2.7	26	80	57	22
24	9.0	4.4	8.0	56	64	43	12	3.2	24	68	78	20
25	6.6	4.5	8.1	54	70	54	8.4	3.2	22	75	54	16
26	6.1	4.5	14	52	48	75	7.8	3.2	19	62	46	4.3
27	6.4	3.9	12	45	53	63	7.4	3.1	35	50	34	3.6
28	8.7	3.4	9.4	43	68	53	6.4	3.1	17	45	32	3.1
29	11	3.4	7.6	32	---	58	5.8	3.0	18	59	30	2.8
30	6.1	3.8	8.3	32	---	53	5.4	2.9	20	52	21	2.7
31	7.7	---	17	33	---	46	---	3.2	---	42	4.8	---
TOTAL	204.5	208.3	261.1	1269	2274	1715	1849.2	116.3	371.0	968.0	869.8	489.1
MEAN	6.60	6.94	8.42	40.9	81.2	55.3	61.6	3.75	12.4	31.2	28.1	16.3
MAX	11	18	17	108	167	117	184	6.5	37	89	78	84
MIN	1.1	3.4	3.7	15	21	24	5.4	2.7	2.4	4.7	4.8	2.7
AC-FT	406	413	518	2520	4510	3400	3670	231	736	1920	1730	970
CAL YR 1981	TOTAL	4569.5	MEAN 12.5	MAX 102	MIN 1.1	AC-FT	9060					
WTR YR 1982	TOTAL	10595.3	MEAN 29.0	MAX 184	MIN 1.1	AC-FT	21020					

02315005 HUNTER CREEK NEAR BELMONT, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1967 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	HARD- NESS (MG/L AS CaCO3)	HARD- NESS, NONCAR- BONATE (MG/L CaCO3)
OCT 07...	1812	5.3	288	6.7	27.0	3.7	6.4	80	1.3	118	64
DEC 10...	1630	6.1	315	6.8	9.0	2.9	9.7	84	1.6	133	70
FEB 10...	1400	119	340	7.1	16.5	7.6	--	--	6.4	155	132
APR 28...	1330	5.8	135	6.7	19.5	2.9	6.5	70	1.9	50	26
JUN 08...	1630	4.0	280	7.5	23.5	3.3	6.8	79	1.1	105	49
AUG 10...	1930	24	270	6.9	26.0	4.0	--	--	1.7	90	75

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LINITY LAB (MG/L AS CAO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT 07...	29	11	16	.7	54	21	62	8.6	1.7	9.1	204
DEC 10...	32	13	17	.7	63	19	68	8.6	1.7	4.5	206
FEB 10...	39	14	21	.8	23	3.5	130	10	2.1	9.8	267
APR 28...	12	4.8	6.7	.4	24	9.3	20	8.5	.7	8.0	135
JUN 08...	24	11	15	.7	56	3.4	57	11	1.3	8.9	168
AUG 10...	24	7.4	13	.6	15	3.7	79	7.6	1.5	8.4	218

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT 07...	--	.28	2.9	.50	.020	.52	.030	.78	.81	1.3	2.10
DEC 10...	--	.28	3.4	.42	.020	.44	.030	.60	.63	1.1	1.90
FEB 10...	--	.36	85.8	1.1	.070	1.2	2.80	2.3	5.10	6.3	4.20
APR 28...	75	.18	2.1	.70	.040	.74	.140	1.1	1.24	2.0	1.20
JUN 08...	162	.23	1.8	.43	.020	.45	.030	.68	.71	1.2	1.20
AUG 10...	150	.30	14.1	.18	.030	.21	.280	1.2	1.48	1.7	2.10

[illegible]

02315005 HUNTER CREEK NEAR BELMONT, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 07...	<1	20	10	10	<.1	2	33	<4	.12	17
DEC 10...	2	10	2	8	<.1	4	31	6	.11	--
FEB 10...	--	--	--	--	--	--	48	--	--	13
APR 28...	--	--	--	--	--	--	16	--	--	33
JUN 08...	--	--	--	--	--	--	21	--	--	14
AUG 10...	--	--	--	--	--	--	34	--	--	28

SUWANNEE RIVER BASIN

02315500 SUWANNEE RIVER AT WHITE SPRINGS, FL

LOCATION.--Lat 30°19'32", long 82°44'18", in SW¼ sec.8, T.2 S., R.16 E., Columbia County, Hydrologic Unit 03110201, on left bank at downstream side of bridge on U.S. Highway 41; 1.0 mi (1.6 km) southeast of White Springs and 171 mi (275 km) upstream from mouth. Since October 1979 at site 2.2 mi (3.5 km) downstream at bridge on State Highway 136 at White Springs.

DRAINAGE AREA.--2,430 mi² (6,290 km²) approximately, includes part of watershed in Okefenokee Swamp which is indeterminate. See REMARKS.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1906 to December 1908, February 1927 to current year.

REVISED RECORDS.--WSP 1504: 1906, 1908. WSP 1905: WDR FL-75-1: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to July 31, 1932, nonrecording gage at site 1.2 mi (1.9 km) upstream at datum 48.54 ft (14.795 m) higher. Aug. 1, 1932 to Oct. 10, 1979, water-stage recorder at site 2.2 mi (3.5 km) upstream at same datum.

REMARKS.--Records poor. Records of discharge at site 2.2 mi (3.5 km) downstream are equivalent.

AVERAGE DISCHARGE.--57 years (water years 1907-08, 1928-82), 1,820 ft³/s (51.54 m³/s), 10.17 in/yr (258 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,100 ft³/s (1,080 m³/s) Apr. 10, 1973, gage height, 40.02 ft (12.198 m); minimum, 4.8 ft³/s (0.14 m³/s) Nov. 15, 1931; minimum gage height, 1.05 ft (0.320 m) June 24-26, 1955, part or all of each day Nov. 3-8, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,940 ft³/s (112 m³/s) Apr. 12, gage height, 61.40 ft (18.715 m); minimum daily, 20 ft³/s (0.57 m³/s) Oct. 21, gage height 48.75 ft (14.859 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	23	76	762	740	1200	1430	1440	313	985	2690	682
2	41	22	117	924	712	1150	1300	1380	296	871	2550	620
3	37	22	114	771	685	1100	1210	1330	256	787	2500	568
4	37	23	109	634	905	1070	1110	1270	226	694	2350	555
5	32	58	104	614	1020	1020	1010	1190	199	656	2490	530
6	32	119	97	620	1000	1240	943	1140	181	620	2060	503
7	29	83	90	590	972	1660	896	1040	171	625	2050	446
8	27	71	85	639	946	1920	862	972	160	653	2190	412
9	25	61	81	709	962	1880	1240	924	155	659	2580	468
10	25	76	73	665	988	1790	1700	877	122	636	2350	515
11	29	241	71	625	994	1730	2780	803	109	636	2150	474
12	32	239	71	579	998	1600	3750	724	92	622	1950	446
13	28	216	64	927	1070	1560	3570	709	139	611	1910	755
14	28	181	71	1080	1330	1490	3230	631	137	620	2070	768
15	25	155	119	1440	1460	1430	2980	582	106	706	2000	737
16	25	134	162	1440	1480	1360	2780	555	99	850	1800	680
17	25	130	160	1330	1660	1290	2590	515	167	877	1690	611
18	25	130	157	1240	1950	1220	2420	494	414	940	1570	595
19	24	122	155	1180	1950	1160	2280	454	568	1170	1560	582
20	21	117	139	1130	1870	1090	2160	446	460	1470	1520	576
21	20	117	131	1070	1770	1040	2010	394	386	1940	1510	579
22	23	110	124	1020	1680	1000	1880	357	503	1850	1560	595
23	25	106	117	1000	1570	1310	1730	335	582	1790	1680	527
24	25	100	117	988	1460	1470	1560	323	548	1890	1560	477
25	25	92	110	965	1410	1720	1420	332	543	1980	1590	446
26	25	86	131	936	1350	1990	1360	319	568	1990	1270	419
27	28	81	173	893	1290	2080	1430	276	595	1930	1140	401
28	26	81	190	850	1240	1860	1490	265	946	2470	1090	389
29	26	76	183	803	---	1670	1510	261	1030	3080	1000	355
30	25	72	250	787	---	1650	1480	261	1040	3030	856	328
31	25	---	389	755	---	1540	---	261	---	2850	752	---
TOTAL	867	3144	4030	27966	35462	45290	56111	20860	11111	40488	56038	16039
MEAN	28.0	105	130	902	1267	1461	1870	673	370	1306	1808	535
MAX	47	241	389	1440	1950	2080	3750	1440	1040	3080	2690	768
MIN	20	22	64	579	685	1000	862	261	92	611	752	328
CFSM	.01	.04	.05	.37	.52	.60	.77	.28	.15	.54	.74	.22
IN.	.01	.05	.06	.43	.54	.69	.86	.32	.17	.62	.86	.25
AC-FT	1720	6240	7990	55470	70340	89830	111300	41380	22040	80310	111200	31810
CAL YR 1981	TOTAL	201988	MEAN 553	MAX 4000	MIN 15	CFSM .23	IN 3.09	AC-FT 400600				
WTR YR 1982	TOTAL	317406	MEAN 870	MAX 3750	MIN 20	CFSM .36	IN 4.86	AC-FT 629600				

SUWANNEE RIVER BASIN

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02315500 SUWANNEE RIVER AT WHITE SPRINGS, FL--Continued.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49.11	48.80	49.35	52.42	52.35	53.77	54.42	54.45	50.75	53.14	58.05	52.16
2	49.05	48.79	49.70	52.95	52.26	53.63	54.07	54.30	50.67	52.78	57.62	51.94
3	49.00	48.79	49.68	52.45	52.17	53.47	53.80	54.17	50.48	52.50	57.49	51.75
4	49.00	48.80	49.64	51.99	52.89	53.40	53.50	53.98	50.34	52.20	57.05	51.70
5	48.95	49.20	49.60	51.92	53.26	53.25	53.22	53.74	50.20	52.07	57.46	51.60
6	48.95	49.72	49.55	51.94	53.20	53.90	53.01	53.60	50.10	51.94	56.23	51.50
7	48.90	49.42	49.49	51.83	53.10	55.10	52.86	53.32	50.04	51.96	56.20	51.30
8	48.88	49.30	49.44	52.01	53.02	55.84	52.75	53.10	49.98	52.06	56.60	51.17
9	48.85	49.23	49.40	52.25	53.07	55.72	53.90	52.95	49.95	52.08	57.71	51.38
10	48.85	49.35	49.32	52.10	53.15	55.45	55.20	52.80	49.74	52.00	57.07	51.54
11	48.90	50.41	49.30	51.96	53.17	55.28	58.30	52.55	49.64	52.00	56.49	51.40
12	48.94	50.40	49.30	51.79	53.18	54.93	60.93	52.30	49.50	51.95	55.91	51.30
13	48.89	50.29	49.25	52.96	53.40	54.80	60.47	52.25	49.85	51.91	55.80	52.40
14	48.89	50.10	49.30	53.42	54.15	54.60	59.56	51.98	49.84	51.94	56.25	52.44
15	48.84	49.95	49.72	54.47	54.50	54.44	58.87	51.80	49.62	52.24	56.05	52.34
16	48.84	49.82	49.99	54.45	54.57	54.24	58.30	51.70	49.56	52.71	55.48	52.15
17	48.85	49.79	49.98	54.15	55.10	54.04	57.75	51.54	50.02	52.80	55.17	51.91
18	48.85	49.79	49.96	53.89	55.92	53.83	57.25	51.47	51.18	53.00	54.84	51.85
19	48.83	49.74	49.95	53.73	55.91	53.66	56.85	51.33	51.75	53.70	54.82	51.80
20	48.78	49.70	49.85	53.56	55.70	53.45	56.50	51.30	51.35	54.53	54.69	51.78
21	48.75	49.70	49.80	53.41	55.40	53.30	56.10	51.10	51.07	55.90	54.65	51.79
22	48.81	49.65	49.75	53.26	55.14	53.19	55.72	50.95	51.50	55.63	54.80	51.85
23	48.84	49.62	49.70	53.20	54.84	54.09	55.28	50.85	51.80	55.45	55.15	51.59
24	48.85	49.57	49.70	53.15	54.50	54.55	54.80	50.80	51.67	55.75	54.80	51.41
25	48.85	49.50	49.65	53.08	54.37	55.27	54.40	50.84	51.65	56.00	54.90	51.30
26	48.85	49.45	49.80	52.99	54.20	56.04	54.23	50.78	51.75	56.04	54.00	51.20
27	48.89	49.40	50.05	52.85	54.05	56.30	54.42	50.57	51.85	55.85	53.60	51.13
28	48.86	49.40	50.15	52.71	53.90	55.65	54.60	50.52	53.02	57.40	53.45	51.08
29	48.86	49.35	50.11	52.55	---	55.11	54.66	50.50	53.29	59.15	53.20	50.94
30	48.85	49.31	50.45	52.50	---	55.07	54.56	50.50	53.31	58.99	52.73	50.82
31	48.85	---	51.08	52.40	---	54.75	---	50.50	---	58.50	52.39	---
TOTAL	1515.41	1486.34	1542.01	1638.34	1510.47	1690.12	1670.28	1612.54	1525.47	1674.17	1720.65	1548.52
MEAN	48.88	49.54	49.74	52.85	53.95	54.52	55.68	52.02	50.85	54.01	55.50	51.62
MAX	49.11	50.41	51.08	54.47	55.92	56.30	60.93	54.45	53.31	59.15	58.05	52.44
MIN	48.75	48.79	49.25	51.79	52.17	53.19	52.75	50.50	49.50	51.91	52.39	50.82
CAL YR 1981	TOTAL	18673.49	MEAN	51.16	MAX	61.54	MIN	48.75				
WTR YR 1982	TOTAL	19134.32	MEAN	52.42	MAX	60.93	MIN	48.75				

SUWANNEE RIVER BASIN

02315500 SUWANNEE RIVER AT WHITE SPRINGS, FL--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

		STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)
DATE	TIME											
OCT 08...	0935	27	103	6.7	23.5	1.0	6.1	71	.6	.20	.020	.22
DEC 10...	1800	64	78	5.6	11.0	1.0	8.9	80	.4	.11	.010	.12
FEB 10...	1640	990	104	4.7	16.5	--	--	--	--	.15	.020	.17
APR 27...	1630	1420	61	4.3	20.5	--	8.4	93	--	.02	.010	.03
JUN 09...	1315	140	61	5.9	30.0	--	6.8	89	--	.06	.010	.07
AUG 02...	1730	2540	58	4.0	28.0	.70	5.9	--	.4	.00	.020	.02

DATE	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, DIS- SOLVED (UG/L AS CU)
OCT 08...	.020	.77	.79	1.0	.470	.460	220	0	230	2	1	<1
DEC 10...	.020	.67	.69	.81	.250	.250	300	0	310	1	<1	3
FEB 10...	.300	.99	1.29	1.5	.610	.560	--	--	--	--	--	--
APR 27...	.030	1.3	1.33	1.4	.140	.140	--	--	--	--	--	--
JUN 09...	.000	1.3	1.30	1.4	.200	.200	--	--	--	--	--	--
AUG 02...	.030	1.3	1.33	1.4	--	.170	--	--	--	--	--	--

[illegible]

02315520 SWIFT CREEK AT FACIL, FL

LOCATION.--Lat 30°22'14", long 82°48'00", in SE¼ sec.27, T.1 S., R.15 E., Hamilton County, Hydrologic Unit 03110201, near right bank on downstream side of bridge on U.S. Highway 41, 0.5 mi (0.8 km) northwest of Facil, 2.8 mi (4.5 km) upstream from mouth, and 3.0 mi (4.8 km) southeast of Genoa.

DRAINAGE AREA.--Indeterminate due to continual reduction because of progressive strip mining.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1969 to April 1976 (gage heights and discharge measurements only); May 1976 to current year.

REVISED RECORDS.--WDR FL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 86.43 ft (26.344 m) National Geodetic Vertical Datum of 1929. Prior to May 20, 1976, nonrecording gage at same site and datum.

REMARKS.--Records poor. Flow regulated to some extent since 1965 by Occidental Chemical Company by control structures on Swift Creek, Altmans Bay Canal, and on an unnamed tributary. Possible interchange of water between Swift Creek, Hunter Creek, and Roaring Creek basins due to releases from diked phosphate mining area encompassing parts of the three basins. Flow contains some ground water used for phosphate mining.

AVERAGE DISCHARGE.--6 years (water years 1977-82), 66.0 ft³/s (1.869 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 1,180 ft³/s (33.4 m³/s) June 27, 1972, gage height, 8.54 ft (2.603 m) observed; since May 1976, maximum discharge, 649 ft³/s (18.4 m³/s) Mar. 10, 1980, gage height 6.81 ft (2.076 m), minimum discharge, 1.6 ft³/s (0.045 m³/s) Nov. 12, 1977; minimum gage height, 0.40 ft (0.122 m) July 31, 1981, estimated.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 338 ft³/s (9.57 m³/s) July 28, gage height, 5.31 ft (1.618 m); minimum, 22 ft³/s (0.623 m³/s), June 9, gage height, 0.93 ft (0.283 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	67	62	99	49	40	71	47	45	114	179	46
2	40	65	67	89	45	36	67	74	57	103	177	48
3	43	64	64	86	59	34	66	85	46	85	169	45
4	35	67	69	85	75	31	69	79	35	80	155	45
5	30	80	65	86	73	27	70	73	30	90	144	51
6	30	86	62	81	72	52	69	73	29	112	136	52
7	30	84	61	81	69	71	70	79	28	123	132	54
8	37	79	57	101	65	64	83	94	27	114	148	56
9	40	71	54	88	65	69	117	98	24	106	148	55
10	45	77	53	81	69	66	131	96	26	100	146	66
11	49	92	55	74	69	63	249	84	29	95	138	62
12	47	89	57	71	72	63	272	72	35	93	117	58
13	49	86	58	87	77	56	250	73	53	92	102	57
14	58	86	57	124	71	53	203	64	69	85	90	51
15	55	81	71	140	67	61	170	69	77	80	81	43
16	46	71	75	132	66	61	148	77	82	75	73	47
17	49	69	75	120	81	56	132	73	79	62	70	41
18	42	69	80	106	77	51	122	64	99	71	69	44
19	47	72	78	93	72	47	118	59	95	68	65	68
20	44	82	77	75	68	44	114	46	89	62	55	75
21	42	75	77	81	65	41	105	34	88	60	57	84
22	29	69	74	75	60	46	98	28	123	58	72	89
23	29	69	71	70	56	57	95	25	126	56	91	74
24	34	67	67	69	50	62	82	35	127	54	102	52
25	43	62	69	65	40	72	92	30	137	52	82	48
26	56	59	74	72	49	99	90	35	130	50	60	50
27	60	58	67	67	47	88	74	37	165	111	56	49
28	59	59	72	70	44	82	67	36	177	254	54	47
29	58	60	70	63	---	86	42	36	203	249	52	47
30	76	60	75	56	---	82	36	34	165	218	47	47
31	69	---	83	53	---	76	---	42	---	191	28	---
TOTAL	1410	2175	2096	2640	1772	1836	3372	1851	2495	3163	3095	1651
MEAN	45.5	72.5	67.6	85.2	63.3	59.2	112	59.7	83.2	102	99.8	55.0
MAX	76	92	83	140	81	99	272	98	203	254	179	89
MIN	29	58	53	53	40	27	36	25	24	50	28	41
CFSM	.70	1.11	1.04	1.31	.97	.91	1.72	.91	1.27	1.56	1.53	.84
IN.	.80	1.24	1.19	1.50	1.01	1.05	1.92	1.05	1.42	1.80	1.76	.94
AC-FT	2800	4310	4160	5240	3510	3640	6690	3670	4950	6270	6140	3270
CAL YR 1981	TOTAL	26093.0	MEAN 71.5	MAX 500	MIN 4.2	CFSM 1.10	IN 14.86	AC-FT 51760				
WTR YR 1982	TOTAL	27556.0	MEAN 75.5	MAX 272	MIN 24	CFSM 1.16	IN 15.70	AC-FT 54660				

SUWANNEE RIVER BASIN

02315520 SWIFT CREEK AT FACIL, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1967 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	HARD- NESS (MG/L AS CaCO3)	HARD- NESS, NONCAR- BONATE (MG/L CaCO3)
OCT 06...	1130	30	490	6.8	25.0	5.9	5.2	62	6.6	184	141
DEC 10...	1210	53	420	7.0	12.0	8.9	7.7	71	6.8	154	93
FEB 11...	1420	69	380	6.8	16.0	16	--	--	4.3	143	111
APR 29...	1400	36	390	7.0	20.0	5.0	5.5	60	>9.4	138	102
JUN 09...	1145	24	560	6.9	27.5	1.8	4.6	58	5.3	204	161
AUG 10...	1645	144	295	7.0	32.0	5.1	--	--	4.4	100	75

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT 06...	44	18	31	1.0	43	13	100	23	6.0	27	353
DEC 10...	37	15	23	.8	61	12	97	15	3.7	16	295
FEB 11...	34	14	23	.9	32	9.8	89	13	3.5	17	278
APR 29...	32	14	26	1.0	36	7.0	88	21	3.8	18	307
JUN 09...	47	21	35	1.1	43	10	150	26	4.4	23	410
AUG 10...	24	9.8	16	.7	25	4.8	65	10	--	13	222

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
OCT 06...	--	.48	28.6	--	.100	--	3.50	.86	4.36	--	14.0
DEC 10...	--	.40	42.2	2.9	.100	3.0	1.10	1.5	2.60	5.6	8.90
FEB 11...	--	.38	51.8	2.1	.090	2.2	.410	1.2	1.61	3.8	10.8
APR 29...	225	.42	29.8	2.1	.180	2.3	1.30	1.3	2.60	4.9	12.0
JUN 09...	332	.56	26.6	1.6	.120	1.7	1.50	1.1	2.60	4.3	24.0
AUG 10...	153	.30	86.3	1.3	.100	1.4	.850	1.1	1.95	3.4	9.80

[illegible]

02315520 SWIFT CREEK AT FACIL, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 06...	<1	60	20	42	.1	4	97	<4	.04	23
DEC 10...	<1	30	1	29	<.1	5	67	7	.17	6.0
FEB 11...	--	--	--	--	--	--	59	--	--	18
APR 29...	--	--	--	--	--	--	64	--	.05	25
JUN 09...	--	--	--	--	--	--	85	--	--	17
AUG 10...	--	--	--	--	--	--	42	--	--	26

02315532 ROCKY CREEK NEAR HOUSTON, FL

LOCATION.--Lat 30°18'56", long 82°50'42", Suwannee County, Hydrologic Unit 03110201, at bridge on State Highway S-136, 5.3 mi (8.5 km) northeast of Houston.

DRAINAGE AREA.--25.3 mi² (65.5 km²).

PERIOD OF RECORD.--October 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	HARD- NESS (MG/L AS CaCO3)	HARD- NESS, NONCAR- BONATE (MG/L CaCO3)
DEC 09...	1500	3.2	64	5.1	12.0	.50	9.6	89	1.2	26	22
FEB 10...	1800	9.8	61	4.8	17.0	.90	--	--	.8	21	15
APR 28...	1630	3.2	54	5.5	20.0	1.2	8.4	92	1.0	17	12
JUN 09...	1600	.25	58	5.4	27.0	<1.0	6.8	85	1.2	18	11
AUG 03...	1455	20	51	4.9	25.0	1.0	6.2	--	1.0	18	15

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
DEC 09...	5.7	2.8	5.7	.5	4.0	62	7.4	11	.1	7.1	108
FEB 10...	5.0	2.1	6.2	.6	6.0	184	7.3	9.1	.1	4.3	94
APR 28...	4.0	1.6	4.0	.4	5.0	31	8.0	9.8	.2	4.2	94
JUN 09...	4.4	1.7	4.4	.5	7.0	54	10	11	.2	4.9	108
AUG 03...	4.7	1.6	3.7	.4	3.0	73	10	7.7	.1	6.1	128

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
DEC 09...	--	.15	.93	.00	.010	.01	.000	.88	.88	.89	.230
FEB 10...	--	.13	2.5	.01	.010	.02	.000	.71	.71	.73	.280
APR 28...	35	.13	.81	.02	.010	.03	.010	.95	.96	.99	.320
JUN 09...	41	.15	.07	.01	.020	.03	.010	1.0	1.01	1.0	.450
AUG 03...	36	.17	6.9	.03	.020	.05	.020	1.3	1.32	1.4	.360

[illegible]

02315532 ROCKY CREEK NR HOUSTON, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	CARBON, ORGANIC TOTAL (MG/L AS C)
DEC 09...	<1	40	0	44	<.1	2	10	10	.14	43
FEB 10...	--	--	--	--	--	--	10	--	--	26
APR 28...	--	--	--	--	--	--	8	--	.20	38
JUN 09...	--	--	--	--	--	--	6	--	--	36
AUG 03...	--	--	--	--	--	--	13	--	--	54

02315542 CAMP BRANCH NEAR GENOA, FL

LOCATION.--Lat 30°24'25", long 82°51'54", in NE¼ sec. 13, T.1 S., R.14 E., Hamilton County, Hydrologic Unit 03110201, at culvert on State Highway S-132, 1.8 mi (2.9 km) west of Genoa, 1.8 mi (2.9 km) south of Camps Still, and 3.5 mi (5.6 km) upstream from mouth.

DRAINAGE AREA.--6.10 mi² (15.8 km²).

PERIOD OF RECORD.--October 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	HARD- NESS (MG/L AS CaCO3)	HARD- NESS, NONCAR- BONATE (MG/L CaCO3)
OCT 06...	1020	.04	137	6.9	21.0	2.3	5.6	62	1.0	63	14
DEC 09...	1629	18	185	6.6	13.0	2.0	3.8	36	1.3	93	18
FEB 11...	1130	6.3	74	5.6	14.0	1.1	--	--	1.4	35	24
APR 29...	0930	.43	80	6.4	17.0	1.5	6.4	66	1.5	38	18
AUG 10...	1230	2.3	49	5.5	25.0	<1.0	5.6	--	1.3	26	19

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LINITY LAB (MG/L AS CAO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT 06...	14	6.9	5.3	.3	49	12	3.8	7.5	.4	14	113
DEC 09...	19	11	6.0	.3	75	36	4.6	9.2	.3	14	129
FEB 11...	7.7	3.8	4.9	.4	11	54	9.5	9.6	.3	12	147
APR 29...	8.3	4.1	4.8	.4	20	15	10	8.8	.3	11	150
AUG 10...	6.2	2.5	2.9	.3	7.0	43	12	6.6	.2	10	92

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
OCT 06...	--	.15	.01	.01	.010	.02	.020	.66	.68	.70	.580
DEC 09...	--	.18	6.3	.00	.010	.01	.010	.39	.40	.41	.360
FEB 11...	--	.20	2.5	.00	.010	.01	.000	1.2	1.20	1.2	.170
APR 29...	59	.20	.17	.00	.020	.02	.020	1.4	1.42	1.4	.260
AUG 10...	45	.13	.58	.00	.020	.02	.030	1.6	1.63	1.7	.320

[illegible]

SUWANNEE RIVER BASIN

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02315542 CAMP BRANCH NEAR GENOA, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, DIS- SOLVED (UG/L AS ZN)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 06...	0	1	40	8	32	<.1	6	27	<4	.11	21
DEC 09...	--	1	10	3	7	<.1	1	24	12	.08	5.0
FEB 11...	--	--	--	--	--	--	--	19	--	--	36
APR 29...	--	--	--	--	--	--	--	16	--	.11	61
AUG 10...	--	--	--	--	--	--	--	13	--	--	51

SUWANNEE RIVER BASIN

02315550 SUWANNEE RIVER AT SUWANNEE SPRINGS, FL

LOCATION.--Lat 30°23'34", long 82°56'00", in NE¼ sec.20, T.1 S., R.14 E., Suwannee County, Hydrologic Unit 03110201, on left bank 0.2 mi (0.3 km) upstream from springs at town of Suwannee Springs, 7.5 mi (12.1 km) north of Live Oak, and 150 mi (241 km) upstream from mouth.

DRAINAGE AREA.--2,630 mi² (6,810 km²), approximately, includes part of watershed in Okefenokee Swamp, which is indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year. Prior to November 1960, six miscellaneous discharge measurements made in 1906, 1951 and 1956. November 1960 to September 1974 (gage heights and discharge measurements only); gage heights published since October 1962.

REVISED RECORDS.--WSP 2105: WDR FL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Dec. 13, 1960 to Apr. 26, 1972 and Aug. 21, 1974 to May 8, 1980, auxiliary nonrecording gage 0.3 mi (0.5 km) downstream from base gage at same datum.

REMARKS.--Records good. Flow affected by backwater from Withlacoochee River at times.

AVERAGE DISCHARGE.--8 years (water years 1975-82), 1,633 ft³/s (46.25 m³/s), 8.43 in/yr (214 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,100 ft³/s (852 m³/s) Apr. 12, 1973, gage height, 78.91 ft (24.052 m), from floodmarks; minimum, 70 ft³/s (1.98 m³/s) Nov. 7, 1978; minimum gage height, 37.00 ft (11.278 m) estimated, Nov. 2, 3, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,920 ft³/s (111 m³/s) April 12; maximum gage height, 49.75 ft (15.164 m); minimum, 89 ft³/s (2.52 m³/s) Oct. 23, gage height, 37.29 ft (11.366 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	144	121	146	583	880	1880	1730	1720	314	1210	3040	751
2	132	118	155	749	833	1780	1590	1710	316	1100	2930	682
3	125	118	170	725	837	1660	1460	1690	295	987	2880	613
4	118	120	182	654	1020	1540	1330	1640	247	870	2760	554
5	112	138	181	608	1190	1440	1220	1570	231	768	2550	569
6	109	200	171	608	1250	1480	1110	1490	212	803	2400	527
7	101	201	170	587	1240	1830	1030	1400	200	840	2410	493
8	102	177	161	624	1210	2170	1030	1330	188	823	2570	470
9	104	161	151	693	1180	2230	1370	1250	175	813	2830	460
10	108	163	147	691	1220	2170	1820	1160	165	751	2750	538
11	114	252	141	643	1240	2110	2780	1050	157	721	2540	601
12	117	330	138	587	1270	2030	3780	940	164	714	2300	608
13	114	307	140	603	1380	1910	3860	842	182	700	2110	711
14	118	276	141	897	1670	1830	3660	756	212	672	2050	842
15	124	250	163	1330	1800	1750	3430	682	206	718	2110	784
16	116	228	204	1460	1850	1680	3230	634	195	922	2050	737
17	110	206	234	1400	2020	1590	3040	585	253	932	1930	666
18	110	203	232	1290	2270	1490	2870	538	464	1000	1810	592
19	106	201	229	1190	2380	1410	2730	491	569	1150	1770	578
20	108	207	215	1150	2380	1330	2610	449	487	1540	1720	631
21	104	206	206	1130	2350	1250	2480	419	449	2100	1680	657
22	97	191	198	1110	2310	1200	2310	375	672	2150	1720	675
23	91	184	193	1100	2260	1430	2160	352	935	2060	1810	615
24	94	182	187	1090	2210	1650	1990	334	830	2090	1840	523
25	102	174	184	1090	2170	1880	1830	332	763	2170	1740	464
26	121	164	204	1080	2120	2190	1710	309	842	2190	1520	443
27	125	158	237	1070	2050	2250	1660	307	971	2160	1350	419
28	122	154	245	1060	1970	2090	1720	281	1140	2620	1210	390
29	118	151	243	1040	---	1970	1760	271	1290	3490	1100	358
30	125	147	268	974	---	1920	1750	266	1300	3450	1000	336
31	130	---	356	927	---	1840	---	273	---	3200	865	---
TOTAL	3521	5688	5992	28743	46560	54980	65050	25446	14424	45714	63345	17287
MEAN	114	190	193	927	1663	1774	2168	821	481	1475	2043	576
MAX	144	330	356	1460	2380	2250	3860	1720	1300	3490	3040	842
MIN	91	118	138	583	833	1200	1030	266	157	672	865	336
CFSM	.04	.07	.07	.35	.63	.68	.82	.31	.18	.56	.78	.22
IN.	.05	.08	.08	.41	.66	.78	.92	.36	.20	.65	.90	.24
AC-FT	6980	11280	11890	57010	92350	109100	129000	50470	28610	90670	125600	34290
CAL YR 1981	TOTAL	232454	MEAN	637	MAX	3800	MIN 91	CFSM .24	IN 3.29	AC-FT	461100	
WTR YR 1982	TOTAL	376750	MEAN	1032	MAX	3860	MIN 91	CFSM .39	IN 5.33	AC-FT	747300	

SUWANNEE RIVER BASIN

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02315550 SUWANNEE RIVER AT SUWANNEE SPRINGS, FL--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37.65	37.54	37.71	40.19	41.36	44.42	43.98	43.94	38.98	42.43	47.46	40.85
2	37.58	37.52	37.77	40.97	41.20	44.11	43.60	43.90	38.99	42.09	47.19	40.60
3	37.54	37.52	37.87	40.87	41.21	43.78	43.20	43.86	38.87	41.70	47.07	40.32
4	37.50	37.53	37.96	40.54	41.86	43.46	42.82	43.72	38.58	41.29	46.77	40.09
5	37.46	37.65	37.95	40.33	42.40	43.15	42.49	43.52	38.48	40.92	46.24	40.15
6	37.45	38.08	37.88	40.33	42.59	43.28	42.13	43.29	38.35	41.05	45.86	39.97
7	37.39	38.09	37.87	40.23	42.56	44.26	41.87	43.03	38.28	41.18	45.89	39.84
8	37.40	37.92	37.81	40.40	42.45	45.22	41.89	42.81	38.20	41.12	46.30	39.74
9	37.41	37.81	37.74	40.72	42.37	45.41	42.94	42.56	38.11	41.09	46.95	39.69
10	37.44	37.82	37.72	40.71	42.50	45.24	44.24	42.26	38.04	40.85	46.76	40.02
11	37.49	38.41	37.68	40.49	42.56	45.06	46.80	41.92	37.98	40.74	46.22	40.27
12	37.51	38.90	37.66	40.23	42.64	44.81	49.32	41.54	38.03	40.71	45.60	40.30
13	37.49	38.77	37.67	40.31	42.99	44.50	49.58	41.19	38.16	40.66	45.06	40.70
14	37.52	38.58	37.68	41.60	43.81	44.25	49.00	40.87	38.36	40.55	44.87	41.19
15	37.56	38.41	37.81	43.22	44.17	44.05	48.44	40.59	38.32	40.73	45.06	40.98
16	37.50	38.26	38.11	43.67	44.31	43.84	47.96	40.40	38.25	41.48	44.89	40.80
17	37.46	38.12	38.30	43.56	44.78	43.59	47.48	40.21	38.62	41.51	44.55	40.52
18	37.46	38.10	38.29	43.32	45.52	43.31	47.04	40.02	39.70	41.76	44.19	40.24
19	37.43	38.09	38.27	43.11	45.81	43.06	46.70	39.83	40.15	42.24	44.08	40.18
20	37.44	38.13	38.18	42.91	45.81	42.82	46.40	39.65	39.81	43.43	43.95	40.39
21	37.41	38.12	38.12	42.77	45.73	42.59	46.05	39.51	39.65	45.02	43.84	40.49
22	37.36	38.02	38.07	42.64	45.62	42.43	45.63	39.31	40.53	45.17	43.93	40.56
23	37.31	37.97	38.03	42.50	45.48	43.13	45.19	39.19	41.52	44.92	44.20	40.33
24	37.33	37.96	37.99	42.46	45.36	43.74	44.70	39.09	41.14	45.00	44.28	39.96
25	37.40	37.90	37.97	42.46	45.24	44.41	44.25	39.08	40.90	45.22	44.00	39.71
26	37.54	37.83	38.11	42.42	45.08	45.27	43.90	38.94	41.19	45.28	43.37	39.62
27	37.57	37.79	38.32	42.26	44.89	45.46	43.78	38.94	41.65	45.19	42.88	39.51
28	37.55	37.76	38.38	42.09	44.66	45.00	43.95	38.79	42.21	46.37	42.44	39.38
29	37.52	37.74	38.36	41.89	---	44.65	44.06	38.73	42.68	48.61	42.07	39.22
30	37.57	37.72	38.52	41.69	---	44.52	44.01	38.70	42.73	48.51	41.75	39.10
31	37.60	---	39.04	41.53	---	44.30	---	38.74	---	47.89	41.27	---
TOTAL	1161.84	1140.06	1178.84	1292.42	1224.96	1367.12	1353.40	1268.13	1186.46	1334.71	1388.99	1204.72
MEAN	37.48	38.00	38.03	41.69	43.75	44.10	45.11	40.91	39.55	43.06	44.81	40.16
MAX	37.65	38.90	39.04	43.67	45.81	45.46	49.58	43.94	42.73	48.61	47.46	41.19
MIN	37.31	37.52	37.66	40.19	41.20	42.43	41.87	38.70	37.98	40.55	41.27	39.10
CAL YR 1981	TOTAL	14543.97	MEAN	39.85	MAX	50.14	MIN	37.31				
WTR YR 1982	TOTAL	15101.65	MEAN	41.37	MAX	49.58	MIN	37.31				

SUWANNEE RIVER BASIN

02315550 SUWANNEE RIVER AT SUWANNEE SPRINGS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1956 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	HARD-NESS (MG/L AS CaCO3)	HARD-NESS, NONCAR-BONATE (MG/L CaCO3)
OCT 05...	1714	132	280	6.6	26.0	2.0	6.0	73	1.1	--	--
DEC 09...	1330	151	223	7.0	14.0	3.0	7.4	71	1.4	--	--
FEB 11...	0830	1230	108	5.0	15.5	1.8	--	--	1.1	--	--
APR 27...	1515	1660	72	5.3	20.0	--	7.2	79	1.1	--	--
JUN 07...	1730	197	175	7.1	29.0	1.4	5.4	70	1.5	74	31
AUG 02...	1530	2920	62	5.7	27.5	.70	5.2	--	.8	--	--

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LILITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT 05...	--	--	--	--	--	--	--	--	1.9	--	--
DEC 09...	--	--	--	--	--	--	--	--	1.2	--	--
FEB 11...	--	--	--	--	--	--	--	--	1.0	--	--
APR 27...	--	--	--	--	--	--	--	--	--	--	--
JUN 07...	20	5.9	8.8	.5	43	6.6	23	10	.7	9.5	184
AUG 02...	--	--	--	--	--	--	--	--	.4	--	--

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS TOTAL (MG/L AS P)
OCT 05...	--	--	--	1.4	.030	1.4	.210	.85	1.06	2.5	3.40
DEC 09...	--	--	--	1.3	.030	1.3	.170	.67	.84	2.2	3.50
FEB 11...	--	--	--	.29	.020	.31	.200	1.1	1.30	1.6	1.20
APR 27...	--	--	--	.18	.020	.20	.090	1.3	1.39	1.6	.620
JUN 07...	104	.25	97.9	.35	.010	.36	.050	.77	.82	1.2	2.80
AUG 02...	--	--	--	.09	.020	.11	.030	1.4	1.43	1.5	.670

[illegible]

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

[illegible]

SUWANNEE RIVER BASIN

02315648 ALAPAHA RISE NEAR FORT UNION, FL

LOCATION.--Lat 30°26'18", long 83°05'18", in SE¼ sec.35, T.1 N., R.12 E., Hamilton County, Hydrologic Unit 03110201, at head of main boil, 3.1 mi (5.0 km) northwest of Fort Union, and 10 mi (16 km) southwest of Jasper.

PERIOD OF RECORD.--

DISCHARGE: November 1975, July and August 1977 (discharge measurements only); September 1977 to current year (gage heights and discharge measurements only).

WATER TEMPERATURE: November 1975 to current year.

GAGE.--Nonrecording. Datum of gage is National Geodetic Vertical Datum of 1929. Since May 1980, several nonrecording gages at various sites and datums.

REMARKS.--Flow consists of ground-water flow. Flow affected by backwater from Suwannee River at times.

COOPERATION.--Discharge measurements were furnished by Suwannee River Water Management District.

AVERAGE DISCHARGE.--46 measurements, 518 ft³/s, 335 mgd (14.670 m³/s).

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum measured, 1,040 ft³/s (29.4 m³/s) Mar. 14, 1979, maximum gage height, 49.54 ft (14.798 m) Mar. 21, 1978 (back-water from Suwannee River); minimum measured, 294 ft³/s (8.33 m³/s) Dec. 19, 1978, (corrected).

WATER TEMPERATURE: Maximum observed, 25.0°C June 30, 1981, minimum observed, 18.0°C Oct. 1, 1981.

DISCHARGE MEASUREMENTS AND WATER TEMPERATURES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)
OCT					MAY				
01...	1405	--	306	18.0	04...	1257	34.76	706	20.0
01...	1550	32.46	306	18.0					
08...	1050	32.83	326	20.5					

02317620 ALAPAHA RIVER NEAR JENNINGS, FL

LOCATION.--Lat 30°35'53", long 83°04'24", in SW¼ sec.1, T.2 N., R.12 E., Hamilton County, Hydrologic Unit 03110202, near left bank on downstream side of bridge on State Highway 150, 150 ft (46 m) upstream from Southern Railroad bridge, 1,400 ft (427 m) downstream from Apalahoochee River, 1.5 mi (2.4 km) south of Florida-Georgia State line, and 1.6 mi (2.6 km) southeast of Jennings.

DRAINAGE AREA.--1,680 mi² (4,350 km²), approximately.

PERIOD OF RECORD.--July 1976 to current year. Prior to July 28, 1976 (one miscellaneous discharge measurement in 1923, three in 1928 and six made by Suwannee River Water Management District in 1976).

GAGE.--Water-stage recorder. Datum of gage is 58.22 ft (17.745 m) National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to August 18, 1928, nonrecording gage at site 150 ft (46 m) downstream at datum unknown.

REMARKS.--Records good.

AVERAGE DISCHARGE.--6 years, (water years 1977-82) 1,346 ft³/s (38.12 m³/s), 10.88 in/yr (276 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,000 ft³/s (396 m³/s) estimated from comparison of peak discharge with Alapaha River near Statenville, Georgia (02317500), Feb. 9, 1978, gage height, 30.8 ft (9.39 m); minimum, 39 ft³/s (1.11 m³/s) Oct. 20-22, 1982, gage height, 3.32 ft (1.011 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum measured discharge, 17,900 ft³/s (507 m³/s) May 2, 1928, gage height not determined.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,400 ft³/s (39.65 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)
Jan. 18	0500	3,670 104	13.98 4.261	Apr. 13	0100	2,430 68.8	10.67 3.252
Feb. 6	1700	3,200 90.6	12.73 3.880	May 1	1700	2,610 73.9	11.16 3.401
Feb. 23	1000	*5,020 142	17.52 5.340	Aug. 1	0700	1,970 55.8	9.40 2.865

Minimum discharge, 39 ft³/s (1.11 m³/s) Oct. 20-22, gage height, 3.32 ft (1.011 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	43	66	98	1070	2540	4000	1050	2590	310	1000	1960	337	
2	42	62	162	1220	2410	3650	1040	2580	350	849	1920	336	
3	41	58	154	1290	2390	3290	1020	2540	346	737	1820	336	
4	40	56	156	1190	2700	2970	969	2440	325	643	1730	320	
5	40	57	150	1080	2960	2690	907	2330	408	563	1700	327	
6	40	74	144	1050	3170	2700	882	2210	439	501	1710	319	
7	40	133	131	1080	3100	2850	885	2100	404	482	1710	284	
8	40	148	122	1290	2890	3000	925	2000	449	543	1630	254	
9	41	137	116	1470	2720	3000	1250	1890	491	545	1400	301	
10	44	125	112	1590	2710	2810	1610	1760	463	560	1120	800	
11	49	168	112	1630	2790	2570	2230	1570	402	518	949	724	
12	57	174	140	1670	2930	2400	2400	1330	409	507	858	889	
13	59	178	170	1840	3290	2290	2400	1090	452	541	846	1070	
14	55	174	187	2340	3670	2230	2320	896	454	470	910	915	
15	50	148	267	2860	3990	2180	2240	735	479	446	975	816	
16	46	125	319	3310	4160	2130	2200	616	492	560	1030	817	
17	44	118	380	3610	4290	2090	2160	531	783	546	1080	754	
18	41	114	390	3650	4380	2030	2190	464	1050	480	1210	633	
19	41	116	332	3580	4500	1970	2220	412	968	567	1160	534	
20	40	116	290	3470	4660	1910	2220	408	756	751	1080	495	
21	39	109	272	3360	4830	1860	2190	409	705	669	937	577	
22	40	103	267	3320	4960	1790	2080	365	825	611	818	607	
23	40	98	290	3360	5010	1690	1830	334	798	555	769	658	
24	42	93	342	3450	4970	1610	1550	365	688	565	786	748	
25	49	95	401	3480	4850	1570	1380	321	893	558	800	760	
26	81	96	467	3440	4690	1490	1560	301	897	792	811	655	
27	116	98	471	3310	4520	1350	1830	331	998	966	776	539	
28	137	100	471	3140	4290	1210	2240	306	1190	1150	671	446	
29	123	98	475	2980	---	1120	2530	295	1220	1350	554	365	
30	91	98	555	2820	---	1070	2580	287	1130	1580	453	308	
31	74	---	775	2660	---	1060	---	291	---	1860	373	---	
TOTAL	1725	3335	8718	75610	104370	68580	52888	34097	19574	22465	34546	16924	
MEAN	55.6	111	281	2439	3728	2212	1763	1100	652	725	1114	564	
MAX	137	178	775	3650	5010	4000	2580	2590	1220	1860	1960	1070	
MIN	39	56	98	1050	2390	1060	882	287	310	446	373	254	
CFSM	.03	.07	.17	1.45	2.22	1.32	1.05	.66	.39	.43	.66	.34	
IN.	.04	.07	.19	1.67	2.31	1.52	1.17	.76	.43	.50	.76	.37	
AC-FT	3420	6610	17290	150000	207000	136000	104900	67630	38830	44560	68520	33570	
CAL YR 1981 TOTAL	101510	MEAN	278	MAX	1920	MIN	39	CFSM	.17	IN	2.25	AC-FT	201300
WTR YR 1982 TOTAL	442832	MEAN	1213	MAX	5010	MIN	39	CFSM	.72	IN	9.81	AC-FT	878400

SUWANNEE RIVER BASIN

02317620 ALAPAHA RIVER NEAR JENNINGS, FL--Continued.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.37	3.56	3.76	6.94	10.98	14.85	6.89	11.12	4.73	6.76	9.36	4.81
2	3.36	3.53	4.10	7.36	10.62	13.93	6.88	11.09	4.85	6.34	9.25	4.81
3	3.35	3.50	4.06	7.56	10.55	12.98	6.80	10.96	4.84	6.03	8.99	4.81
4	3.34	3.48	4.07	7.28	11.41	12.13	6.67	10.71	4.78	5.75	8.75	4.76
5	3.33	3.49	4.04	6.99	12.09	11.37	6.50	10.39	5.02	5.50	8.65	4.79
6	3.33	3.62	4.01	6.89	12.65	11.40	6.43	10.06	5.11	5.29	8.69	4.76
7	3.33	3.95	3.94	6.97	12.48	11.82	6.44	9.77	5.01	5.23	8.69	4.64
8	3.33	4.03	3.89	7.57	11.91	12.22	6.55	9.49	5.13	5.43	8.48	4.52
9	3.35	3.97	3.86	8.05	11.46	12.21	7.46	9.18	5.26	5.44	7.87	4.67
10	3.38	3.91	3.84	8.37	11.44	11.69	8.43	8.82	5.17	5.49	7.09	6.20
11	3.42	4.13	3.84	8.48	11.66	11.05	10.11	8.31	5.00	5.35	6.62	5.99
12	3.49	4.16	3.99	8.59	12.01	10.59	10.59	7.68	5.03	5.31	6.37	6.45
13	3.51	4.18	4.14	9.04	12.97	10.29	10.60	7.02	5.14	5.42	6.33	6.96
14	3.47	4.16	4.22	10.43	13.98	10.12	10.37	6.46	5.14	5.19	6.51	6.52
15	3.43	4.03	4.57	11.83	14.84	9.99	10.16	6.02	5.21	5.13	6.69	6.24
16	3.39	3.91	4.76	13.03	15.28	9.85	10.03	5.67	5.26	5.49	6.85	6.25
17	3.38	3.87	4.94	13.82	15.63	9.74	9.92	5.39	6.15	5.44	6.99	6.07
18	3.35	3.85	4.97	13.94	15.86	9.57	10.02	5.18	6.89	5.22	7.35	5.72
19	3.35	3.86	4.80	13.76	16.17	9.39	10.10	5.03	6.67	5.50	7.19	5.40
20	3.34	3.86	4.66	13.46	16.59	9.23	10.09	5.02	6.08	6.06	6.99	5.27
21	3.32	3.82	4.59	13.17	17.02	9.08	10.00	5.02	5.93	5.83	6.58	5.54
22	3.33	3.79	4.57	13.05	17.35	8.90	9.70	4.90	6.27	5.65	6.25	5.64
23	3.34	3.76	4.66	13.15	17.49	8.65	9.01	4.81	6.20	5.47	6.12	5.80
24	3.36	3.73	4.83	13.40	17.39	8.43	8.28	4.90	5.88	5.50	6.16	6.06
25	3.42	3.74	5.00	13.49	17.08	8.32	7.80	4.77	6.46	5.48	6.20	6.09
26	3.65	3.75	5.18	13.37	16.67	8.11	8.30	4.70	6.47	6.18	6.23	5.79
27	3.86	3.76	5.19	13.02	16.21	7.72	9.00	4.80	6.75	6.66	6.13	5.42
28	3.97	3.77	5.19	12.58	15.63	7.35	10.14	4.72	7.30	7.16	5.84	5.12
29	3.90	3.76	5.20	12.16	---	7.09	10.95	4.68	7.36	7.72	5.47	4.90
30	3.72	3.76	5.46	11.73	---	6.95	11.09	4.65	7.13	8.35	5.14	4.72
31	3.62	---	6.13	11.29	---	6.92	---	4.67	---	9.08	4.92	---
TOTAL	107.09	114.69	140.46	330.77	395.42	311.94	265.31	215.99	172.22	184.45	218.75	164.72
MEAN	3.45	3.82	4.53	10.67	14.12	10.06	8.84	6.97	5.74	5.95	7.06	5.49
MAX	3.97	4.18	6.13	13.94	17.49	14.85	11.09	11.12	7.36	9.08	9.36	6.96
MIN	3.32	3.48	3.76	6.89	10.55	6.92	6.43	4.65	4.73	5.13	4.92	4.52
CAL YR 1981	TOTAL	1595.13	MEAN	4.37	MAX	9.26	MIN	3.32				
WTR YR 1982	TOTAL	2621.81	MEAN	7.18	MAX	17.49	MIN	3.32				

02319000 WITHLACOCHEE RIVER NEAR PINETTA, FL

LOCATION.--Lat 30°35'43", long 83°15'35", in NW¼ sec.7, T.2 N., R.11 E., Madison County, Hydrologic Unit 03110203, on right bank 30 ft (9 m) downstream from bridge, 0.1 mi (0.2 km) downstream from small tributary, 0.3 mi (0.5 km) west of Bellville, 5.6 mi (9.0 km) east of Pinetta, and 22 mi (35 km) upstream from mouth.

DRAINAGE AREA.--2,120 mi² (5,490 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only for October and November 1931, published in WSP 1304.

REVISED RECORDS.--WSP 972: 1941-42. WSP 1905: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is 47.21 ft (14.390 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Oct. 11, 1931 to Dec. 3, 1941, nonrecording gage at same site and datum. Dec. 3, 1941 to Aug. 2, 1972, water-stage recorder at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--51 years, 1,650 ft³/s (46.73 m³/s), 10.58 in/yr (269 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 79,400 ft³/s (2,250 m³/s) Apr. 5, 1948, gage height, 38.64 ft (11.777 m), from floodmarks; minimum, 70 ft³/s (1.98 m³/s) Aug. 23, 1955, gage height, 6.27 ft (1.911 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1928 reached a stage of 36.75 ft (11.201 m) from floodmarks, discharge, 53,600 ft³/s (1,520 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 6,950 ft³/s (197 m³/s) Feb. 23, gage height, 17.52 ft (5.340 m) observed; minimum daily, 107 ft³/s (3.03 m³/s) Oct. 21, gage height, 6.46 ft (1.969 m) observed.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	137	117	220	1170	1950	3050	1340	3550	900	1330	1770	615		
2	135	117	257	1290	1900	2500	1300	3900	1070	1310	1900	505		
3	130	117	257	1380	1830	2150	1220	4240	972	1200	2010	415		
4	125	115	257	1550	2450	1920	1120	4530	912	1090	2100	373		
5	125	125	271	1530	3150	1760	1030	4790	876	936	2230	369		
6	122	145	278	1500	3470	1740	1020	4490	681	840	2310	369		
7	120	250	271	1760	3720	2090	984	3390	571	725	2310	360		
8	120	271	285	1950	3970	2510	966	2160	505	637	2100	332		
9	115	264	360	2180	4290	2640	1430	1270	465	576	1960	332		
10	120	235	405	2390	4550	2640	1680	1080	455	527	1570	549		
11	137	238	435	2520	4800	2720	2020	972	440	485	1250	571		
12	125	271	460	2390	4890	2720	2510	972	505	470	1030	1020		
13	120	278	445	2490	5050	2590	2780	972	571	470	1070	1010		
14	120	295	445	2750	5130	2360	3000	918	560	495	1160	1030		
15	125	264	460	3860	5100	2550	3170	882	465	505	1270	876		
16	122	226	571	3440	4950	2560	3250	714	435	495	1390	780		
17	125	235	571	3860	4910	2300	3200	648	360	505	1520	741		
18	115	235	637	3950	5240	1950	2970	549	364	549	1680	708		
19	111	226	637	3990	5600	1630	2490	490	387	681	1870	900		
20	109	264	582	4240	5990	1470	1940	455	313	810	2030	900		
21	107	306	626	4510	6400	1400	1560	445	320	852	1630	870		
22	109	320	670	4450	6660	1330	1430	435	360	864	1550	758		
23	115	320	670	4530	6950	1370	1250	465	475	888	1430	725		
24	120	313	670	4450	6650	1300	1090	495	495	828	1370	670		
25	125	299	697	4110	6300	1270	1120	505	505	840	1500	593		
26	182	264	670	3550	5670	1370	1270	571	505	972	1660	560		
27	205	264	697	2990	5110	1390	1940	571	571	1150	1680	549		
28	223	260	725	2540	3860	1380	2640	538	948	1250	1570	527		
29	185	235	747	2340	---	1360	3230	516	1090	1340	1220	415		
30	150	223	852	2160	---	1320	3550	626	1090	1430	984	405		
31	132	---	1030	2060	---	1560	---	659	---	1480	780	---		
TOTAL	4111	7092	16158	87880	130540	60900	58500	46798	18166	26530	49904	18827		
MEAN	133	236	521	2835	4662	1965	1950	1510	606	856	1610	628		
MAX	223	320	1030	4530	6950	3050	3550	4790	1090	1480	2310	1030		
MIN	107	115	220	1170	1830	1270	966	435	313	470	780	332		
CFSM	.06	.11	.25	1.34	2.20	.93	.92	.71	.29	.40	.76	.30		
IN.	.07	.12	.28	1.54	2.29	1.07	1.03	.82	.32	.47	.88	.33		
AC-FT	8150	14070	32050	174300	258900	120800	116000	92820	36030	52620	98980	37340		
CAL YR 1981	TOTAL	165738	MEAN	454	MAX	3590	MIN	95	CFSM	.21	IN	2.91	AC-FT	328700
WTR YR 1982	TOTAL	525406	MEAN	1439	MAX	6950	MIN	107	CFSM	.68	IN	9.22	AC-FT	1042000

[illegible]

WATER-QUALITY RECORDS

[illegible]

SUWANNEE RIVER BASIN

02319500 SUWANNEE RIVER AT ELLAVILLE, FL

LOCATION.--Lat 30°23'04", long 83°10'19", in NE¼ sec.24, T.1 S., R.11 E., Suwannee County, Hydrologic Unit 03110205, on left bank at Ellaville, 100 ft (30 m) upstream from Seaboard Air Line Railroad bridge, 200 ft (61 m) downstream from Withlacoochee River, 900 ft (274 m) upstream from bridge on U.S. Highway 90, and 127 mi (204 km) upstream from mouth.

DRAINAGE AREA.--6,970 mi² (18,052 km²), approximately, includes part of watershed in Okefenokee Swamp which is indeterminate.

PERIOD OF RECORD.--January 1927 to current year.

REVISED RECORDS.--WSP 1905: WDR FL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 27.22 ft (8.297 m) National Geodetic Vertical Datum of 1929. Prior to June 20, 1932, nonrecording gage at same site and datum. Nov. 8, 1955 to Sept. 30, 1970, nonrecording gage 1.1 mi (1.8 km) downstream from base gage at datum 2.67 ft (0.814 m) lower, used as supplementary gage when flow was less than 4,800 ft³/s (136 m³/s).

REMARKS.--Records good. Since Nov. 7, 1953, slight regulation at low water caused by diversions above control 0.7 mi (1.1 km) downstream from gage by a steam-electric powerplant for cooling of condensers. Total diverted flow is returned to river below control. Records include flow of large spring on left bank about 200 ft (61 m) downstream; spring flow may reverse during high stages.

AVERAGE DISCHARGE.--55 years, 6,439 ft³/s (182.4 m³/s), 12.54 in/yr (319 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 95,300 ft³/s (2,700 m³/s) Apr. 7, 8, 1948, gage height, 40.88 ft (12.460 m), from floodmarks; minimum, 882 ft³/s (25.0 m³/s) July 17, 1955; minimum gage height, 1.56 ft (0.475 m) Dec. 1, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,800 ft³/s (334 m³/s) Feb. 24, gage height, 12.40 ft (3.780 m); minimum, 1,030 ft³/s (29.2 m³/s) Oct. 24, gage height, 1.77 ft (0.539 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	1260	1100	1340	2790	6650	10300	5880	8050	3080	4560	6880	3870		
2	1240	1080	1390	3270	6470	9710	5730	8230	3140	4530	7040	3640		
3	1200	1070	1300	3590	6370	9220	5570	8410	3130	4380	7160	3460		
4	1190	1070	1420	3680	6510	8760	5350	8600	3050	4160	7230	3330		
5	1170	1100	1330	3650	7020	8320	5150	8680	2950	3900	7250	3250		
6	1170	1150	1320	3700	7510	8030	4950	8590	2830	3800	7250	3150		
7	1150	1230	1320	3810	7870	8070	4850	8160	2720	3690	7280	3070		
8	1130	1290	1400	3970	8080	8290	4850	7430	2620	3580	7290	3010		
9	1120	1300	1320	4240	8260	8520	5030	6810	2550	3520	7290	2980		
10	1130	1310	1350	4500	8390	8570	5550	6360	2510	3450	7090	3130		
11	1140	1350	1370	4690	8530	8500	6320	6010	2480	3360	6730	3490		
12	1130	1470	1400	4810	8710	8390	7390	5700	2480	3310	6350	3670		
13	1120	1530	1440	4930	8920	8280	8090	5380	2530	3260	6060	3790		
14	1110	1520	1540	5220	9220	8180	8400	5040	2570	3240	5930	4020		
15	1120	1480	1630	5850	9540	8070	8550	4700	2540	3200	5960	3940		
16	1120	1430	1620	6520	9740	7910	8630	4390	2470	3310	6000	3810		
17	1130	1380	1780	7020	9960	7690	8660	4080	2510	3400	6020	3700		
18	1170	1340	1830	7380	10300	7400	8600	3830	2660	3460	6050	3620		
19	1190	1350	1820	7620	10600	7090	8440	3620	2920	3570	6170	3600		
20	1210	1350	1800	7800	10900	6790	8170	3450	2890	3920	6120	3590		
21	1110	1360	1810	7940	11200	6550	7830	3330	2800	4370	6010	3590		
22	1050	1370	1880	8060	11500	6380	7500	3280	2980	4620	5900	3550		
23	1050	1360	1970	8170	11600	6310	7170	3230	3230	4680	5780	3500		
24	1040	1350	2000	8230	11800	6320	6830	3180	3290	4670	5720	3420		
25	1080	1330	2070	8240	11800	6330	6540	3140	3280	4680	5700	3370		
26	1200	1300	2140	8140	11600	6410	6380	3090	3420	4830	5650	3320		
27	1190	1280	2210	7790	11300	6490	6540	3050	3510	5080	5550	3210		
28	1190	1320	2220	7610	10800	6410	6970	2940	3910	5450	5390	3090		
29	1190	1300	2200	7330	---	6300	7450	2870	4260	6070	5010	2980		
30	1150	1240	2280	7090	---	6160	7810	2850	4470	6450	4630	2890		
31	1120	---	2500	6890	---	6030	---	2970	---	6680	4250	---		
TOTAL	35570	39110	53000	184530	261150	235780	205180	159450	89780	131180	192740	103040		
MEAN	1147	1304	1710	5953	9327	7606	6839	5144	2993	4232	6217	3435		
MAX	1260	1530	2500	8240	11800	10300	8660	8680	4470	6680	7290	4020		
MIN	1040	1070	1300	2790	6370	6030	4850	2850	2470	3200	4250	2890		
CFSM	.17	.19	.25	.85	1.34	1.09	.98	.74	.43	.61	.89	.49		
IN.	.19	.21	.28	.98	1.39	1.26	1.10	.85	.48	.70	1.03	.55		
AC-FT	70550	77570	105100	366000	518000	467700	407000	316300	178100	260200	382300	204400		
CAL YR 1981	TOTAL	885050	MEAN	2425	MAX	8020	MIN	1040	CFSM	.35	IN	4.72	AC-FT	1755000
WTR YR 1982	TOTAL	1690510	MEAN	4632	MAX	11800	MIN	1040	CFSM	.67	IN	9.02	AC-FT	3353000

02319500 SUWANNEE RIVER AT ELLAVILLE, FL--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.97	1.83	2.03	3.24	6.95	10.88	6.09	8.49	3.49	4.79	7.20	4.16
2	1.95	1.82	2.07	3.64	6.75	10.31	5.94	8.69	3.53	4.75	7.38	3.96
3	1.92	1.80	2.00	3.91	6.63	9.78	5.77	8.90	3.53	4.62	7.52	3.80
4	1.91	1.81	2.10	3.99	6.79	9.28	5.55	9.10	3.46	4.42	7.58	3.69
5	1.89	1.83	2.03	3.96	7.36	8.80	5.36	9.20	3.38	4.18	7.61	3.62
6	1.89	1.87	2.02	4.01	7.90	8.47	5.15	9.10	3.28	4.10	7.61	3.54
7	1.88	1.94	2.01	4.11	8.29	8.51	5.06	8.62	3.18	4.00	7.64	3.47
8	1.86	2.00	2.08	4.25	8.53	8.76	5.06	7.81	3.10	3.90	7.65	3.42
9	1.85	2.00	2.02	4.49	8.73	9.01	5.24	7.12	3.05	3.85	7.66	3.40
10	1.85	2.01	2.04	4.73	8.88	9.08	5.75	6.62	3.01	3.79	7.44	3.52
11	1.86	2.04	2.06	4.90	9.04	9.00	6.58	6.23	2.98	3.72	7.04	3.83
12	1.86	2.14	2.08	5.02	9.23	8.87	7.76	5.91	2.99	3.68	6.61	3.98
13	1.85	2.19	2.11	5.13	9.46	8.75	8.55	5.58	3.03	3.63	6.29	4.08
14	1.84	2.18	2.20	5.42	9.78	8.64	8.89	5.24	3.06	3.61	6.14	4.29
15	1.85	2.15	2.27	6.07	10.13	8.52	9.05	4.92	3.04	3.58	6.17	4.22
16	1.85	2.11	2.26	6.80	10.34	8.34	9.14	4.63	2.98	3.67	6.22	4.10
17	1.85	2.07	2.39	7.36	10.56	8.10	9.17	4.35	3.01	3.75	6.24	4.01
18	1.89	2.04	2.44	7.75	10.86	7.78	9.11	4.12	3.13	3.80	6.27	3.94
19	1.91	2.04	2.43	8.02	11.20	7.43	8.93	3.94	3.35	3.89	6.40	3.92
20	1.92	2.04	2.41	8.22	11.50	7.10	8.63	3.79	3.33	4.20	6.36	3.91
21	1.84	2.05	2.42	8.38	11.81	6.83	8.25	3.69	3.25	4.61	6.22	3.91
22	1.79	2.06	2.48	8.51	12.06	6.65	7.88	3.65	3.40	4.84	6.11	3.88
23	1.79	2.05	2.56	8.63	12.24	6.57	7.52	3.61	3.61	4.90	5.99	3.83
24	1.78	2.05	2.58	8.70	12.36	6.56	7.15	3.57	3.66	4.89	5.93	3.77
25	1.81	2.03	2.64	8.70	12.36	6.58	6.82	3.53	3.65	4.90	5.90	3.73
26	1.92	2.00	2.70	8.59	12.19	6.68	6.64	3.49	3.76	5.04	5.85	3.68
27	1.91	1.99	2.76	8.21	11.90	6.77	6.82	3.45	3.84	5.28	5.75	3.59
28	1.91	2.01	2.76	8.01	11.43	6.67	7.30	3.36	4.19	5.65	5.59	3.49
29	1.91	2.00	2.75	7.70	---	6.55	7.83	3.31	4.51	6.29	5.22	3.40
30	1.87	1.96	2.81	7.43	---	6.40	8.23	3.29	4.70	6.72	4.85	3.32
31	1.85	---	3.00	7.21	---	6.25	---	3.39	---	6.98	4.50	---
TOTAL	58.03	60.11	72.51	195.09	275.26	247.92	215.22	170.70	102.48	140.03	200.94	113.46
MEAN	1.87	2.00	2.34	6.29	9.83	8.00	7.17	5.51	3.42	4.52	6.48	3.78
MAX	1.97	2.19	3.00	8.70	12.36	10.88	9.17	9.20	4.70	6.98	7.66	4.29
MIN	1.78	1.80	2.00	3.24	6.63	6.25	5.06	3.29	2.98	3.58	4.50	3.32
CAL YR 1981	TOTAL	1133.54	MEAN	3.11	MAX	8.89	MIN	1.78				
WTR YR 1982	TOTAL	1851.75	MEAN	5.07	MAX	12.36	MIN	1.78				

SUWANNEE RIVER BASIN

02320500 SUWANNEE RIVER AT BRANFORD, FL
(National stream-quality accounting network station)

LOCATION.--Lat 29°57'20". long 82°55'40", in NE¼ sec.20, T.6 S., R.14 E., Suwannee County, Hydrologic Unit 03110205, near left bank on upstream side of bridge on U.S. Highway 27 at Branford, 10.2 mi (17.4 km) upstream from Santa Fe River and 75 mi (121 km) upstream from mouth.

DRAINAGE AREA.--7,880 mi² (20,410 km²), includes part of watershed in Okefenokee Swamp which is indeterminate.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1905: WDR FL-75-1: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is 4.81 ft (1.466 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--51 years, 6,882 ft³/s (194.9 m³/s), 11.86 in/yr (301 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,900 ft³/s (2,380 m³/s) Apr. 11, 1948, gage height, 34.07 ft (10.385 m); minimum, 1,530 ft³/s (43.3 m³/s) July 1, 2, 1955; minimum gage height, 1.97 ft (0.600 m) observed, Jan. 10, 11, 14, 17, 1956.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 1928 reached a stage of 32.0 ft (9.75 m) from floodmark; discharge, 65,000 ft³/s (1,840 m³/s) computed on basis of measured crest flow at Ellaville (station 02319500).

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 10,200 ft³/s (288 m³/s) Feb. 26, 27, gage height, 13.64 ft (4.157 m) observed; minimum daily, 1,940 ft³/s (54.9 m³/s) Oct. 21, Nov. 2-4; minimum gage height, 2.94 ft (0.896 m) observed, Nov. 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	2120	1950	1990	2690	6690	9950	6690	8190	4150	4910	6840	5910		
2	2100	1940	2060	2820	6540	9710	6560	8320	4220	4980	7060	5660		
3	2080	1940	2040	3080	6500	9420	6510	8440	4270	5020	7220	5420		
4	2040	1940	2010	3340	6450	9120	6390	8540	4250	5000	7350	5200		
5	2030	1960	1990	3410	6400	8840	6230	8680	4210	4920	7440	5020		
6	2020	2000	2000	3450	6580	8670	6120	8760	4110	4820	7520	4940		
7	2020	1960	2010	3540	6930	8430	5910	8770	4000	4740	7590	4790		
8	2010	1960	2030	3660	7070	8320	5790	8530	3890	4670	7620	4660		
9	2000	2030	2040	3700	7280	8330	6000	8250	3800	4570	7690	4550		
10	2000	2060	2020	3850	7430	8410	6070	7900	3710	4490	7730	4600		
11	2010	2150	2020	4010	7520	8460	6460	7590	3650	4420	7640	4590		
12	2000	2080	2040	4150	7620	8460	7020	7300	3600	4380	7470	4740		
13	1980	2090	2060	4320	7770	8410	7580	7010	3570	4340	7230	4880		
14	1960	2120	2090	4490	7900	8360	8200	6750	3550	4270	7080	5000		
15	1950	2150	2210	4640	8070	8310	8540	6460	3540	4240	7040	5120		
16	1960	2150	2170	4920	8270	8250	8880	6170	3530	4270	6970	5150		
17	1980	2160	2160	5320	8490	8150	9120	5890	3520	4330	6940	5140		
18	1990	2110	2220	5700	8650	8020	9290	5660	3590	4420	6920	5080		
19	1980	2080	2260	5770	8840	7860	9330	5430	3640	4490	6940	5020		
20	1950	2090	2270	6270	9080	7680	9290	5180	3700	4600	6970	4990		
21	1940	2070	2280	6490	9330	7500	9150	5020	3780	4800	6950	4960		
22	1950	2050	2300	6690	9530	7320	8930	4850	3880	5060	6930	4970		
23	1960	2050	2340	6840	9780	7240	8630	4720	3910	5250	6860	4870		
24	1950	2070	2350	7020	9960	7070	8400	4680	4060	5360	6800	4790		
25	1960	2080	2360	7070	10100	7060	8150	4570	4170	5430	6730	4720		
26	2010	2060	2390	7130	10200	7040	7970	4490	4180	5480	6710	4700		
27	2040	2050	2440	7190	10200	6990	7720	4440	4260	5550	6690	4660		
28	2000	2060	2470	7150	10100	6990	7770	4390	4340	5760	6650	4570		
29	1990	2030	2470	7040	---	6970	7860	4260	4500	6020	6590	4480		
30	1980	2000	2470	6920	---	6860	8020	4190	4710	6330	6400	4360		
31	1960	---	2490	6750	---	6770	---	4140	---	6600	6160	---		
TOTAL	61920	61440	68050	159420	229280	248970	228580	197570	118290	153520	218730	147540		
MEAN	1997	2048	2195	5143	8189	8031	7619	6373	3943	4952	7056	4918		
MAX	2120	2160	2490	7190	10200	9950	9330	8770	4710	6600	7730	5910		
MIN	1940	1940	1990	2690	6400	6770	5790	4140	3520	4240	6160	4360		
CFSM	.25	.26	.28	.65	1.04	1.02	.97	.81	.50	.63	.90	.62		
IN.	.29	.29	.32	.75	1.08	1.18	1.08	.93	.56	.72	1.03	.70		
AC-FT	122800	121900	135000	316200	454800	493800	453400	391900	234600	304500	433900	292600		
CAL YR 1981	TOTAL	1172540	MEAN	3212	MAX	8170	MIN	1940	CFSM	.41	IN	5.54	AC-FT	2326000
WTR YR 1982	TOTAL	1893310	MEAN	5187	MAX	10200	MIN	1940	CFSM	.66	IN	8.94	AC-FT	3755000

02320500 SUWANNEE RIVER AT BRANFORD, FL--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.30	2.96	3.05	4.34	9.78	13.39	9.77	11.57	6.60	7.68	10.14	9.04
2	3.26	2.94	3.18	4.55	9.60	13.16	9.63	11.73	6.71	7.77	10.39	8.73
3	3.22	2.94	3.15	4.98	9.55	12.87	9.57	11.88	6.77	7.82	10.57	8.43
4	3.15	2.95	3.08	5.39	9.49	12.57	9.44	11.98	6.75	7.80	10.71	8.15
5	3.12	2.98	3.05	5.51	9.45	12.29	9.24	12.13	6.70	7.69	10.81	7.92
6	3.11	3.06	3.06	5.56	9.65	12.12	9.12	12.21	6.56	7.56	10.90	7.81
7	3.10	2.99	3.09	5.69	10.05	11.87	8.86	12.22	6.40	7.47	10.97	7.61
8	3.08	2.98	3.12	5.87	10.20	11.73	8.72	11.97	6.24	7.37	11.01	7.44
9	3.06	3.12	3.14	5.94	10.43	11.74	8.97	11.65	6.12	7.24	11.08	7.29
10	3.07	3.19	3.10	6.16	10.62	11.84	9.05	11.21	5.98	7.13	11.12	7.36
11	3.09	3.35	3.11	6.38	10.74	11.90	9.51	10.82	5.89	7.02	11.03	7.34
12	3.07	3.22	3.15	6.58	10.87	11.90	10.14	10.46	5.82	6.98	10.84	7.54
13	3.03	3.25	3.19	6.83	11.05	11.84	10.81	10.14	5.78	6.92	10.58	7.73
14	2.98	3.31	3.24	7.05	11.22	11.77	11.59	9.84	5.75	6.89	10.41	7.89
15	2.97	3.35	3.48	7.26	11.42	11.71	11.98	9.52	5.74	6.86	10.36	8.04
16	2.99	3.36	3.40	7.63	11.67	11.64	12.33	9.18	5.72	6.90	10.29	8.09
17	3.03	3.38	3.37	8.14	11.93	11.52	12.57	8.84	5.71	6.98	10.25	8.07
18	3.04	3.28	3.49	8.61	12.09	11.37	12.74	8.57	5.81	7.10	10.23	7.99
19	3.03	3.22	3.57	8.70	12.29	11.17	12.78	8.29	5.88	7.20	10.25	7.92
20	2.97	3.24	3.59	9.29	12.53	10.94	12.74	7.97	5.98	7.36	10.29	7.88
21	2.95	3.21	3.60	9.54	12.78	10.70	12.60	7.76	6.10	7.63	10.26	7.84
22	2.96	3.17	3.64	9.77	12.98	10.49	12.38	7.55	6.24	7.97	10.24	7.85
23	2.98	3.17	3.71	9.95	13.22	10.39	12.07	7.38	6.29	8.21	10.16	7.72
24	2.97	3.21	3.74	10.14	13.40	10.20	11.83	7.32	6.51	8.36	10.09	7.61
25	2.98	3.23	3.76	10.20	13.55	10.19	11.52	7.19	6.66	8.44	10.01	7.52
26	3.09	3.18	3.81	10.27	13.62	10.16	11.30	7.08	6.68	8.51	9.99	7.49
27	3.14	3.16	3.90	10.33	13.64	10.12	10.98	7.00	6.79	8.60	9.96	7.44
28	3.06	3.18	3.95	10.29	13.57	10.12	11.05	6.93	6.91	8.86	9.92	7.32
29	3.04	3.12	3.95	10.16	---	10.09	11.17	6.76	7.13	9.17	9.85	7.19
30	3.03	3.07	3.96	10.04	---	9.97	11.37	6.67	7.41	9.55	9.63	7.02
31	2.98	---	3.99	9.84	---	9.87	---	6.59	---	9.86	9.34	---
TOTAL	94.85	94.77	106.62	240.99	321.39	351.64	325.83	290.41	189.63	240.90	321.68	233.27
MEAN	3.06	3.16	3.44	7.77	11.48	11.34	10.86	9.37	6.32	7.77	10.38	7.78
MAX	3.30	3.38	3.99	10.33	13.64	13.39	12.78	12.22	7.41	9.86	11.12	9.04
MIN	2.95	2.94	3.05	4.34	9.45	9.87	8.72	6.59	5.71	6.86	9.34	7.02
CAL YR 1981	TOTAL	1807.10	MEAN	4.95	MAX	11.19	MIN	2.94				
WTR YR 1982	TOTAL	2811.98	MEAN	7.70	MAX	13.64	MIN	2.94				

SUWANNEE RIVER BASIN

02320500 SUWANNEE RIVER AT BRANFORD, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1954 to September 1957, October 1962 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)
OCT 29...	1435	2000	342	8.2	18.5	.70	7.3	--	23	19	164
DEC 22...	1400	2310	295	7.8	15.0	1.6	8.1	.7	17	27	123
FEB 11...	1325	7530	--	--	15.0	5.1	7.6	1.2	K3	K2	30
APR 30...	0920	8020	137	7.4	20.0	7.5	6.0	1.3	<1	32	60
JUN 11...	1000	3650	290	7.9	25.5	2.1	5.6	.4	28	24	137
AUG 12...	1200	7470	143	7.3	26.0	3.6	6.5	1.1	<1	38	67

DATE	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
OCT 29...	24	50	9.6	4.8	6	.2	.5	140	1.7	25	6.3
DEC 22...	13	36	8.1	8.3	13	.3	1.0	110	3.4	23	7.9
FEB 11...	14	8.4	2.2	5.9	29	.5	1.6	16	--	6.0	9.1
APR 30...	13	18	3.7	5.3	16	.3	.9	47	3.6	8.0	7.8
JUN 11...	16	41	8.4	5.7	8	.2	.6	121	2.9	17	6.3
AUG 12...	18	20	4.2	4.6	13	.3	.6	49	4.8	8.0	6.9

DATE	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
OCT 29...	.3	8.0	--	189	.26	1020	--	<.010	.73	.72	.050
DEC 22...	.3	8.7	177	161	.24	1100	--	<.010	.74	.75	.070
FEB 11...	.1	6.6	90	50	.12	1830	.26	.010	.27	.35	.090
APR 30...	.1	6.4	116	79	.16	2510	.54	.020	.56	.61	.050
JUN 11...	.2	8.1	174	161	.24	1710	.89	.010	.90	.91	.070
AUG 12...	.2	7.1	134	82	.18	2700	.48	.020	.50	.60	.030

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
OCT 29...	.020	.03	.09	.14	.87	.300	.92	.290	.290	.290	.89
DEC 22...	.070	.09	.41	.48	1.2	.440	1.4	.430	.440	.440	1.3
FEB 11...	.060	.08	.46	.55	.82	.180	.55	.140	.150	.130	.40
APR 30...	.040	.05	.59	.64	1.2	.240	.74	.140	.180	.160	.49
JUN 11...	.060	.08	.33	.40	1.3	.230	.71	.240	.230	.230	.71
AUG 12...	.030	.04	.77	.80	1.3	.320	.98	.240	.270	.230	.71

02320500 SUWANNEE RIVER AT BRANFORD, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDE RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE RECOV- ERABLE (UG/L AS CR)
OCT 29...	<10	1	0	1	100	90	10	<1	<1	10	--
DEC 22...	--	1	1	0	<100	--	12	1	<1	20	10
FEB 11...	--	--	--	--	--	--	--	--	--	--	--
APR 30...	--	2	1	1	<100	--	26	1	<1	20	10
JUN 11...	--	--	--	--	--	--	--	--	--	--	--
AUG 12...	--	2	0	2	100	70	28	1	<1	10	0

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)
OCT 29...	<10	1	<1	6	5	1	100	80	24	2	--
DEC 22...	10	<1	1	6	4	2	220	70	150	<1	--
FEB 11...	--	--	--	--	--	--	--	--	--	--	--
APR 30...	10	<1	<1	3	2	1	1000	540	460	4	3
JUN 11...	--	--	--	--	--	--	--	--	--	--	--
AUG 12...	10	5	<1	4	2	2	1100	560	540	3	0

DATE	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)
OCT 29...	<1	10	4	6	<.1	<.1	1	--	<1	<1
DEC 22...	<1	20	10	6	.1	<.1	3	0	3	<1
FEB 11...	--	--	--	--	--	--	--	--	--	--
APR 30...	1	50	40	13	<.1	<.1	6	0	6	<1
JUN 11...	--	--	--	--	--	--	--	--	--	--
AUG 12...	3	50	20	26	<.1	<.1	5	4	1	<1

DATE	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 29...	<1	<1	<1	40	--	<4	2.0	5	27	40
DEC 22...	<1	<1	<1	50	40	6	7.0	6	37	50
FEB 11...	--	--	--	--	--	--	16	16	325	38
APR 30...	<1	<1	<1	10	0	15	22	20	433	50
JUN 11...	--	--	--	--	--	--	6.3	9	89	33
AUG 12...	<1	<1	<1	40	--	<4	30	8	161	38

SUWANNEE RIVER BASIN

02320700 SANTA FE RIVER NEAR GRAHAM, FL

LOCATION.--Lat 29°50'46", long 82°13'11", in NE¼ sec.32, T.7 S., R.21 E., Alachua County, Hydrologic Unit 03110206, near left bank on upstream side of bridge on State Highway 225, 1.0 mi (1.6 km) south of Graham, 1.5 mi (2.4 km) upstream from Sampson River, and 71 mi (114 km) upstream from mouth.

DRAINAGE AREA.--94.9 mi² (245.8 km²).

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

REVISED RECORDS.--WSP 2105: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 103.55 ft (31.562 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Records do not include diversions during periods of high stages from Santa Fe Lake through Lochloosa Creek in St. Johns River basin.

AVERAGE DISCHARGE.--25 years, 58.3 ft³/s (1.651 m³/s), 8.34 in/yr (212 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,360 ft³/s (66.8 m³/s) Sept. 12, 1964, gage height, 14.97 ft (4.563 m); minimum, 0.02 ft³/s (0.001 m³/s) June 1, 1981, gage height, 2.72 ft (0.853 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 443 ft³/s (14.0 m³/s) Apr. 11, at 1200, gage height, 11.69 ft (3.563 m), no peak above base of 400 ft³/s (11.3 m³/s); minimum, 0.35 ft³/s (0.010 m³/s) Oct. 23, 24, gage height, 2.96 ft (0.902 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	1.1	2.9	15	27	17	58	40	23	63	115	32
2	2.4	1.3	4.7	15	25	16	52	36	29	55	98	29
3	1.9	1.3	6.8	12	25	15	44	32	26	47	85	25
4	1.5	1.2	6.1	14	30	14	38	28	24	41	72	22
5	1.2	2.2	5.2	20	28	14	34	26	23	34	61	20
6	2.0	5.6	4.5	19	26	34	34	23	21	40	53	22
7	2.9	5.9	4.2	19	25	51	31	22	17	44	48	20
8	2.6	4.5	3.9	20	23	68	80	20	15	58	45	19
9	2.4	3.7	3.7	20	22	87	290	18	13	94	125	18
10	2.2	3.9	3.4	18	21	88	295	15	9.6	89	115	26
11	2.2	7.6	3.2	16	20	73	443	14	7.4	195	100	52
12	2.6	9.8	3.1	14	19	60	408	12	7.0	180	85	104
13	2.5	8.5	3.4	17	29	50	367	9.6	13	201	71	110
14	2.2	7.4	3.6	126	30	44	321	8.3	8.8	155	61	109
15	1.9	6.6	3.5	210	29	40	278	6.7	6.2	125	63	96
16	1.6	5.9	3.2	264	31	36	236	5.6	5.3	98	73	82
17	1.3	6.3	3.0	209	35	33	197	4.8	5.4	77	103	68
18	1.1	6.7	2.8	170	36	30	167	3.8	45	61	106	56
19	.88	5.9	2.7	146	32	27	146	3.2	85	54	112	47
20	.70	5.4	2.5	120	31	25	127	2.7	74	53	121	42
21	.59	5.0	2.4	97	29	23	106	2.2	68	57	121	45
22	.48	4.5	2.4	82	27	21	89	2.2	65	64	123	43
23	.41	4.2	2.3	70	24	24	76	3.0	79	61	111	36
24	.44	4.0	2.3	61	22	24	64	4.0	119	59	96	31
25	1.6	3.8	2.3	53	21	29	59	3.7	106	57	81	29
26	2.3	3.6	3.3	47	20	28	59	4.9	100	58	67	118
27	2.1	3.4	7.4	42	19	27	56	4.9	114	51	57	136
28	1.7	3.2	7.2	38	18	27	51	8.8	97	59	49	100
29	1.4	3.1	6.0	34	---	43	47	11	81	86	43	80
30	1.2	3.0	5.6	32	---	53	43	11	70	115	38	68
31	1.2	---	7.3	29	---	55	---	16	---	120	35	---
TOTAL	52.40	138.6	124.9	2049	724	1176	4296	402.4	1356.7	2551	2533	1685
MEAN	1.69	4.62	4.03	66.1	25.9	37.9	143	13.0	45.2	82.3	81.7	56.2
MAX	2.9	9.8	7.4	264	36	88	443	40	119	201	125	136
MIN	.41	1.1	2.3	12	18	14	31	2.2	5.3	34	35	18
CFSM	.02	.05	.04	.70	.27	.40	1.51	.14	.48	.87	.86	.59
IN.	.02	.05	.05	.80	.28	.46	1.68	.16	.53	1.00	.99	.66
AC-FT	104	275	248	4060	1440	2330	8520	798	2690	5060	5020	3340
CAL YR 1981	TOTAL	4040.26	MEAN 11.1	MAX 145	MIN .03	CFSM .12	IN 1.58	AC-FT	8010			
WTR YR 1982	TOTAL	17089.00	MEAN 46.8	MAX 443	MIN .41	CFSM .49	IN 6.70	AC-FT	33900			

02321500 SANTA FE RIVER AT WORTHINGTON SPRINGS, FL
(National stream-quality accounting network station)

LOCATION.--Lat 29°55'18", long 82°25'35", in SE¼ sec.32, T.6 S., R.19 E., Alachua County, Hydrologic Unit 03110206, near center of span on downstream side of bridge on State Highway 121, 0.5 mi (0.8 km) south of Worthington Springs, 0.8 mi (1.3 km) downstream from New River, and 51 mi (82 km) upstream from mouth.

DRAINAGE AREA.--575 mi² (1,489 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1931 to current year. Published as "near Worthington" prior to October 1965. Monthly discharge only for October 1931, published in WSP 1304.

REVISED RECORDS.--WSP 2105: WDR FL-76-4: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 42.74 ft (13.027 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Jan. 16, 1939, nonrecording gage at site 0.2 mi (0.3 km) downstream at present datum and Jan. 16, 1939, to July 23, 1953, nonrecording gage at present site and datum.

REMARKS.--Records good except those for period of no gage-height record, June 14 to Aug. 25, which are poor. Records do not include diversions, during periods of high stages from Santa Fe Lake through Lochloosa Creek in St. Johns River basin.

AVERAGE DISCHARGE.--51 years, 438 ft³/s (12.40 m³/s), 10.34 in/yr (263 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,000 ft³/s (566 m³/s) Sept. 13, 1964, gage height, 28.40 ft (8.656 m); minimum, 0.50 ft³/s (0.014 m³/s) June 24, 1955, gage height, 6.74 ft (2.054 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,040 ft³/s (114 m³/s) Apr. 13, gage height, 19.10 ft (5.822 m); minimum, 10 ft³/s (0.28 m³/s) for part or all of each day Oct. 22-25, gage height, 7.08 ft (2.158 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	39	11	19	57	178	108	351	224	97	1000	1300	610		
2	37	12	28	62	166	100	338	205	159	880	1400	520		
3	34	12	35	62	166	93	317	187	178	760	1300	450		
4	30	11	37	63	205	87	289	170	149	620	1100	370		
5	27	14	36	66	218	90	255	153	114	540	1000	330		
6	25	20	35	66	211	240	265	138	94	450	850	280		
7	23	24	33	67	201	409	262	125	77	380	750	240		
8	21	23	30	70	190	490	402	115	65	420	650	200		
9	20	22	28	72	180	490	1470	104	57	580	560	180		
10	19	24	26	71	170	531	2080	94	51	940	800	190		
11	18	41	24	68	162	573	3130	83	49	1000	1400	170		
12	18	47	24	63	157	589	3760	76	50	1400	1400	350		
13	16	43	25	68	183	577	3970	70	50	1900	1200	600		
14	16	41	26	184	208	522	3540	66	43	1900	1000	1200		
15	15	37	30	378	217	441	2950	62	41	1950	880	1290		
16	14	34	30	424	236	360	2380	59	37	1800	760	1200		
17	13	33	28	505	259	292	1900	55	35	1300	650	1050		
18	13	31	28	626	282	237	1540	51	80	1000	700	828		
19	12	30	27	701	269	198	1290	46	270	840	820	664		
20	12	29	26	733	247	171	1030	43	780	620	980	546		
21	11	27	24	727	225	149	796	39	750	510	1100	482		
22	10	25	23	661	204	132	648	37	720	520	1200	540		
23	10	24	23	566	185	129	527	36	680	540	1300	603		
24	10	25	22	473	167	138	437	40	650	550	1300	660		
25	10	24	22	392	151	202	382	44	800	560	1400	676		
26	11	23	30	330	138	228	357	67	1100	560	1440	691		
27	11	23	34	283	126	218	328	74	1300	550	1280	711		
28	11	23	37	249	117	206	295	74	1300	550	1060	768		
29	11	22	39	224	---	258	267	78	1300	560	980	958		
30	11	20	41	205	---	331	245	74	1200	750	850	942		
31	11	---	42	190	---	351	---	79	---	1100	700	---		
TOTAL	539	775	912	8706	5418	8940	35801	2768	12276	27030	32110	18299		
MEAN	17.4	25.8	29.4	281	194	288	1193	89.3	409	872	1036	610		
MAX	39	47	42	733	282	589	3970	224	1300	1950	1440	1290		
MIN	10	11	19	57	117	87	245	36	35	380	560	170		
CFSM	.03	.05	.05	.49	.34	.50	2.08	.16	.71	1.52	1.80	1.06		
IN.	.03	.05	.06	.56	.35	.58	2.32	.18	.79	1.75	2.08	1.18		
AC-FT	1070	1540	1810	17270	10750	17730	71010	5490	24350	53610	63690	36300		
CAL YR 1981	TOTAL	35704.3	MEAN	97.8	MAX	1660	MIN	4.1	CFSM	.17	IN	2.31	AC-FT	70820
WTR YR 1982	TOTAL	153574.0	MEAN	421	MAX	3970	MIN	10	CFSM	.73	IN	9.94	AC-FT	304600

SUWANNEE RIVER BASIN

02321500 SANTA FE RIVER AT WORTHINGTON SPRINGS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1957 to September 1960, October 1963 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MP (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)
OCT 30...	1115	11	238	6.9	20.5	1.0	6.8	39	50	73	24
DEC 23...	1330	23	240	7.3	11.5	.50	11.1	120	140	78	25
FEB 26...	0930	138	138	7.0	15.0	1.5	6.8	38	160	43	21
APR 30...	1605	242	115	6.6	20.0	1.3	9.3	<1	120	36	22
JUN 11...	1440	48	139	7.1	28.0	1.5	6.4	54	>200	49	18
AUG 26...	0955	1450	54	6.2	26.0	3.0	5.5	200	670	21	12
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
OCT 30...	18	6.7	17	33	.9	1.1	49	12	34	19	.3
DEC 23...	19	7.5	16	30	.8	1.5	53	5.1	29	17	.3
FEB 26...	11	3.8	12	37	.8	1.1	22	4.3	20	15	.2
APR 30...	9.8	2.9	9.1	34	.7	1.0	14	6.8	15	9.9	.1
JUN 11...	12	4.6	10	30	.6	1.2	31	4.8	15	10	.2
AUG 26...	5.3	1.8	4.4	30	.4	1.0	9.0	11	8.0	7.0	<.1
DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)
OCT 30...	2.5	134	129	.18	4.1	.08	.050	.06	.91	.320	.98
DEC 23...	1.2	150	125	.20	9.3	.16	.060	.08	.82	.480	1.5
FEB 26...	3.4	134	80	.18	49.9	.23	.090	.12	.85	.180	.55
APR 30...	4.5	138	62	.19	90.2	.23	.060	.08	.96	.180	.55
JUN 11...	5.0	128	78	.17	16.6	.41	.030	.04	1.40	.340	1.0
AUG 26...	5.0	114	39	.16	446	.19	.050	.06	1.20	.220	.67
DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDE RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)
OCT 30...	.300	.300	.92	1	0	1	100	80	20	<1	<1
DEC 23...	.470	.490	1.5	1	1	0	<100	--	14	<1	<1
FEB 26...	.150	.180	.55	--	--	--	--	--	--	--	--
APR 30...	.160	.140	.43	2	1	1	<100	--	24	<1	<1
JUN 11...	.310	.320	.98	--	--	--	--	--	--	--	--
AUG 26...	.190	.190	.58	1	0	1	<100	--	22	--	--

02321500 SANTA FE RIVER AT WORTHINGTON SPRINGS, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	CHROMIUM, SUS- PENDE RECOV. (UG/L AS CR)	CHROMIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COBALT, SUS- PENDE RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)
OCT 30...	10	--	<10	<1	--	<1	6	--	<1	130	40
DEC 23...	20	10	10	<1	--	2	6	2	4	110	40
FEB 26...	--	--	--	--	--	--	--	--	--	--	--
APR 30...	10	--	<10	<1	--	<1	3	1	2	560	50
JUN 11...	--	--	--	--	--	--	--	--	--	--	--
AUG 26...	20	0	20	3	1	2	8	5	3	750	160

DATE	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MANGANESE, SUS- PENDE RECOV. (UG/L AS MN)	MANGANESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)
OCT 30...	87	2	<1	20	10	9	<.1	--	<.1	1	--
DEC 23...	68	<1	<1	20	20	3	.1	.0	.1	<1	--
FEB 26...	--	--	--	--	--	--	--	--	--	--	--
APR 30...	510	3	<1	30	10	17	<.1	--	<.1	2	0
JUN 11...	--	--	--	--	--	--	--	--	--	--	--
AUG 26...	590	--	--	30	4	26	.4	.3	.1	3	1

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOVERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	SEDIMENT, SUS- PENDE (MG/L)	SEDIMENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. & FINER THAN .062 MM
OCT 30...	<1	<1	<1	<1	<1	40	40	4	2	.06	50
DEC 23...	<1	<1	<1	<1	<1	50	40	9	5	.31	40
FEB 26...	--	--	--	--	--	--	--	--	4	1.5	50
APR 30...	2	<1	<1	<1	<1	20	2	18	5	3.3	60
JUN 11...	--	--	--	--	--	--	--	--	6	.78	50
AUG 26...	2	<1	<1	<1	<1	20	10	10	7	27	57

SUWANNEE RIVER BASIN

02321898 SANTA FE RIVER AT OLENO STATE PARK, FL

LOCATION.--Lat 29°54'51", long 82°34'48", in NE¼ sec.2, T.7 S., R.17 E., Alachua County, Hydrologic Unit 03110206, near left bank on downstream side of footbridge at Oleno State Park, 0.5 mi (0.8 km) upstream from submergence, 4.8 mi (7.7 km) west of Bland, and 36 mi (57.9 km) upstream from mouth.

DRAINAGE AREA.--820 mi² (2,124 km²).

PERIOD OF RECORD.--

DISCHARGE: February 1961, April 1977 (one discharge measurement each year); July 1977 to current year (gage heights and discharge measurements only) incomplete.

WATER TEMPERATURE: April 1977 to current year (fragmentary).

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--All flow enters sinkhole 0.5 mi (0.8 km) downstream from gage.

COOPERATION.--Four measurements were furnished by Suwannee River Water Management District.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum measured, 1,870 ft³/s (53.0 m³/s) Aug. 16, 1978; minimum measured, 17 ft³/s (0.48 m³/s) Nov. 2, 1981.

WATER TEMPERATURE: Maximum observed, 28.0°C Aug. 6, 1980; minimum observed, 12.0°C Feb. 14, 1978.

DISCHARGE MEASUREMENTS AND WATER TEMPERATURES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)
NOV					JAN				
02...	1215	1.01	17	--	05...	1555	--	--	16.0
DEC					FEB				
03...	1055	1.05	21	17.5	11...	1200	1.90	196	18.0
JAN									
05...	1155	1.33	42	16.5					

02321910 SANTA FE RIVER AT THE RISE NEAR HIGH SPRINGS, FL

LOCATION.--Lat 29°52'23", long 82°35'26", in SW¼ sec.14, T.7 S., R.17 E., Alachua County, Hydrologic Unit 03110206, 200 ft (61 m) downstream from rise, 500 ft (152 m) northeast of the corner of Aluchia-Columbia County lines and 3.2 mi (5.1 km) north of High Springs.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--

DISCHARGE: January 1980 to current year (gage height and discharge measurements only).

WATER TEMPERATURE: January 1980 to current year.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Suwannee River Water Management District).

REMARKS.--Most of the flow is ground-water return of the river to surface water, from station (02321898).

COOPERATION.--Discharge measurements furnished by Suwannee River Water Management District.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum measured discharge, 1,350 ft³/s (38.2 m³/s) gage height, 36.62 ft (11.162 m) Apr. 17, 1980; minimum, 70 ft³/s (1.98 m³/s); minimum gage height, 31.86 ft (9.711 m) Nov. 2, 1981.

WATER TEMPERATURE: Maximum temperature observed, 27.0°C Aug. 6, 1980; minimum, 12.0°C Feb. 12, 1980.

DISCHARGE MEASUREMENTS AND WATER TEMPERATURES, PERIOD JANUARY TO SEPTEMBER 1980

DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)
JAN					MAY				
15...	1500	33.97	437	16.0	07...	1300	34.84	679	--
FEB					AUG				
12...	1340	34.70	694	12.0	06...	1400	32.00	897	27.0
APR					SEP				
17...	1550	36.62	1350	19.5	04...	1405	33.92	404	25.5

DISCHARGE MEASUREMENTS AND WATER TEMPERATURES, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)
OCT					APR				
08...	1315	33.36	232	23.5	08...	1740	33.88	512	--
NOV					MAY				
12...	1405	33.03	172	23.0	05...	1550	32.90	192	24.0
DEC					JUN				
03...	1415	32.94	171	22.0	01...	1625	32.68	125	25.0
JAN					29...	1434	32.62	105	25.0
06...	1405	32.82	161	--	AUG				
FEB					03...	1504	32.43	124	26.0
05...	1630	32.62	128	19.5	SEP				
MAR					09...	1650	32.90	288	--
04...	1358	34.06	611	17.0	29...	1736	32.49	134	23.5

DISCHARGE MEASUREMENTS AND WATER TEMPERATURES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)
NOV					APR				
02...	1509	31.86	70	--	05...	1500	33.67	384	19.5
DEC					MAY				
03...	1312	32.00	70	22.0	05...	1630	--	514	22.0
JAN					JUN				
05...	1515	32.27	85	20.0	03...	1510	33.75	294	24.5
FEB					JUL				
11...	1640	32.80	240	18.0	12...	1705	34.82	589	25.0
MAR					SEP				
01...	1225	32.70	190	19.5	13...	1732	35.42	852	26.5

SUWANNEE RIVER BASIN

02322500 SANTA FE RIVER NEAR FORT WHITE, FL

LOCATION.--Lat 29°50'55", long 82°42'55", in SE¼ sec.28, T.7 S., R.16 E., Gilchrist County, Hydrologic Unit 03110206, on left bank 2.1 mi (3.4 km) upstream from bridge on State Highway 47, 5.1 mi (8.2 km) south of Fort White, and 18 mi (29 km) upstream from mouth.

DRAINAGE AREA.--1,017 mi² (2,630 km²).

PERIOD OF RECORD.--October 1927 to January 1930, June 1932 to current year.

REVISED RECORDS.--WDR FL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 20.86 ft (6.358 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to June 3, 1932, nonrecording gage at several sites within 200 ft (60 m) of present site at various datums. Oct. 1, 1947 to Feb. 10, 1949, auxiliary nonrecording gage and since Feb. 11, 1949, auxiliary water-stage recorder at bridge on U.S. Highway 129, 16 mi (26 km) downstream from base gage at datum 3.5 ft (1.07 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for periods of no gage-height record, Oct. 1 to Jan. 12, and June 8, to July 14, which are poor.

AVERAGE DISCHARGE.--52 years (water years 1928-29, 1933-82), 1,605 ft³/s (45.45 m³/s), 21.43 in/yr (544 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,000 ft³/s (481 m³/s) Sept. 16, 1964, gage height, 15.34 ft (4.676 m); minimum 609 ft³/s (17.2 m³/s) May 22, 1957; minimum gage height, 0.45 ft (0.137 m) Mar. 20, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,220 ft³/s (91.2 m³/s) Apr. 16, gage height, 3.78 ft (1.152 m); minimum discharge, 674 ft³/s (19.1 m³/s) part of each day Dec. 22-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	835	725	708	691	869	818	980	1640	1070	1880	2130	2150		
2	827	734	708	700	861	810	988	1610	1070	1810	2110	2090		
3	827	734	708	700	869	810	988	1570	1120	1740	2090	2010		
4	818	725	717	700	852	801	988	1540	1120	1680	2050	1950		
5	810	725	717	682	844	810	1010	1500	1120	1630	2010	1880		
6	810	734	725	682	852	818	997	1460	1120	1590	1970	1820		
7	810	734	725	691	852	835	971	1430	1110	1580	1930	1770		
8	810	784	717	700	852	869	1060	1400	1070	1590	1890	1740		
9	810	750	717	700	861	929	1150	1360	1050	1600	1880	1710		
10	801	750	708	700	852	1010	1400	1320	1030	1610	1840	1690		
11	801	759	700	700	844	1050	1840	1290	1030	1620	1820	1670		
12	801	759	700	708	844	1070	2200	1260	1030	1640	1810	1670		
13	793	768	691	717	844	1090	2490	1240	1020	1660	1830	1730		
14	793	768	691	734	835	1100	2770	1210	1010	1700	1880	1800		
15	793	759	691	717	852	1110	3010	1190	1020	1780	1910	1880		
16	785	750	691	725	861	1090	3150	1180	1030	1840	1890	1950		
17	785	750	691	768	878	1070	3140	1170	1030	1950	1870	1970		
18	776	742	691	801	878	1040	2980	1150	1050	2010	1860	1970		
19	776	734	691	861	878	1010	2790	1130	1060	2040	1870	2020		
20	768	734	691	903	886	988	2610	1120	1070	2050	1870	1970		
21	768	734	682	946	895	963	2450	1110	1080	2060	1890	1910		
22	768	734	674	971	886	946	2330	1100	1120	2060	1910	1860		
23	751	725	674	997	878	920	2200	1090	1200	2090	1920	1830		
24	751	717	674	997	878	929	2090	1080	1320	2120	1930	1830		
25	742	717	674	988	869	920	2010	1080	1480	2150	1950	1850		
26	742	717	682	971	852	912	1940	1080	1600	2180	2010	1880		
27	734	717	682	946	844	912	1860	1070	1720	2200	2100	1870		
28	734	717	691	929	835	920	1800	1070	1820	2250	2170	1870		
29	725	708	691	920	---	937	1740	1070	1890	2220	2210	1880		
30	725	708	691	903	---	946	1690	1070	1900	2200	2170	1910		
31	717	---	691	895	---	954	---	1080	---	2160	2170	---		
TOTAL	24186	22112	21584	25043	24101	29387	57622	38670	36360	58690	60940	56130		
MEAN	780	737	696	808	861	948	1921	1247	1212	1893	1966	1871		
MAX	835	784	725	997	895	1110	3150	1640	1900	2250	2210	2150		
MIN	717	708	674	682	835	801	971	1070	1010	1580	1810	1670		
CFSM	.77	.73	.68	.79	.85	.93	1.89	1.23	1.19	1.86	1.93	1.84		
IN.	.88	.81	.79	.92	.88	1.07	2.11	1.41	1.33	2.15	2.23	2.05		
AC-FT	47970	43860	42810	49670	47800	58290	114300	76700	72120	116400	120900	111300		
CAL YR 1981	TOTAL	327654	MEAN	898	MAX	1720	MIN	674	CFSM	.88	IN	11.98	AC-FT	649900
WTR YR 1982	TOTAL	454825	MEAN	1246	MAX	3150	MIN	674	CFSM	1.23	IN	16.64	AC-FT	902100

02322700 ICHETUCKNEE SPRINGS NEAR HILDRETH, FL

LOCATION.--Lat 29°57'09", long 82°47'10", in NW¼ sec.23, T.6 S., R.15 E., Suwannee County, Hydrologic Unit 03110206 on Ichetucknee River, near center of span on upstream side of bridge on U.S. Highway 27, 1.0 mi (1.6 km) east of Hildreth, 1.5 mi (2.4 km) upstream from mouth, and 3.0 mi (4.8 km) downstream from head of springs.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--

DISCHARGE: 1917, 1929-30 (one discharge measurement each water year); January 1931 to September 1977, October 1978 to current year (gage heights and discharge measurements only).

WATER TEMPERATURE: October 1967 to September 1972; October 1975 to September 1977. Records of miscellaneous temperature observations prior to October 1967 and since October 1972 are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Discharge measurements made at bridge on U.S. Highway 27, surface inflow between springs and measuring section is negligible except after heavy rains.

AVERAGE DISCHARGE.--391 measurements (1917, 1929-82) 359 ft³/s (232 mgd).

COOPERATION.--One discharge measurement was furnished by Suwannee River Water Management District.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum measured, 578 ft³/s (16.4 m³/s) Apr. 29, 1948; maximum gage height, 34.05 ft (10.378 m) Apr. 12, 1948, from flood marks (backwater from Santa Fe River); minimum measured, 241 ft³/s (6.83 m³/s) Jan. 28, 1956; minimum gage height observed, 14.67 ft (4.471 m) July 11, Aug. 22, 1956, Feb. 13, 1957.

WATER TEMPERATURE: (1967-72, 1975-79); Maximum observed, 28.0°C July 25, 1968; minimum observed, 13.5°C Dec. 30, 1970.

DISCHARGE MEASUREMENTS AND WATER TEMPERATURES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)
Apr. 19...	1345	324

SUWANNEE RIVER BASIN

02323500 SUWANNEE RIVER NEAR WILCOX, FL

LOCATION.--Lat 29°35'22", long 82°56'12", in NW¼ sec.29, T.10 S., R.14 E., Levy County, Hydrologic Unit 03110205, on left bank about 400 ft (122 m) downstream from Fort Fannin Bridge on U.S. Highway 19, 2.0 mi (3.2 km) southwest of Wilcox and 33 mi (53 km) upstream from mouth.

DRAINAGE AREA.--9,640 mi² (25,000 km²), approximately, includes part of watershed in Okefenokee Swamp which is indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1930 to September 1931, October 1941 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 1905: WDR FL-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 0.53 ft (0.162 m) below National Geodetic Vertical Datum of 1929. Prior to July 4, 1931, nonrecording gage at site 400 ft (122 m) upstream at present datum. July 4 to Sept. 30, 1931, and Mar. 26 to May 14, 1942, water-stage recorder, and May 15, 1942 to Jan. 24, 1951, nonrecording gage at present site and datum. Since Feb. 1, 1951, auxiliary water-stage recorder about 9.0 mi (14.5 km) downstream from base gage. Datum of gage is 2.99 ft (0.911 m) below National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow generally affected by tide when discharge is less than 17,500 ft³/s (496 m³/s).

AVERAGE DISCHARGE.--42 years (water years 1931, 1942-82), 10,410 ft³/s (294.8 m³/s), 14.66 in/yr (372 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 84,700 ft³/s (2,400 m³/s) Apr. 14, 1948, gage height, 22.32 ft (6.803 m); minimum daily since January 1951, 2,960 ft³/s (83.8 m³/s) Oct. 25, 1981; minimum gage height since January 1951, 0.57 ft (0.174 m) Jan. 19, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,700 ft³/s (445 m³/s) Apr. 19; maximum height, 6.39 ft (1.948 m) Apr. 21; minimum daily, 2,960 ft³/s (83.8 m³/s) Oct. 25; minimum gage height, 1.00 ft (0.305 m) Nov. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	3890	4190	3680	6080	10400	14400	10300	12900	6670	7680	9970	9980		
2	3830	3640	4110	6340	9840	14400	9760	12800	6780	7790	10300	9330		
3	4070	3970	4380	6550	9480	13700	9250	12800	6870	7730	10800	8900		
4	3860	4050	4210	6650	10100	13100	9930	12600	6430	7620	10800	8700		
5	3710	3960	4890	6750	9790	12400	9030	12900	6790	7640	10800	8560		
6	3810	4290	4110	6850	9830	12400	9430	12600	6710	7610	10800	8570		
7	3660	4400	3910	7000	10500	11400	9770	12100	6810	7510	10800	8310		
8	3770	4000	4080	7100	10200	13300	8050	11600	6460	7490	11000	8130		
9	3650	4130	4650	7200	9920	12600	9270	12400	6420	7310	11100	8120		
10	3600	4050	5260	7300	10100	12100	9980	12200	6330	7190	11300	8070		
11	3740	4540	4270	7500	10700	11900	10300	12200	6270	7160	11300	8040		
12	3900	4510	4500	7600	10500	12000	10800	11200	6300	7280	11300	8000		
13	4130	4350	4700	7700	11200	12100	11400	10700	6110	7310	11100	8120		
14	4030	4210	3680	7800	11600	12300	12300	10400	6210	7270	10800	8310		
15	3920	4030	4480	8000	11400	12000	13200	10400	6120	7390	10800	8160		
16	3570	3780	4580	8010	11100	11900	13700	10000	5760	7340	10300	8090		
17	3490	4240	4310	9010	11600	12000	14200	9490	5510	7350	10000	8020		
18	3340	3970	4480	8870	12100	12100	14600	9180	5390	7300	10100	8020		
19	4150	3830	4350	9160	12500	11800	14700	8820	6230	7350	10100	7930		
20	3670	3930	3920	9680	12600	11300	14300	8400	5910	7310	10300	7870		
21	3470	4480	3470	9730	12200	10700	14100	7980	5810	7570	10500	7830		
22	3420	4160	3440	9910	13200	10500	14000	7760	5810	7850	10500	8200		
23	3390	4080	5620	9580	13600	10700	14800	7370	6320	8060	10600	8760		
24	3590	4000	4090	10300	13000	9850	13700	7310	6570	8310	10800	8310		
25	2960	4450	4700	10300	13000	9780	12400	7240	6820	8600	10900	8270		
26	3100	4120	4480	10500	13600	10200	11500	6990	7090	8920	11000	8000		
27	3510	4060	5350	11300	13300	10700	11700	7160	7050	9110	10900	8080		
28	3760	4110	5880	10400	13400	11100	12100	7300	7190	9120	10900	8200		
29	3570	4120	5450	10500	---	10700	12500	7090	7360	9380	11100	8110		
30	3790	3980	5050	10000	---	10200	12900	6970	7400	9750	10900	7950		
31	4450	---	5200	9510	---	10200	---	6870	---	10100	10700	---		
TOTAL	114800	123630	139280	263180	320760	363830	353970	305730	193500	245400	332570	248940		
MEAN	3703	4121	4493	8490	11460	11740	11800	9862	6450	7916	10730	8298		
MAX	4450	4540	5880	11300	13600	14400	14800	12900	7400	10100	11300	9980		
MIN	2960	3640	3440	6080	9480	9780	8050	6870	5390	7160	9970	7830		
CFSM	.38	.43	.47	.88	1.19	1.22	1.22	1.02	.67	.82	1.11	.86		
IN.	.44	.48	.54	1.02	1.24	1.40	1.37	1.18	.75	.95	1.28	.96		
AC-FT	227700	245200	276300	522000	636200	721700	702100	606400	383800	486800	659700	493800		
CAL YR 1981	TOTAL	1912170	MEAN	5239	MAX	10100	MIN	2960	CFSM	.54	IN	1.38	AC-FT	3793000
WTR YR 1982	TOTAL	3005590	MEAN	8234	MAX	14800	MIN	2960	CFSM	.85	IN	11.60	AC-FT	5962000

SUWANNEE RIVER BASIN

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02323500 SUWANNEE RIVER NEAR WILCOX, FL--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.64	1.33	2.95	2.64	4.52	6.08	4.58	5.37	3.79	3.83	4.99	4.72
2	2.71	1.78	2.90	2.40	4.38	5.94	4.57	5.48	3.71	3.80	5.09	4.76
3	2.22	2.23	2.19	2.64	4.57	5.90	4.78	5.56	3.75	3.90	5.13	4.73
4	2.17	2.46	2.00	3.08	4.42	5.87	4.61	5.65	3.91	4.01	5.15	4.64
5	2.25	2.60	1.16	2.36	4.29	5.91	4.61	5.70	3.78	4.04	5.24	4.48
6	2.15	2.32	1.58	2.66	4.42	5.88	4.70	5.76	3.65	4.04	5.33	4.39
7	2.14	2.02	2.16	3.07	4.38	5.97	4.08	5.90	3.42	4.00	5.46	4.21
8	2.22	2.50	2.56	3.06	4.48	5.49	4.59	6.00	3.45	4.03	5.46	4.16
9	2.32	2.80	1.99	3.01	4.85	5.29	5.32	5.87	3.43	3.96	5.51	4.14
10	2.55	2.93	1.99	2.82	4.90	5.35	4.69	5.58	3.38	3.95	5.46	4.19
11	2.51	2.72	1.82	2.67	4.74	5.50	4.75	5.35	3.32	3.94	5.42	4.10
12	2.21	2.32	2.38	2.76	4.77	5.55	4.87	5.19	3.22	3.87	5.38	4.15
13	1.84	2.36	2.52	3.47	4.87	5.53	5.23	5.05	3.27	3.76	5.33	4.18
14	1.78	2.50	2.92	4.21	4.75	5.45	5.52	4.89	3.22	3.78	5.28	4.16
15	1.85	2.75	3.13	3.14	4.94	5.43	5.73	4.67	3.14	3.70	5.25	4.29
16	2.37	3.16	2.02	3.18	5.04	5.43	5.92	4.47	3.38	3.74	5.24	4.51
17	2.59	2.99	2.08	3.28	5.33	5.35	6.09	4.36	3.72	3.79	5.32	4.64
18	2.73	2.60	2.13	3.46	5.35	5.22	6.21	4.31	4.20	3.89	5.40	4.65
19	2.15	2.84	1.39	3.76	5.34	5.09	6.26	4.23	3.77	4.03	5.39	4.65
20	1.91	3.08	1.16	3.92	5.43	5.07	6.33	4.14	3.70	4.18	5.40	4.64
21	2.15	2.22	2.38	4.08	5.66	5.07	6.35	4.09	3.80	4.29	5.30	4.67
22	2.39	2.22	2.76	4.23	5.69	5.08	6.27	4.01	3.91	4.41	5.29	4.50
23	2.62	2.35	2.54	4.47	5.68	4.96	6.04	4.07	3.86	4.46	5.27	4.10
24	2.43	2.86	5.59	4.57	5.90	5.00	5.87	4.14	3.73	4.53	5.14	4.01
25	2.72	2.41	2.41	4.47	6.06	5.10	5.91	4.01	3.70	4.49	5.00	4.12
26	3.11	2.49	2.54	4.58	6.01	4.96	6.06	4.03	3.71	4.39	4.91	4.11
27	2.78	2.77	2.67	4.34	6.12	4.64	5.94	3.96	3.70	4.31	4.92	4.16
28	2.45	2.74	2.66	4.55	6.24	4.47	5.69	3.76	3.70	4.47	4.93	4.00
29	2.38	2.56	2.59	4.55	---	4.55	5.45	3.69	3.69	4.64	4.88	3.83
30	2.07	2.54	1.90	4.56	---	4.65	5.31	3.68	3.82	4.72	4.82	3.76
31	1.50	---	2.34	4.76	---	4.71	---	3.67	---	4.79	4.71	---
TOTAL	71.91	75.45	73.41	110.75	143.13	164.49	162.33	146.64	108.83	127.74	161.40	129.65
MEAN	2.32	2.52	2.37	3.57	5.11	5.31	5.41	4.73	3.63	4.12	5.21	4.32
MAX	3.11	3.16	5.59	4.76	6.24	6.08	6.35	6.00	4.20	4.79	5.51	4.76
MIN	1.50	1.33	1.16	2.36	4.29	4.47	4.08	3.67	3.14	3.70	4.71	3.76
CAL YR 1981	TOTAL	1117.72	MEAN	3.06	MAX	5.59	MIN	1.16				
WTR YR 1982	TOTAL	1475.73	MEAN	4.04	MAX	6.35	MIN	1.16				

SUWANNEE RIVER BASIN

02323500 SUWANNEE RIVER NEAR WILCOX, FL--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)
OCT 08...	1236	2800	331	7.8	25.0	1.0	6.9	83	.7	--	--
DEC 09...	1615	4780	360	8.0	16.0	2.0	9.2	93	.7	--	--
FEB 12...	0800	10300	128	7.3	15.5	4.4	7.1	70	1.1	46	8
APR 29...	1730	12100	214	7.8	22.0	2.5	5.8	--	1.6	--	--
JUN 10...	0900	5820	312	8.0	26.5	2.1	6.4	--	.7	153	25
AUG 04...	1430	9580	155	7.4	28.0	3.0	4.8	--	1.3	--	--

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
OCT 08...	--	--	--	--	--	--	--	--	.2	--	--
DEC 09...	--	--	--	--	--	--	--	--	.2	--	--
FEB 12...	14	2.7	5.7	.4	38	3.7	9.6	8.8	.1	6.5	109
APR 29...	--	--	--	--	--	--	--	--	.3	--	--
JUN 10...	49	7.4	8.2	.3	128	2.5	19	6.9	.2	6.5	188
AUG 04...	--	--	--	--	--	--	--	--	.3	--	--

DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)
OCT 08...	--	--	--	.71	.010	.72	.020	.24	.26	.98
DEC 09...	--	--	--	.69	.000	.69	.030	.11	.14	.83
FEB 12...	--	.15	3030	.22	.010	.23	.030	.55	.58	.81
APR 29...	--	--	--	.53	.010	.54	.030	.55	.58	1.1
JUN 10...	174	.26	2950	.72	.010	.73	.020	.55	.57	1.3
AUG 04...	--	--	--	.28	.020	.30	.020	1.0	1.02	1.3

DATE	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL)	ALUM- INUM, SUS- PENDE RECOV. (UG/L AS AL)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)
OCT 08...	.220	.180	60	30	30	3	2	<1	140	100
DEC 09...	.200	.190	--	--	--	--	--	--	--	--
FEB 12...	.200	.150	--	--	--	--	--	--	--	--
APR 29...	.190	.140	--	--	--	--	--	--	--	--
JUN 10...	.180	.180	--	--	--	--	--	--	--	--
AUG 04...	.350	.240	--	--	--	--	--	--	--	--

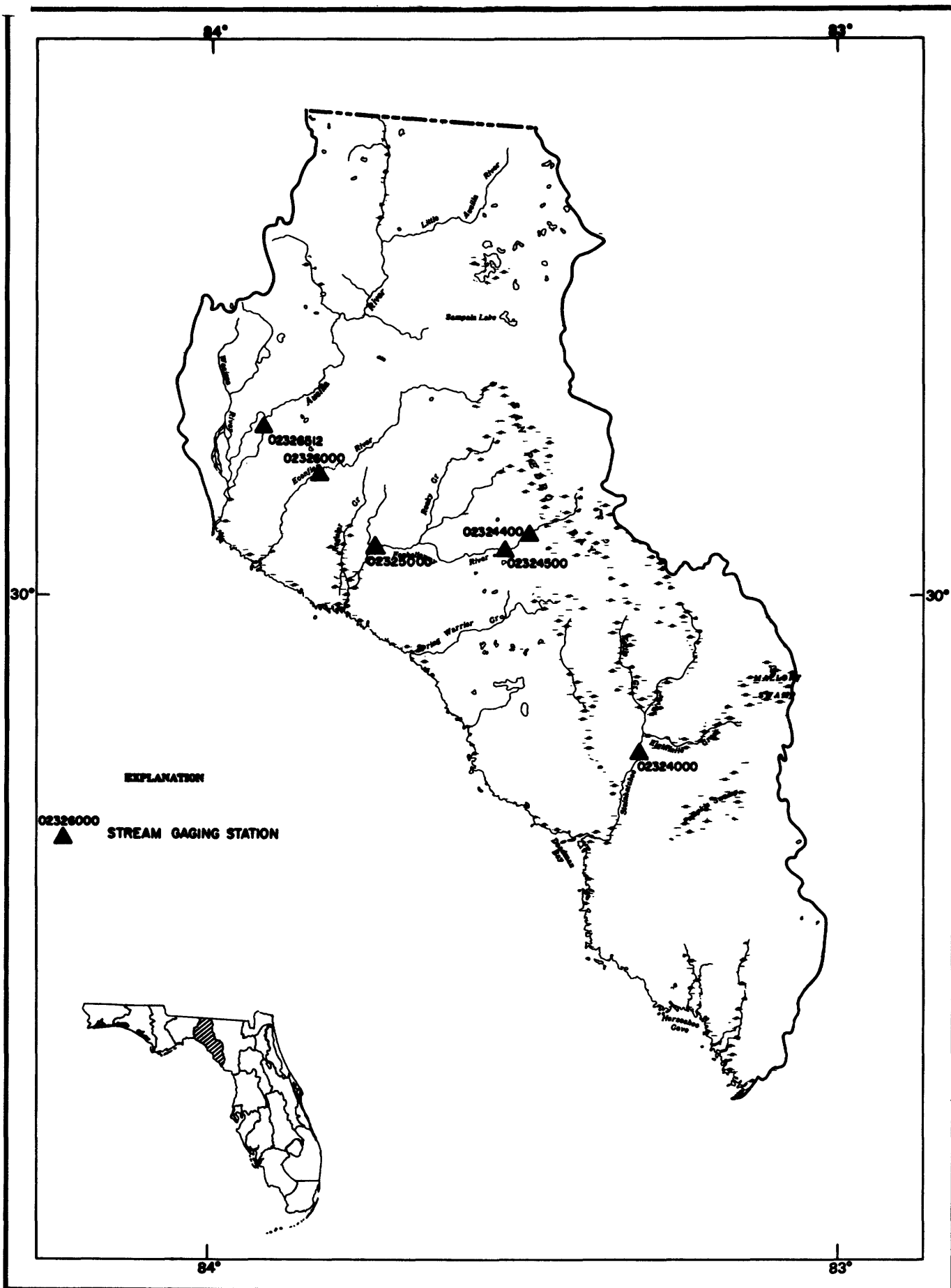


Figure 5. Location of stream gaging stations in the coastal area between the Suwannee and Aucilla Rivers, and the Aucilla River basin.

STEINHATCHEE RIVER BASIN

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02324000 STEINHATCHEE RIVER NEAR CROSS CITY, FL
(National stream-quality accounting network station)

LOCATION.--Lat 29°47'11", long 83°19'18", in NE¼ sec.16, T.8 S., R.10 E., Taylor County, Hydrologic Unit 03110102, on right bank 0.7 mi (1.1 km) downstream from Atlantic Coast Line Railroad bridge, 0.7 mi (1.1 km) south of Clara, 13 mi (21 km) upstream from mouth, and 16 mi (26 km) northwest of Cross City.

DRAINAGE AREA.--350 mi² (907 km²), approximately. See REMARKS.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1950 to current year.

REVISED RECORDS.--WSP 1234: 1950. WSP 1724: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 7.84 ft (2.390 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for period of no gage-height record, Apr. 1 to May 3, which are poor. Below about 500 ft³/s (14.2 m³/s), all flow enters sinkhole 0.5 mi (0.8 km) downstream from gage. Above about 4,000 ft³/s (113 m³/s), discharge measurements are made along U.S. Highways 19, 98, and Alternate 27, measurements include all flow from about 3 mi (5 km) northwest to 5 mi (8 km) southwest of main channel, drainage area is increased by about 30 mi² (78 km²).

AVERAGE DISCHARGE.--32 years, 325 ft³/s (9.204 m³/s), 12.61 in/yr (320 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,600 ft³/s (498 m³/s) Sept. 13, 14, 1964, gage height, 18.90 ft (5.761 m); minimum, 2.5 ft³/s (0.071 m³/s) July 18, 1981; minimum gage height, 2.38 ft (0.725 m) July 29-31, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharges, 2,800 ft³/s (14.3 m³/s) estimated, Apr. 14; minimum discharge 5.5 ft³/s (0.156 m³/s) part or all of each day Oct. 21-24, gage height, 2.44 ft (0.744 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	28	43	60	420	244	283	1200	430	122	1070	1530	325		
2	25	42	111	500	233	263	1030	370	104	891	1430	293		
3	21	38	123	560	323	247	890	330	123	725	1350	263		
4	17	37	116	530	531	232	780	270	152	594	1240	239		
5	14	67	105	475	571	253	680	249	125	540	1140	213		
6	13	109	100	440	588	565	600	223	99	472	1050	200		
7	11	106	99	406	580	771	940	206	81	434	1100	205		
8	11	105	95	443	550	838	1100	193	69	409	1060	211		
9	9.4	106	90	436	516	878	1400	181	62	397	970	235		
10	9.4	120	83	407	483	881	1700	166	56	397	876	446		
11	8.9	178	79	380	445	835	2000	133	52	455	901	486		
12	9.4	183	75	355	445	757	2300	105	49	446	808	505		
13	8.9	173	80	399	731	670	2600	97	46	448	710	514		
14	7.8	168	79	644	715	588	2800	90	46	525	638	609		
15	7.3	166	170	717	698	518	2700	86	44	501	574	690		
16	6.9	158	254	731	668	461	2650	81	42	721	542	713		
17	6.4	149	246	720	702	414	2600	75	42	738	652	682		
18	6.4	133	230	678	676	371	2500	73	147	702	617	629		
19	6.0	120	205	625	631	333	2200	68	166	684	621	563		
20	6.0	111	190	569	586	300	1850	64	126	741	582	503		
21	6.0	99	175	518	537	272	1500	59	101	771	555	461		
22	5.5	91	165	477	488	319	1300	52	527	820	557	450		
23	5.5	85	150	445	443	700	1150	50	1220	841	542	422		
24	6.0	80	145	416	407	813	1000	53	1700	944	555	406		
25	6.4	74	135	382	375	1160	860	53	1660	981	535	397		
26	52	69	140	353	343	1340	740	67	1630	1040	514	397		
27	73	67	150	325	321	1470	650	92	1640	1010	490	367		
28	62	64	175	306	306	1500	570	120	1560	1180	470	325		
29	55	64	210	289	---	1530	520	106	1460	1480	486	283		
30	50	61	270	272	---	1500	470	97	1250	1540	425	251		
31	46	---	360	258	---	1390	---	111	---	1570	369	---		
TOTAL	600.2	3066	4665	14476	14136	22452	43280	4350	14501	24067	23889	12283		
MEAN	19.4	102	150	467	505	724	1443	140	483	776	771	409		
MAX	73	183	360	731	731	1530	2800	430	1700	1570	1530	713		
MIN	5.5	37	60	258	233	232	470	50	42	397	369	200		
CFSM	.06	.29	.43	1.33	1.44	2.07	4.12	.40	1.38	2.22	2.20	1.17		
IN.	.06	.33	.50	1.54	1.50	2.39	4.60	.46	1.54	2.56	2.54	1.31		
AC-FT	1190	6080	9250	28710	28040	44530	85850	8630	28760	47740	47380	24360		
CAL YR 1981	TOTAL	33277.3	MEAN	91.2	MAX	501	MIN	2.6	CFSM	.26	IN	3.54	AC-FT	66010
WTR YR 1982	TOTAL	181765.2	MEAN	498	MAX	2800	MIN	5.5	CFSM	1.42	IN	19.32	AC-FT	360500

STEINHATCHEE RIVER BASIN

02324000 STEINHATCHEE RIVER NEAR CROSS CITY, FL--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CaCO3)	HARD- NESS, NONCAR- BONATE (MG/L CaCO3)	CALCIUM DIS- SOLVED (MG/L AS Ca)
OCT 29...	0750	55	321	7.5	18.5	1.0	6.7	34	40	166	36	57
DEC 31...	1200	170	261	7.2	14.5	1.0	8.4	50	45	119	9	40
FEB 26...	1500	339	165	7.5	16.0	1.0	8.0	20	85	88	22	30
APR 29...	1040	481	115	6.9	19.0	1.0	6.3	<1	60	62	14	21
JUL 20...	0945	730	--	7.0	24.0	1.1	6.5	220	18	66	13	23
AUG 11...	1115	914	106	7.2	24.5	1.0	6.5	280	450	61	17	21

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L CaCO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
OCT 29...	5.7	5.1	6	.2	.3	130	8.0	20	8.9	.1	5.3
DEC 31...	4.7	5.4	9	.2	.1	110	13	9.0	9.4	<.1	6.5
FEB 26...	3.1	4.4	--	.2	<.1	66	4.0	5.0	8.9	<.1	4.5
APR 29...	2.4	4.0	--	.2	<.1	48	12	10	7.2	<.1	3.8
JUL 20...	2.2	2.9	--	.2	<.1	53	10	8.0	5.9	.1	3.8
AUG 11...	2.0	2.0	--	.1	<.1	44	5.4	7.0	5.2	<.1	3.9

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT 29...	223	181	.30	33.1	.08	.060	.08	.47	.050	.15	.040
DEC 31...	206	142	.28	94.6	.16	.060	.08	.33	.050	.15	<.010
FEB 26...	185	96	.25	169	.17	.060	.08	3.40	.080	.25	.040
APR 29...	147	78	.20	191	.19	.080	.10	1.00	.080	.25	.060
JUL 20...	169	78	.23	333	.27	.050	.06	.90	.070	.21	.050
AUG 11...	102	68	.14	252	.18	.070	.09	.90	.080	.25	.070

DATE	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDE RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
OCT 29...	.030	.09	1	0	1	<100	--	50	<1	<1	10
DEC 31...	.030	.09	1	1	0	<100	--	12	<1	<1	20
FEB 26...	.030	.09	--	--	--	--	--	--	--	--	--
APR 29...	.050	.15	2	1	1	100	80	21	1	<1	20
JUL 20...	.020	.06	--	--	--	--	--	--	--	--	--
AUG 11...	.060	.18	1	0	1	100	80	17	1	<1	10

02324000 STEINHATCHEE RIVER NEAR CROSS CITY, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	CHROMIUM, SUS- PENDE RECOV. (UG/L AS CR)	CHROMIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDE RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 29...	0	10	1	--	<1	5	4	1	340	90	250
DEC 31...	10	10	1	0	2	41	40	1	590	130	460
FEB 26...	--	--	--	--	--	--	--	--	--	--	--
APR 29...	10	10	<1	--	<1	3	--	<1	1100	160	940
JUL 20...	--	--	--	--	--	--	--	--	--	--	--
AUG 11...	0	10	4	0	4	4	2	2	1100	260	840

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGANESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGANESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)
OCT 29...	2	1	1	20	6	14	.1	.0	.1	<1	--
DEC 31...	<1	--	<1	30	9	21	<.1	--	<.1	2	--
FEB 26...	--	--	--	--	--	--	--	--	--	--	--
APR 29...	3	1	2	50	20	29	<.1	--	<.1	4	0
JUL 20...	--	--	--	--	--	--	--	--	--	--	--
AUG 11...	--	--	1	60	30	30	.1	--	<.1	4	1

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 29...	<1	<1	<1	<1	<1	<10	0	<10	5	.74	60
DEC 31...	<1	<1	<1	<1	<1	20	--	<4	3	1.4	33
FEB 26...	--	--	--	--	--	--	--	--	3	2.7	67
APR 29...	4	<1	<1	<1	<1	10	0	12	8	10	50
JUL 20...	--	--	--	--	--	--	--	--	8	16	25
AUG 11...	3	<1	<1	<1	<1	40	--	<4	4	9.9	50

FENHOLLOWAY RIVER BASIN

02324400 FENHOLLOWAY RIVER NEAR FOLEY, FL

LOCATION.--Lat 30°05'53", long 83°28'19", in NE¼ sec.36, T.4 S., R.8 E., Taylor County, Hydrologic Unit 03110102, near left bank at downstream side of bridge on U.S. Highway 27, 1.8 mi (2.9 km) upstream from small tributary, 4 mi (6 km) northeast of Foley, and 32 mi (51 km) upstream from mouth.

DRAINAGE AREA.--60 mi² (155 km²) approximately.

PERIOD OF RECORD.--February to August 1955 (discharge measurements only); September 1955 to current year.

REVISED RECORDS.--WSP 1905: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 53.59 ft (16.334 m) National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

REMARKS.--Records fair.

AVERAGE DISCHARGE.--27 years, 55.0 ft³/s (1.558 m³/s), 39,848 acre ft/yr (49.1 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,120 ft³/s (88.4 m³/s) Sept. 12, 1964, gage height, 15.21 ft (4.636 m); minimum, 0.54 ft³/s (0.015 m³/s) Nov. 1, 1968; minimum gage height, 0.50 ft (0.152 m) June 29, 30, July 1, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharges above a base of 300 ft³/s (8.50 m³/s) and maximum(*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
June 28	2100	301 8.52	8.86 27.00
July 28	2200	*733 20.8	12.14 3.700

Minimum discharge, 0.90 ft³/s (0.025 m³/s) part of each day Oct. 21-24, gage height, 0.68 ft (0.207 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	2.2	1.6	19	15	17	55	48	4.4	179	405	34
2	1.6	2.0	2.0	18	14	16	48	42	5.2	144	337	30
3	1.5	1.8	2.7	18	18	15	42	37	6.4	118	273	25
4	1.3	1.5	2.4	17	34	13	37	32	10	101	218	22
5	1.3	1.6	2.0	16	24	14	32	28	9.7	89	180	19
6	1.2	2.8	1.7	14	30	33	28	24	8.7	108	164	17
7	1.2	2.7	1.5	13	37	61	24	21	7.5	122	155	16
8	1.0	2.3	1.4	19	42	64	51	19	6.4	134	147	14
9	1.0	2.0	1.3	20	34	62	113	16	5.3	128	162	16
10	1.1	2.0	1.2	19	28	56	125	14	4.4	120	159	50
11	1.3	6.0	1.0	17	26	50	220	12	3.7	112	146	72
12	1.4	7.5	1.0	15	27	44	273	11	3.2	102	133	90
13	1.2	7.0	1.3	19	49	38	263	9.3	3.6	93	129	112
14	1.1	6.5	1.5	32	49	34	227	8.0	3.2	97	131	107
15	1.0	5.8	5.4	35	46	30	196	7.1	2.6	83	132	97
16	1.0	5.3	6.8	34	44	26	171	6.4	2.3	71	141	92
17	1.0	5.0	6.5	31	51	23	150	5.7	2.6	60	137	85
18	1.0	4.5	6.3	28	52	21	131	5.2	16	53	127	77
19	1.0	4.0	5.7	26	48	19	114	4.8	16	76	124	71
20	.95	3.6	5.3	24	43	17	98	5.0	12	131	118	67
21	.95	3.3	4.9	21	38	16	85	4.9	10	143	106	75
22	.95	2.9	4.7	20	34	15	73	4.3	118	151	103	83
23	.95	2.5	4.3	19	29	45	62	4.0	177	164	101	74
24	.95	2.4	4.1	19	26	59	53	3.7	224	195	97	66
25	1.0	3.0	4.0	17	23	83	47	3.4	245	227	90	59
26	2.3	2.7	4.3	15	21	86	55	3.5	284	208	80	54
27	4.8	2.5	4.3	14	20	82	70	4.3	262	175	70	50
28	3.7	2.2	4.1	14	19	73	68	4.5	272	393	61	45
29	3.2	2.0	3.9	14	---	70	62	5.0	277	684	52	40
30	2.8	1.8	4.5	14	---	67	54	4.4	222	580	47	36
31	2.5	---	8.5	14	---	60	---	4.3	---	487	39	---
TOTAL	48.05	101.4	110.2	615	921	1309	3027	401.8	2224.2	5528	4364	1695
MEAN	1.55	3.38	3.55	19.8	32.9	42.2	101	13.0	74.1	178	141	56.5
MAX	4.8	7.5	8.5	35	52	86	273	48	284	684	405	112
MIN	.95	1.5	1.0	13	14	13	24	3.4	2.3	53	39	14
CFSM	.03	.06	.06	.33	.55	.70	1.68	.22	1.24	2.97	2.35	.94
IN.	.03	.06	.07	.38	.57	.81	1.88	.25	1.38	3.43	2.71	1.05
AC-FT	95	201	219	1220	1830	2600	6000	797	4410	10960	8660	3360
CAL YR 1981	TOTAL	5670.67	MEAN 15.5	MAX 168	MIN .76	CFSM .26	IN 3.52	AC-FT 11250				
WTR YR 1982	TOTAL	20344.65	MEAN 55.7	MAX 684	MIN .95	CFSM .93	IN 12.61	AC-FT 40350				

02324500 FENHOLLOWAY RIVER AT FOLEY, FL

LOCATION.--Lat 30°03'55", long 83°34'29", in NE¼ sec.7, T.5 S., R.8 E., Taylor County, Hydrologic Unit 03110102, near center of span on downstream side of bridge of U.S. Highway 19, 1.6 mi (2.6 km) west of Foley, 2.4 mi (3.9 km) downstream from clarifier flume of the Buckeye Cellulose Corporation plant, 11.4 mi (18.3 km) upstream from Spring Creek, and 24.4 mi (39.3 km) upstream from mouth.

DRAINAGE AREA.--120 mi² (311 km²), approximately.

PERIOD OF RECORD.--September 1946 to current year.

REVISED RECORDS.--WSP 1905: Drainage area. WDR FL-77-4: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 24.85 ft (7.574 m) National Geodetic Vertical Datum of 1929. Prior to June 24, 1947, nonrecording gage and June 24, 1947 to Feb. 4, 1971, water-stage recorder, at site about 1.6 mi (2.6 km) upstream at datum 4.51 ft (1.375 m) higher.

REMARKS.--Records poor. Since Feb. 1, 1954, large ground-water withdrawals by cellulose plant upstream. Records include return flow from plant.

AVERAGE DISCHARGE.--36 years; 129 ft³/s (3.653 m³/s), 93,460 acre ft/yr (115 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,810 ft³/s (136 m³/s) Sept. 12, 1964, gage height, 18.52 ft (5.645 m) at former site and datum; no flow Jan. 1-5, 1971, caused by diversion of flow into lagoon; minimum discharge, 0.80 ft³/s (0.023 m³/s) Aug. 16, 1972; minimum gage height, 8.96 ft (2.731 m) July 11, 12, 1974, present site and datum.

EXTREMES FOR CURRENT YEAR.--Peak discharge above a base of 400 ft³/s (11.3 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)
Apr. 13	1800	449 12.7	13.35 4.069	July 29	0700	*828 23.4	14.44 4.401
June 28	0600	512 14.5	13.60 4.145				

Minimum discharge, 50 ft³/s (1.42 m³/s) Dec. 22, gage height, 9.60 ft (2.926 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	75	75	71	78	72	81	139	153	72	391	525	135		
2	73	75	80	73	74	80	130	136	70	335	475	130		
3	73	79	74	74	86	78	123	127	72	272	440	123		
4	72	75	73	73	78	77	114	117	70	239	405	121		
5	74	76	74	71	97	82	107	106	71	226	385	114		
6	73	77	75	71	107	93	101	100	70	232	355	113		
7	73	74	75	72	107	110	96	92	70	250	330	111		
8	73	72	75	81	101	128	131	90	69	266	290	110		
9	73	74	75	71	95	134	180	85	69	258	320	122		
10	74	79	75	69	92	132	235	82	69	242	305	143		
11	86	84	75	69	89	123	338	81	67	228	290	184		
12	74	77	75	67	97	117	401	79	66	217	270	222		
13	72	73	75	76	106	109	446	76	67	205	260	258		
14	72	72	75	73	115	103	439	73	67	208	245	228		
15	73	74	85	71	117	95	411	73	69	194	230	195		
16	71	75	80	72	114	91	378	73	67	181	245	183		
17	73	75	75	77	119	88	347	72	75	169	250	174		
18	74	76	70	79	124	83	309	72	85	162	245	165		
19	73	76	65	79	122	82	266	86	72	231	235	145		
20	71	72	60	79	118	83	234	82	69	278	230	148		
21	73	71	60	76	111	78	198	75	67	315	215	187		
22	72	69	51	74	102	87	180	72	161	323	205	219		
23	71	69	65	75	101	101	160	73	301	353	205	219		
24	73	72	70	75	94	130	146	73	391	401	190	198		
25	74	69	73	74	89	156	139	76	453	432	180	187		
26	103	70	73	72	83	177	136	77	474	411	180	183		
27	78	72	73	73	82	174	151	76	478	435	175	171		
28	76	72	73	71	81	167	172	75	485	616	165	148		
29	76	71	72	72	---	161	171	74	467	807	155	144		
30	73	72	72	72	---	155	163	74	439	733	150	136		
31	75	---	82	73	---	148	---	71	---	633	145	---		
TOTAL	2316	2217	2246	2282	2773	3503	6541	2671	5122	10243	8295	4916		
MEAN	74.7	73.9	72.5	73.6	99.0	113	218	86.2	171	330	268	164		
MAX	103	84	85	81	124	177	446	153	485	807	525	258		
MIN	71	69	51	67	72	77	96	71	66	162	145	110		
CFSM	.62	.62	.60	.61	.83	.94	1.82	.72	1.43	2.75	2.23	1.37		
IN.	.72	.69	.70	.71	.86	1.09	2.03	.83	1.59	3.18	2.57	1.52		
AC-FT	4590	4400	4450	4530	5500	6950	12970	5300	10160	20320	16450	9750		
CAL YR 1981	TOTAL	33493	MEAN	91.8	MAX	250	MIN	34	CFSM	.77	IN	10.38	AC-FT	66430
WTR YR 1982	TOTAL	53125	MEAN	146	MAX	807	MIN	51	CFSM	1.22	IN	16.47	AC-FT	105400

FENHOLLOWAY RIVER BASIN

02325000 FENHOLLOWAY RIVER NEAR PERRY, FL

LOCATION.--Lat 30°04'16", long 82°39'45", in SE¼ sec.6, T.5 S., R.7 E., Taylor County, Hydrologic Unit 03110102, near right bank on downstream side of bridge on State Highway 356, 1.0 mi (1.6 km) southwest of the community of Hampton Springs, 5.5 mi (8.8 km) southwest of Perry and 14 mi (22 km) upstream from mouth.

DRAINAGE AREA.--160 mi² (410 km²), approximately.

PERIOD OF RECORD.--August 1946 to June 1952 (discharge measurements only); August 1952 to October 1954 (gage heights and discharge measurements only); November 1964 to July 1977 (crest-stage and periodic discharge measurements only); August 1977 to current year.

REVISED RECORDS.--WSP 1905: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. August 13, 1946 to October 1954, nonrecording gage at same site at datum 5.00 ft (1.524 m) higher. November 1964 to July 1977, crest-stage gage at same site and datum.

REMARKS.--Records fair. Natural flow of stream affected by large ground-water withdrawals by cellulose plant about 10 mi (16 km) upstream. Records include return flow from plant.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,760 ft³/s (49.8 m³/s) Sept. 13, 1964, gage height, 24.39 ft (7.434 m); minimum measured, 37 ft³/s (1.05 m³/s) Feb. 16, 1951; minimum gage height, 9.86 ft (3.005 m) May 26, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,130 ft³/s (32.0 m³/s) July 31, gage height, 21.71 ft (6.617 m); minimum, 78 ft³/s (2.21 m³/s) June 16; minimum gage height, 12.43 (3.789 m) Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	118	130	127	145	138	149	215	208	107	416	1110	244		
2	116	130	130	137	137	147	207	195	107	363	1050	234		
3	115	131	129	137	152	146	200	182	104	316	959	226		
4	114	130	127	138	164	143	192	171	106	280	837	220		
5	115	129	128	137	163	147	184	161	103	257	725	214		
6	115	132	128	135	174	174	178	151	100	256	657	214		
7	113	129	126	136	175	184	171	145	97	260	620	209		
8	114	126	126	146	173	188	216	139	95	268	558	205		
9	114	125	125	143	169	194	309	134	93	288	494	212		
10	114	129	123	138	168	195	306	129	91	287	464	267		
11	136	138	125	136	164	192	447	124	90	275	459	282		
12	125	135	127	136	166	185	451	122	86	265	435	299		
13	122	130	130	139	187	179	461	117	85	258	412	358		
14	121	128	132	149	184	174	481	114	84	250	397	365		
15	121	127	135	143	186	169	470	110	84	248	460	337		
16	120	128	138	144	185	163	437	109	82	240	420	319		
17	120	129	138	146	189	160	394	108	83	230	387	299		
18	121	129	135	149	189	155	361	106	103	221	400	283		
19	121	128	132	150	190	151	330	109	92	238	388	269		
20	118	128	132	151	187	151	302	121	88	288	371	255		
21	119	124	130	147	183	148	273	114	85	292	361	320		
22	118	123	117	145	176	149	248	105	212	310	351	343		
23	118	121	115	143	171	181	228	104	355	334	341	329		
24	117	122	127	146	166	188	210	104	451	369	349	315		
25	121	123	130	142	162	217	198	103	489	412	349	299		
26	141	120	131	141	156	236	219	120	528	447	345	290		
27	138	122	130	139	151	239	217	123	526	450	325	277		
28	131	122	130	138	151	236	223	118	527	534	304	264		
29	130	123	130	137	---	234	223	115	511	735	286	251		
30	130	124	130	136	---	229	218	111	461	934	270	240		
31	129	---	133	137	---	222	---	110	---	1130	256	---		
TOTAL	3765	3815	3996	4386	4756	5625	8569	3982	6025	11451	15140	8239		
MEAN	121	127	129	141	170	181	286	128	201	369	488	275		
MAX	141	138	138	151	190	239	481	208	528	1130	1110	365		
MIN	113	120	115	135	137	143	171	103	82	221	256	205		
CFSM	.76	.79	.81	.88	1.06	1.13	1.79	.80	1.26	2.31	3.05	1.72		
IN.	.88	.89	.93	1.02	1.11	1.31	1.99	.93	1.40	2.66	3.52	1.92		
AC-FT	7470	7570	7930	8700	9430	11160	17000	7900	11950	22710	30030	16340		
CAL YR 1981	TOTAL	51490	MEAN	141	MAX	312	MIN	77	CFSM	.88	IN	11.97	AC-FT	102100
WTR YR 1982	TOTAL	79749	MEAN	218	MAX	1130	MIN	82	CFSM	1.36	IN	18.54	AC-FT	158200

02326000 ECONFINA RIVER NEAR PERRY, FL.

LOCATION.--Lat 30°10'14", long 83°49'26", in NE¼ sec.4, T.4 S., R.5 E., Taylor County, Hydrologic Unit 03110102, on right bank 10 ft (3.0 m) downstream from wooden bridge, 3.0 mi (4.8 km) downstream from Natural Well Branch, 14 mi (23 km) upstream from mouth, and 14.7 mi (23.7 km) northwest of Perry.

DRAINAGE AREA.--198 mi² (513 km²).

PERIOD OF RECORD.--February 1950 to current year.

REVISED RECORDS.--WSP 1905: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 14.35 ft (4.374 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--32 years, 136 ft³/s (3.852 m³/s), 9.33 in/yr (237 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,540 ft³/s (71.9 m³/s) Sept. 17, 1957, gage height, 12.78 ft (3.895 m); minimum, 2.3 ft³/s (0.065 m³/s) July 8, 1955; minimum gage height, 1.87 ft (0.570 m) Mar. 2,3, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 715 ft³/s (20.2 m³/s) Aug. 1, gage height, 10.41 ft (3.173 m); minimum, 22 ft³/s (0.62 m³/s) Oct. 24, gage height, 2.39 ft (0.728 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	37	32	121	162	173	166	121	41	401	709	183
2	40	36	33	143	158	161	153	113	42	378	685	162
3	38	34	35	188	177	151	141	103	43	355	655	145
4	35	32	38	229	242	140	129	93	53	330	618	128
5	32	35	41	247	273	134	120	83	55	310	579	115
6	30	40	41	247	311	164	112	75	59	295	535	106
7	27	47	41	239	332	185	104	68	53	306	494	104
8	26	60	40	237	336	188	117	63	45	294	467	99
9	25	65	39	234	332	188	209	59	40	282	441	94
10	25	61	38	224	329	191	236	56	37	270	406	109
11	25	60	37	217	322	192	325	52	35	257	373	125
12	30	61	35	211	311	187	382	49	36	250	345	143
13	38	62	36	220	317	176	411	46	35	239	331	187
14	37	62	38	259	314	164	429	43	34	233	353	268
15	34	59	45	280	307	152	429	41	33	233	393	323
16	31	56	56	295	307	141	413	39	32	224	408	352
17	28	54	67	314	324	131	389	37	53	240	407	368
18	27	50	75	321	333	122	364	37	142	222	397	375
19	25	48	77	319	328	116	339	37	146	216	377	373
20	25	45	77	311	319	111	313	39	135	222	355	367
21	24	43	76	299	304	105	286	40	121	228	335	380
22	23	41	74	283	284	101	262	38	283	258	341	384
23	23	39	70	268	263	112	235	36	481	302	334	367
24	23	39	68	258	244	128	209	35	562	370	319	348
25	23	37	66	245	226	180	190	34	624	388	310	329
26	26	36	65	232	209	201	179	38	617	414	314	310
27	29	35	66	216	196	204	168	43	571	429	290	287
28	39	33	66	201	185	201	154	44	512	467	264	263
29	47	33	67	186	---	196	140	45	467	594	246	240
30	45	32	71	174	---	188	130	44	433	661	225	218
31	40	---	89	164	---	177	---	43	---	705	204	---
TOTAL	962	1372	1699	7382	7745	4960	7234	1694	5820	10373	12510	7252
MEAN	31.0	45.7	54.8	238	277	160	241	54.6	194	335	404	242
MAX	47	65	89	321	336	204	429	121	624	705	709	384
MIN	23	32	32	121	158	101	104	34	32	216	204	94
CFSM	.16	.23	.28	1.20	1.40	.81	1.22	.28	.98	1.69	2.04	1.22
IN.	.18	.26	.32	1.39	1.46	.93	1.36	.32	1.09	1.95	2.35	1.36
AC-FT	1910	2720	3370	14640	15360	9840	14350	3360	11540	20570	24810	14380
CAL YR 1981	TOTAL	33620	MEAN	92.1	MAX 433	MIN 21	CFSM .47	IN 6.32	AC-FT	66690		
WTR YR 1982	TOTAL	69003	MEAN	189	MAX 709	MIN 23	CFSM .96	IN 12.96	AC-FT	136900		

AUCILLA RIVER BASIN

02326512 AUCILLA RIVER NEAR SCANLON, FL
(National stream-quality accounting network station)

LOCATION.--Lat 30°13'52", long 83°55'08", in SW¼ sec.10, T.3 S., R.4 E., Jefferson-Taylor Counties, Hydrologic Unit 03110103, near left bank, 3 mi (4.8 km) west of Cabbage Grove, 6.9 mi (11 km) north of Scanlon, 12 mi (19 km) southwest of Lamont and 14 mi (23 km) upstream from mouth.

DRAINAGE AREA.--805 mi² (2085 km²).

WATER-DISCHARGE RECORD

PERIOD OF RECORD.--March 1950 to November 1957, crest-stage partial-record station; May 1965, May 1967 (one discharge measurement made each water year); August 1976 to current year.

GAGE.--Nonrecording gage. Datum of gage is 3.14 ft (0.957 m) National Geodetic Vertical Datum of 1929, unadjusted. February 1950 to November 1957, crest-stage gage at same site at present datum. August 30, 1976 to April 24, 1982, water-stage recorder at same site and datum.

REMARKS.--Records good except those for period of June 26 to Sept. 30, which are fair; and those for period Apr. 25 to June 25, which are poor.

AVERAGE DISCHARGE.--6 years, 436.2 ft³/s (12.35 m³/s), 7.36 in/yr (187 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,600 ft³/s (102 m³/s) November 1957, gage height, 20.31 ft (6.190 m) present datum; minimum, 31 ft³/s (0.88 m³/s) Oct. 10, 1982, gage height, 2.85 ft (0.869 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of April 9, 1973, reached a stage of about 23.5 ft (7.16 m), from floodmarks, (discharge not determined).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 854 ft³/s (24.2 m³/s) Apr. 12-14, gage height, 9.27 ft (2.825 m); minimum, 31 ft³/s (0.88 m³/s) Oct. 10, gage height, 2.85 ft (0.869 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	42	39	134	294	516	464	403	160	577	595	193
2	35	41	47	139	309	485	448	359	166	500	580	171
3	35	40	45	142	413	464	434	303	168	435	562	150
4	34	39	48	165	555	448	413	258	176	388	534	139
5	34	42	48	184	605	436	389	237	207	362	492	131
6	33	42	46	184	612	470	418	223	215	348	454	125
7	33	41	46	183	594	541	407	207	199	331	434	117
8	32	42	45	221	571	557	426	199	176	319	426	109
9	32	42	43	221	547	563	561	192	160	322	418	97
10	31	42	42	217	562	560	637	184	151	348	398	90
11	36	45	41	209	574	545	804	176	142	376	388	111
12	41	46	40	203	563	523	852	168	151	403	406	165
13	43	46	39	224	620	498	854	160	142	418	425	198
14	43	47	40	327	659	474	853	151	133	413	451	210
15	42	45	51	348	694	459	826	142	125	389	516	211
16	40	45	55	358	724	444	779	142	115	368	561	210
17	39	45	57	360	773	433	729	133	192	376	524	209
18	38	45	55	354	796	425	676	133	426	429	487	205
19	37	43	54	338	817	408	623	133	430	435	475	198
20	36	41	52	321	810	398	577	142	411	399	460	196
21	35	41	51	305	794	386	541	151	373	378	442	211
22	35	41	50	289	765	398	508	142	529	368	426	240
23	35	40	48	276	733	458	474	133	742	367	403	211
24	35	40	47	280	700	467	463	125	821	427	382	182
25	39	40	46	276	664	572	460	125	827	431	364	175
26	47	39	45	260	623	603	475	142	795	464	338	173
27	47	39	45	246	586	566	480	160	726	431	306	173
28	48	39	48	237	550	534	484	168	673	496	260	168
29	47	38	55	229	---	522	458	176	638	660	225	151
30	46	38	60	230	---	510	430	171	614	679	224	127
31	43	---	100	253	---	486	---	168	---	641	210	---
TOTAL	1187	1256	1528	7713	17507	15149	16943	5706	10783	13278	13166	5046
MEAN	38.3	41.9	49.3	249	625	489	565	184	359	428	425	168
MAX	48	47	100	360	817	603	854	403	827	679	595	240
MIN	31	38	39	134	294	386	389	125	115	319	210	90
CFSM	.05	.05	.06	.31	.78	.61	.70	.23	.45	.53	.53	.21
IN.	.05	.06	.07	.36	.81	.70	.78	.26	.50	.61	.61	.23
AC-FT	2350	2490	3030	15300	34730	30050	33610	11320	21390	26340	26110	10010
CAL YR 1981	TOTAL	105631	MEAN 289	MAX 2000	MIN 31	CFSM .36	IN 4.88	AC-FT	209500			
WTR YR 1982	TOTAL	109262	MEAN 299	MAX 854	MIN 31	CFSM .37	IN 5.05	AC-FT	216700			

02326512 AUCILLA RIVER NEAR SCANLON, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
NOV 03...	1420	40	385	7.6	20.0	1.2	7.0	13	46	186	6	58
DEC 30...	1345	57	315	7.7	15.5	1.1	7.0	K7	16	147	0	45
MAR 18...	1200	422	84	7.0	22.0	1.4	6.4	13	16	37	9	11
APR 28...	1000	484	74	6.9	19.5	1.0	6.9	<1	100	35	11	10
JUN 25...	1410	827	49	--	24.0	1.3	5.6	3	60	33	14	9.9
SEP 03...	1500	148	157	7.9	26.0	1.3	5.5	40	120	81	15	25

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
NOV 03...	10	3.0	3	.1	.2	180	8.7	11	5.9	.2	5.3	205
DEC 30...	8.4	3.4	5	.1	.4	150	5.8	9.2	6.2	.1	6.3	191
MAR 18...	2.4	3.1	15	.2	.3	28	5.4	6.0	6.7	<.1	2.3	104
APR 28...	2.5	3.8	19	.3	.2	24	5.9	6.0	6.7	<.1	3.5	94
JUN 25...	1.9	2.9	16	.2	.3	19	--	7.0	4.6	<.1	3.9	100
SEP 03...	4.5	3.1	--	.2	<.1	66	1.6	6.0	5.5	.3	6.0	152

DATE	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
NOV 03...	202	.28	22.1	.04	.030	.04	.26	.060	.18	.050	.040
DEC 30...	170	.26	29.4	.05	.050	.06	.38	.110	.34	<.010	.090
MAR 18...	49	.14	118	.19	.070	.09	.96	.050	.15	.040	.030
APR 28...	48	.13	123	.15	.040	.05	.86	.050	.15	.030	.020
JUN 25...	42	.14	223	.24	.080	.10	.80	.060	.18	.040	.020
SEP 03...	91	.21	60.7	.10	.090	.12	.80	.080	.25	.040	.050

DATE	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDED RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDED RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
NOV 03...	.12	1	0	1	100	90	10	1	--	<1	10
DEC 30...	.28	1	1	0	<100	--	12	<1	--	<1	20
MAR 18...	.09	--	--	--	--	--	--	--	--	--	--
APR 28...	.06	2	1	1	100	70	26	1	0	1	20
JUN 25...	.06	--	--	--	--	--	--	--	--	--	--
SEP 03...	.15	1	0	1	<100	--	30	1	--	<1	20

AUCILLA RIVER BASIN

02326512 AUCILLA RIVER NEAR SCANLON, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	CHROMIUM, SUS- PENDE RECOV. (UG/L AS CR)	CHROMIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDE RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)
NOV 03...	0	10	1	--	<1	9	8	1	360	300	56
DEC 30...	10	10	1	0	3	9	8	1	660	170	490
MAR 18...	--	--	--	--	--	--	--	--	--	--	--
APR 28...	10	10	<1	--	<1	3	2	1	920	230	690
JUN 25...	--	--	--	--	--	--	--	--	--	--	--
SEP 03...	0	20	<1	--	<1	8	5	3	1200	420	780

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGANESE, SUS- PENDE RECOV- ERABLE (UG/L AS MN)	MANGANESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)
NOV 03...	<1	--	<1	30	10	16	<.1	--	<.1	6	--
DEC 30...	<1	--	<1	30	10	17	<.1	--	<.1	2	--
MAR 18...	--	--	--	--	--	--	--	--	--	--	--
APR 28...	3	2	1	50	20	28	<.1	--	<.1	6	0
JUN 25...	--	--	--	--	--	--	--	--	--	--	--
SEP 03...	2	1	1	50	6	44	.9	.1	.8	2	1

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. & FINER THAN .062 MM
NOV 03...	<1	<1	<1	<1	<1	50	--	<4	2	.22	50
DEC 30...	<1	<1	<1	<1	<1	20	9	11	5	.77	40
MAR 18...	--	--	--	--	--	--	--	--	4	4.6	50
APR 28...	6	<1	<1	<1	<1	40	30	15	6	7.8	33
JUN 25...	--	--	--	--	--	--	--	--	14	31	21
SEP 03...	1	<1	<1	<1	<1	10	--	<4	2	.80	50

OCHLOCKONEE RIVER BASIN

02326845 NORTHEAST DRAINAGE DITCH AT WEEMS ROAD AT TALLAHASSEE, FL

LOCATION.--Lat 30°27'19", long 84°13'21", in SW¼ sec.27, T.1 N., R.1 E., Leon County, Hydrologic Unit 0312001, on right bank, 10 ft (3) upstream from concrete weir on Weems Road, 3.6 mi (5.8 km) east of Florida Capitol Building at Tallahassee.

DRAINAGE AREA.--17.1 mi² (44.3 km²) of which 1.2 mi² (3.1 km²) is noncontributing.

PERIOD OF RECORD.--August 1979 to current year.

GAGE.--Water-stage recorder and concrete weir. Datum of gage is 45.316 ft (13.812 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 784 ft³/s (22.2 m³/s) Feb. 11, 1981, gage height, 4.96 ft (1.512 m), from rating curve extended above 296 ft³/s (8.38 m³/s) on basis of flow-over-road measurement of peak flow; no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 412 ft³/s (11.7 m³/s) Jul. 30, gage height, 4.03 ft (1.228 m); no flow many days during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	.34	.92	.00	7.5	2.5	3.9	.78	.00	7.3	5.2	22	.50		
2	.25	.92	1.1	1.1	.81	3.3	.92	.00	2.2	5.2	16	.50		
3	.17	.92	.50	.80	41	2.2	.89	.00	1.1	6.0	11	.52		
4	.17	1.1	.08	4.0	9.6	1.7	1.4	.00	1.4	6.7	11	.56		
5	.19	1.4	.00	1.2	6.0	29	3.1	.00	1.3	12	9.5	.68		
6	.17	1.4	.00	.56	2.5	19	2.0	.00	1.5	33	7.9	.59		
7	.20	.75	.00	2.2	1.8	16	1.8	.00	1.9	17	18	.40		
8	.29	.08	.00	11	1.8	3.9	25	.25	1.9	8.5	8.9	.40		
9	.27	.00	.00	1.7	35	2.5	15	.00	2.1	7.5	5.0	14		
10	2.9	6.8	.00	1.8	16	2.0	16	.00	1.6	5.9	3.6	11		
11	22	22	.00	1.1	6.7	1.6	22	.00	.97	8.3	3.7	16		
12	7.1	1.1	2.4	1.2	20	1.4	5.6	.00	.85	7.6	37	8.7		
13	4.7	.30	1.1	8.3	16	.96	1.9	.00	.74	6.7	18	.40		
14	4.4	.17	2.0	20	7.2	1.1	1.5	.00	.54	35	2.4	.22		
15	4.4	.08	9.0	5.0	4.6	1.3	1.0	.00	.54	24	1.8	.25		
16	4.4	.00	.93	3.5	5.9	1.4	.92	.00	.75	25	1.8	.20		
17	4.6	.00	.50	3.5	21	1.6	1.2	.00	60	18	2.0	.17		
18	4.7	.00	.40	2.0	6.2	2.4	.97	.00	66	25	2.4	2.7		
19	4.6	.00	.30	1.6	4.7	3.6	.64	.00	8.4	20	2.3	27		
20	4.4	.50	.17	1.4	4.1	2.7	1.4	.00	4.4	4.7	6.7	50		
21	1.6	.08	.17	1.2	4.1	2.0	.60	.00	3.5	3.6	13	20		
22	4.2	.00	.00	1.1	4.2	1.7	.60	.00	7.4	9.5	3.9	8.4		
23	11	.00	.50	1.7	4.4	2.2	.30	.00	6.8	16	2.3	5.2		
24	10	.00	.19	3.3	4.0	30	.40	.00	3.1	20	1.8	3.0		
25	4.8	.00	.02	1.1	3.9	11	.30	3.2	125	27	.56	3.5		
26	24	.00	.00	1.0	3.9	16	.75	2.7	36	23	.60	3.1		
27	4.4	.00	.00	.84	3.9	2.7	.08	1.4	18	7.3	.61	1.8		
28	1.3	.00	.00	.96	4.4	1.7	.08	1.1	8.4	69	.96	1.7		
29	1.1	.00	.40	.96	---	1.4	.00	1.5	7.3	201	1.0	2.5		
30	.93	.00	5.3	.97	---	.99	.00	1.4	6.6	245	.76	2.4		
31	.92	---	26	2.1	---	.92	---	1.4	---	79	.52	---		
TOTAL	134.50	38.52	51.06	94.69	246.21	172.17	107.13	12.95	387.59	981.7	217.01	186.39		
MEAN	4.34	1.28	1.65	3.05	8.79	5.55	3.57	.42	12.9	31.7	7.00	6.21		
MAX	24	22	26	20	41	30	25	3.2	125	245	37	50		
MIN	.17	.00	.00	.56	.81	.92	.00	.00	.54	3.6	.52	.17		
CFSM	.25	.08	.10	.18	.51	.33	.21	.03	.75	1.85	.41	.36		
IN.	.29	.08	.11	.21	.54	.37	.23	.03	.84	2.14	.47	.41		
AC-FT	267	76	101	188	488	341	212	26	769	1950	430	370		
CAL YR 1981	TOTAL	1812.08	MEAN	4.96	MAX	356	MIN	.00	CFSM	.29	IN	3.94	AC-FT	3590
WTR YR 1982	TOTAL	2629.92	MEAN	7.21	MAX	245	MIN	.00	CFSM	.42	IN	5.72	AC-FT	5220

02326900 ST. MARKS RIVER NEAR NEWPORT, FL
(National stream-quality accounting network station)

LOCATION.--Lat 30°16'00", long 84°09'00", in SE¼ sec.32, T.2 S., R.2 E., Wakulla County, Hydrologic Unit 03120001, on left bank 0.9 mi (1.4 km) downstream from Rhodes Springs, 6 mi (10 km) north of Newport, 11 mi (18 km) upstream from Wakulla River, and 14 mi (23 km) upstream from mouth.

DRAINAGE AREA.--535 mi² (1,386 km²) including 290 mi² (751 km²) of Lake Miccosukee, which contributes at high stages to the St. Marks River.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1956 to September 1976. October 1976 to September 1977 (gage heights only); October 1977 to current year.

REVISED RECORDS.--WSP 1905: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3.53 ft (1.076 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--26 years (water years 1957-76, 1978-82), 665 ft³/s, (18.83 m³/s) 481,800 acre-ft/yr, (594 hm³/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,750 ft³/s (135 m³/s) Apr. 7, 1973, gage height, 11.81 ft (3.600 m); minimum, 310 ft³/s (8.78 m³/s) Apr. 25, 1964, Oct. 4-6, 1968; minimum gage height, 4.20 ft (1.280 m) Mar. 17, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,710 ft³/s (48.4 m³/s) Jun. 18, gage height, 7.32 ft (2.231 m); minimum, 434 ft³/s (12.3 m³/s) Dec. 29, gage height, 4.98 ft (1.518 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	548	520	480	476	472	557	557	508	500	680	1300	700		
2	548	520	480	473	468	552	548	500	508	660	1300	690		
3	544	520	476	467	561	552	540	496	500	650	1230	685		
4	544	520	476	465	592	552	532	488	496	640	1120	680		
5	544	520	472	463	579	548	540	484	496	635	1030	675		
6	544	520	468	462	574	570	557	484	492	645	955	670		
7	544	516	464	461	574	583	540	488	484	645	928	665		
8	540	516	464	465	566	583	574	488	488	650	896	660		
9	540	512	464	463	566	574	630	488	484	670	917	670		
10	544	512	460	461	583	579	625	488	480	680	983	695		
11	540	512	456	460	574	579	705	484	484	685	988	725		
12	540	512	456	459	583	570	700	484	480	705	1030	740		
13	536	508	456	463	611	561	690	484	476	710	1090	760		
14	536	504	460	475	611	552	670	484	480	700	1050	760		
15	532	504	468	473	606	548	645	484	476	715	994	750		
16	536	504	464	470	616	540	616	484	480	785	966	730		
17	536	500	456	466	660	536	592	480	675	906	928	710		
18	536	496	453	464	655	532	574	480	1500	917	901	690		
19	516	496	449	462	635	528	561	488	1090	917	875	680		
20	528	496	445	460	630	524	552	484	944	923	850	680		
21	528	492	445	458	625	520	544	488	896	912	860	750		
22	532	488	445	456	611	528	532	484	901	865	840	745		
23	532	488	445	461	597	532	528	484	870	850	815	725		
24	528	488	441	456	597	566	524	484	810	845	795	715		
25	532	484	441	453	574	611	528	484	760	845	785	705		
26	544	480	441	452	574	616	548	488	735	845	770	690		
27	540	480	441	451	574	601	544	488	720	835	755	675		
28	532	480	438	451	566	592	536	488	715	917	745	655		
29	532	476	438	454	---	583	524	484	710	1100	725	640		
30	528	476	441	469	---	579	516	504	700	1220	715	630		
31	524	---	468	473	---	566	---	496	---	1280	705	---		
TOTAL	16628	15040	14151	14342	16434	17414	17272	15120	19830	25032	28841	20945		
MEAN	536	501	456	463	587	562	576	488	661	807	930	698		
MAX	548	520	480	476	660	616	705	508	1500	1280	1300	760		
MIN	516	476	438	451	468	520	516	480	476	635	705	630		
CFSM	1.00	.94	.85	.87	1.10	1.05	1.08	.91	1.24	1.51	1.74	1.31		
IN.	1.16	1.05	.98	1.00	1.14	1.21	1.20	1.05	1.38	1.74	2.01	1.46		
AC-FT	32980	29830	28070	28450	32600	34540	34260	29990	39330	49650	57210	41540		
CAL YR 1981	TOTAL	195887	MEAN	537	MAX	1440	MIN	399	CFSM	1.00	IN	13.62	AC-FT	388500
WTR YR 1982	TOTAL	221049	MEAN	606	MAX	1500	MIN	438	CFSM	1.13	IN	15.37	AC-FT	438500

ST. MARKS RIVER BASIN

02326900 ST. MARKS RIVER NEAR NEWPORT, FL--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

		STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
NOV 03...	1750	561	281	6.8	22.5	1.1	7.7	28	>200	129	9	39
DEC 18...	1400	492	275	8.0	19.0	.80	9.3	K8	>20	129	0	39
FEB 24...	1210	620	--	8.0	19.5	1.3	7.4	K11	71	113	13	35
MAY 05...	1245	500	264	8.4	22.0	1.1	10.7	40	170	132	12	41
JUN 03...	1300	503	270	8.0	22.5	2.0	7.0	20	120	127	4	38
AUG 20...	1330	845	248	8.0	23.5	1.5	5.1	13	720	113	12	35
DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
NOV 03...	7.7	3.5	6	.1	.2	120	37	8.9	5.3	.2	13	146
DEC 18...	7.7	3.5	6	.1	.4	130	2.5	9.7	5.5	.2	12	161
FEB 24...	6.3	3.6	6	.2	.4	100	1.9	6.7	5.5	.2	11	153
MAY 05...	7.1	3.8	6	.2	.4	120	.9	8.0	5.4	.2	11	139
JUN 03...	7.8	3.6	6	.1	.2	123	2.4	10	5.4	.1	13	157
AUG 20...	6.2	2.9	5	.1	.3	101	1.9	7.0	5.5	.2	12	148
DATE	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	
NOV 03...	150	.20	221	.14	.020	.03	.24	.050	.15	.050	.040	
DEC 18...	156	.22	214	.18	.070	.09	.26	.050	.15	.040	.050	
FEB 24...	129	.21	256	.13	.050	.06	.19	.080	.25	.050	.040	
MAY 05...	149	.19	188	<.10	.050	.06	<.10	.050	.15	.040	.030	
JUN 03...	152	.21	213	.11	.040	.05	.40	.060	.18	.040	.030	
AUG 20...	130	.20	338	<.10	.030	.04	.40	.050	.15	.040	.030	
DATE	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDE RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	
NOV 03...	.12	1	1	0	100	90	10	<1	--	<1	10	
DEC 18...	.15	1	1	0	<100	--	12	<1	--	<1	20	
FEB 24...	.12	--	--	--	--	--	--	--	--	--	--	
MAY 05...	.09	2	1	1	<100	--	27	<1	--	<1	20	
JUN 03...	.09	--	--	--	--	--	--	--	--	--	--	
AUG 20...	.09	1	0	1	<100	--	10	2	0	2	10	

02326900 ST. MARKS RIVER NEAR NEWPORT, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	CHROMIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHROMIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDED RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)
NOV 03...	0	10	1	0	1	5	--	<1	90	80	13
DEC 18...	10	10	<1	--	1	6	4	2	110	100	7
FEB 24...	--	--	--	--	--	--	--	--	--	--	--
MAY 05...	--	<10	<1	--	<1	8	6	2	70	20	51
JUN 03...	--	--	--	--	--	--	--	--	--	--	--
AUG 20...	0	10	2	1	1	5	4	1	270	90	180

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGANESE, SUS- PENDED RECOV- ERABLE (UG/L AS MN)	MANGANESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)
NOV 03...	2	--	<1	<10	--	3	<.1	--	<.1	3	--
DEC 18...	<1	--	<1	20	20	3	<.1	--	<.1	<1	--
FEB 24...	--	--	--	--	--	--	--	--	--	--	--
MAY 05...	5	4	1	20	20	3	<.1	--	<.1	4	0
JUN 03...	--	--	--	--	--	--	--	--	--	--	--
AUG 20...	4	3	1	10	1	9	.3	.1	.2	7	5

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 03...	<1	<1	<1	<1	<1	40	--	<4	4	6.1	50
DEC 18...	<1	<1	<1	<1	<1	40	30	9	5	6.6	40
FEB 24...	--	--	--	--	--	--	--	--	4	6.7	75
MAY 05...	4	<1	<1	<1	<1	10	0	13	5	6.8	60
JUN 03...	--	--	--	--	--	--	--	--	4	5.4	50
AUG 20...	2	<1	<1	<1	<1	20	--	<4	4	9.1	50

ST MARKS RIVER BASIN

02327000 WAKULLA SPRING NEAR CRAWFORDVILLE, FL

LOCATION.--Lat 30°14'05", long 84°18'05", in SE¼ sec.11, T.3 S., R.1 W., Wakulla County, Hydrologic Unit 03120001, near right bank on dock at head of spring, 6.0 mi (9.7 km) northeast of Crawfordville, and 14 mi (23 km) south of Tallahassee.

PERIOD OF RECORD.--

DISCHARGE: 1907, 1917, 1929, 1930 (one discharge measurement each water year); February 1931 to June 1932; July 1941 to current year (gage heights and discharge measurements).
WATER TEMPERATURE: October 1975 to July 1978. Records of miscellaneous temperature observations prior to October 1975, are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is 4.20 ft (1.280 m) National Geodetic Vertical Datum of 1929. Aug. 12, 1930 to July 16, 1931, nonrecording gage near present site at datum 1.00 ft (0.305 m) higher. July 17, 1931 to July 27, 1932, water-stage recorder at site 600 ft (183 m) downstream at present datum. July 16, 1941 to June 5, 1961, nonrecording gage at site 600 ft (183 m) downstream at present datum. Auxiliary nonrecording gage at Wakulla River (02327022), near right bank on upstream side of bridge on U.S. Highway 319. Datum of gage is 2.42 ft (0.738 m) National Geodetic Vertical Datum. Feb. 13, 1977 to Oct. 6, 1942, nonrecording gage, at same site and datum. Auxiliary gage McBrides Slough (02327020) nonrecording gage. Datum of gage is 5.56 ft (1.695 m) National Geodetic Vertical Datum of 1929. Prior to Mar. 12, 1953, nonrecording gage at same site at different datums.

REMARKS.--Discharge measurements of Wakulla River (02327022) made at bridge 3.0 mi (4.8 km) downstream from spring, discharge measurements of inflow made at two culverts near head of spring and at McBrides Slough (02327020), 1.5 mi (2.4 km) downstream from spring. The discharge of the spring is the difference between that of the river and the combined inflow at head of spring and at slough. Prior to 1941, discharge measurements of inflow not made. Slight tide effect at station. No discharge measurement or water temperature data collected during the 1979 water year.

AVERAGE DISCHARGE.--294 measurements, 387 ft³/s, 250 mgd (10.96 m³/s).

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum measured, 1,910 ft³/s (54.1 m³/s), Apr. 11, 1973; maximum gage height observed, 5.74 ft (1.750 m), Apr. 5, 1973; minimum measured, 25.2 ft³/s (0.71 m³/s), June 18, 1931; minimum gage height observed, 1.05 ft (0.320 m), Apr. 14, 1932.
WATER TEMPERATURE: (Water years 1976-80); Maximum observed, 22.0°C June 15, 1977; minimum observed, 20.5°C Oct. 1, Dec. 4, Feb. 4, 1976.
DISCHARGE AT MCBRIDES SLOUGH: (1941-82): Maximum measured, 291 ft³/s (8.24 m³/s), Oct. 8, 1957; no flow observed, 1954-55, 1968-69, 1971.

DISCHARGE MEASUREMENTS AND WATER TEMPERATURES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	INSTANTANEOUS DISCHARGE (FT ³ /s) WAKULLA RIVER	INSTANTANEOUS DISCHARGE (FT ³ /s) MCBRIDES SLOUGH AND OTHER SURFACE OUTFLOW	DIFFERENCE OR SPRING FLOW	TEMPERATURE WAKULLA SPRINGS (DEG. C)
Dec. 10	1120	442	9.3	433	12.0

02327017 MUNSON SLOUGH AT CAPITAL CIRCLE AT TALLAHASSEE, FL

LOCATION.--Lat 30°23'14", Long 84°18'48", in NE¼ sec.22, T.1 S., R.1 W., Leon County, Hydrologic Unit 03120001, on left downstream side of bridge on Capital Circle southwest (State Highway 263), 0.7 mi (1.1 km) southeast of intersection of Capital Circle southwest and Springhill Road, 0.7 mi (1.1 km) from Tallahassee city boundary, and 1.2 mi (1.9 km) northwest of Lakeside Community.

DRAINAGE AREA.--52.9 mi² (137.0 km²) of which about 4 mi² (10 km²) is noncontributing.

PERIOD OF RECORD.--December 1979 to current year.

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

REMARKS.--Records good except those below 20 ft's (0.57 m's), which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 741 ft³/s (21.0 m³/s) Feb. 11, 1981, gage height, 33.10 ft (10.089 m); minimum daily discharge, 3.3 ft³/s (0.093 m³/s) Dec. 21, Dec. 28-30, 1980, Jan. 2, and Jan. 26, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 489 ft³/s (13.8 m³/s) Jun. 17, gage height, 31.70 ft (9.662 m); minimum daily discharge, 4.4 ft³/s (0.125 m³/s) May 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	12	11	29	62	17	13	15	6.8	169	46	112	13		
2	10	11	44	29	13	12	14	7.4	62	41	90	12		
3	10	11	18	19	145	13	16	6.8	37	39	68	12		
4	13	11	12	36	84	12	12	7.5	23	40	60	13		
5	11	13	11	18	41	96	12	6.0	16	79	50	13		
6	12	12	10	13	27	86	12	6.4	13	167	40	12		
7	13	12	14	32	22	65	12	5.9	9.5	132	35	10		
8	13	12	11	49	18	32	82	44	8.9	72	41	10		
9	12	11	12	19	102	23	47	13	8.1	59	31	32		
10	35	53	13	16	94	19	56	10	7.4	70	24	48		
11	33	76	12	13	44	16	70	6.2	7.7	101	89	55		
12	15	25	26	10	76	16	31	5.0	8.6	104	97	62		
13	12	18	19	41	80	15	24	5.2	7.7	72	102	29		
14	11	16	70	87	40	14	21	4.5	9.3	97	53	20		
15	12	14	86	32	30	13	17	4.5	8.9	85	37	14		
16	11	15	26	27	42	14	14	5.0	13	73	31	14		
17	12	15	16	22	97	13	13	4.4	222	76	25	13		
18	13	13	15	18	34	12	12	11	279	58	26	9.0		
19	13	13	11	14	26	13	10	9.5	115	68	23	93		
20	12	14	10	13	21	13	20	7.4	77	52	25	72		
21	12	9.6	12	12	17	13	12	6.3	47	42	36	65		
22	13	12	13	11	15	16	9.0	5.3	53	76	25	35		
23	25	12	16	20	14	16	9.0	8.8	40	71	20	24		
24	18	12	15	20	13	107	8.2	4.8	25	109	20	19		
25	25	12	17	13	14	58	34	17	214	132	19	18		
26	50	11	15	13	13	73	25	15	133	96	15	16		
27	21	11	15	11	14	30	15	11	89	58	14	16		
28	16	11	12	10	13	23	10	7.5	65	100	14	17		
29	13	11	29	11	---	20	10	6.2	67	231	16	17		
30	11	12	45	9.5	---	18	7.5	12	56	239	14	15		
31	12	---	115	20	---	17	---	43	---	210	13	---		
TOTAL	501	489.6	769	720.5	1166	901	649.7	313.4	1891.1	2895	1265	798.0		
MEAN	16.2	16.3	24.8	23.2	41.6	29.1	21.7	10.1	63.0	93.4	40.8	26.6		
MAX	50	76	115	87	145	107	82	44	279	239	112	93		
MIN	10	9.6	10	9.5	13	12	7.5	4.4	7.4	39	13	9.0		
CFSM	.31	.31	.47	.44	.79	.55	.41	.19	1.19	1.77	.77	.50		
IN.	.35	.34	.54	.51	.82	.63	.46	.22	1.33	2.04	.89	.56		
AC-FT	994	971	1530	1430	2310	1790	1290	622	3750	5740	2510	1580		
CAL YR 1981	TOTAL	8879.2	MEAN	24.3	MAX	590	MIN	3.3	CFSM	.46	IN	6.24	AC-FT	17610
WTR YR 1982	TOTAL	12359.3	MEAN	33.9	MAX	279	MIN	4.4	CFSM	.64	IN	8.69	AC-FT	24510

OCHLOCKONEE RIVER BASIN

02327100 SOPCHOPPY RIVER NEAR SOPCHOPPY, FL
(Hydrologic bench-mark station)

LOCATION.--Lat 30°07'45", long 84°29'40" in NW¼ sec.24, T.4 S., R.3 W., Wakulla County, Hydrologic Unit 03120003, Apalachicola National Forest, near left bank on downstream side of bridge on U.S. Forest Road 346A, 4.7 mi (7.6 km) north of Sopchoppy, 5.2 mi (8.4 km) upstream from Duval Branch, and 24 mi (39 km) upstream from mouth.

DRAINAGE AREA.--102 mi² (264.2 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Water years 1961-64 (annual maximum); June 1964 to current year.

REVISED RECORDS.--WSP 1905, WDR FL-76-4: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Jan. 27, 1961 to June 3, 1964, nonrecording gage and crest-stage gage at same site at datum 9.63 ft (2.935 m) higher.

REMARKS.--Records good.

AVERAGE DISCHARGE.--18 years (water years 1965-82), 194 ft³/s (5.494 m³/s), 25.83 in/yr (656 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,260 ft³/s (149 m³/s) July 31, 1975, gage height, 34.47 ft (10.506 m), from rating curve extended above 3,500 ft³/s (99.1 m³/s) by velocity-area study; minimum, 1.0 ft³/s (0.028 m³/s) June 29 to July 3, 1968; minimum gage height, 7.94 ft (2.420 m) June 4, 5, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,200 ft³/s (34.0 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)
Apr. 11	1500	1280	36.2	July 31	0300	1370	38.8
June 20	0500	*1820	51.5	Sept. 12	1500	1460	41.3
			21.69 6.611				22.41 6.831
			25.10 7.650				23.16 7.059

Minimum discharge, 2.0 ft³/s (0.057 m³/s) part of each day, Oct. 21-23, gage height, 8.18 ft (2.493 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	2.8	4.6	236	69	102	274	101	172	634	1140	121
2	4.9	2.8	6.4	267	72	89	222	81	175	488	879	87
3	4.3	2.7	9.2	268	190	77	179	65	148	419	652	62
4	3.9	2.7	8.3	257	447	66	146	51	112	592	480	46
5	3.6	2.6	7.6	255	497	85	118	40	85	528	355	41
6	3.1	2.4	7.4	224	490	296	147	31	62	439	269	38
7	3.0	2.4	7.0	198	425	407	121	24	45	514	225	31
8	2.8	2.3	6.4	219	359	434	287	22	31	567	206	26
9	2.8	2.3	5.8	218	310	379	1060	22	23	760	169	27
10	2.8	3.0	5.3	196	308	321	1190	19	17	792	135	194
11	2.8	5.1	5.0	172	299	269	1260	16	13	689	126	896
12	2.6	4.6	5.0	149	290	223	1160	13	10	703	212	1430
13	2.5	4.3	5.9	155	378	186	879	11	8.4	705	227	1260
14	2.4	4.0	8.5	237	391	155	651	9.5	6.9	598	227	842
15	2.3	3.6	24	276	370	129	492	8.2	5.8	512	210	580
16	2.2	3.4	30	280	404	109	374	7.2	5.1	411	233	427
17	2.1	3.6	29	265	558	91	297	6.6	158	382	206	322
18	2.1	5.0	31	240	610	76	266	9.5	1220	321	170	242
19	2.1	5.7	28	216	560	63	247	17	1620	271	132	247
20	2.2	6.1	25	195	461	53	209	17	1760	299	103	295
21	2.1	6.0	23	173	379	44	168	17	1380	288	106	394
22	2.1	5.9	21	154	315	38	134	16	1150	297	147	475
23	2.2	5.5	20	138	260	60	102	17	1080	281	219	424
24	2.9	5.3	19	132	212	144	78	13	1220	395	395	323
25	3.2	5.1	18	120	175	455	65	11	1020	574	461	239
26	3.9	4.9	18	106	145	585	178	12	894	579	449	180
27	5.1	4.9	17	92	125	619	213	28	797	440	373	135
28	4.4	4.7	17	80	114	560	199	24	791	466	301	101
29	3.8	4.7	17	69	---	473	164	22	821	1080	241	74
30	3.3	4.5	23	60	---	395	129	59	766	1300	207	54
31	3.1	---	91	55	---	330	---	154	---	1330	165	---
TOTAL	96.4	122.9	543.4	5702	9213	7313	11009	944.0	15596.2	17654	9414	9613
MEAN	3.11	4.10	17.5	184	329	236	367	30.5	520	569	304	320
MAX	5.8	6.1	91	280	610	619	1260	154	1760	1330	1140	1430
MIN	2.1	2.3	4.6	55	69	38	65	6.6	5.1	271	100	26
CFSM	.03	.04	.17	1.80	3.23	2.31	3.60	.30	5.10	5.58	2.98	3.14
IN.	.04	.04	.20	2.08	3.36	2.67	4.02	.34	5.69	6.44	3.43	3.51
AC-FT	191	244	1080	11310	18270	14510	21840	1870	30940	35020	18670	19070

CAL YR 1981 TOTAL 35407.7 MEAN 97.0 MAX 3070 MIN 1.4 CFSM .95 IN 12.91 AC-FT 70230
WTR YR 1982 TOTAL 87220.9 MEAN 239 MAX 1760 MIN 2.1 CFSM 2.34 IN 31.81 AC-FT 173000

02327100 SOPCHOPPY RIVER NEAR SOPCHOPPY, FL--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	ACIDITY (MG/L AS H)	ACIDITY (MG/L AS CACO3)
OCT 30...	1750	3.2	198	7.8	19.0	8.0	110	56	91	4	--	--
DEC 21...	1820	23	54	5.6	5.0	11.5	40	55	22	14	--	--
FEB 03...	1330	199	52	4.0	13.5	9.3	K80	43	6	--	.6	30
MAR 15...	1430	127	46	4.3	18.5	8.4	K12	K6	6	--	.5	25
MAY 03...	1755	61	33	4.8	21.0	8.3	K6	K110	9	7	--	--
28...	1735	19	45	6.4	26.5	7.0	41	42	20	7	--	--
JUN 25...	1940	960	52	4.1	23.0	5.4	K7	>200	4	--	--	--
JUL 19...	1445	245	46	4.1	24.0	6.5	K7	42	5	--	.5	25
AUG 10...	1715	119	29	4.2	25.0	6.5	15	430	8	--	.4	20
27...	1315	371	29	4.0	25.0	5.8	11	36	4	--	.6	30
SEP 10...	1340	119	33	4.7	23.0	7.2	>600	>1000	0	8	--	--
DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)
OCT 30...	31	3.2	2.3	5	.1	.3	87	2.7	3.9	3.9	.1	6.5
DEC 21...	7.0	1.2	2.4	19	.2	.1	8.0	39	8.0	5.1	<.1	7.6
FEB 03...	1.7	.4	2.0	43	.4	.1	<1.0	--	7.4	4.6	<.1	4.4
MAR 15...	1.9	.4	2.0	--	.4	<.1	<1.0	--	6.8	5.1	<.1	4.3
MAY 03...	2.9	.5	2.3	33	.3	.7	2.0	61	8.0	5.0	<.1	4.0
28...	6.8	.8	2.0	--	.2	<.1	13	10	8.0	--	<.1	4.4
JUN 25...	1.1	.3	2.1	--	.5	<.1	<1.0	--	9.0	4.1	<.1	2.9
JUL 19...	1.5	.3	2.0	--	.4	<.1	<1.0	--	10	4.8	<.1	4.0
AUG 10...	2.4	.4	1.6	--	.3	<.1	<1.0	--	7.0	4.6	<.1	4.5
27...	1.0	.3	1.8	--	.4	<.1	<1.0	--	9.0	4.6	<.1	3.7
SEP 10...	3.0	.5	1.5	--	.2	<.1	2.0	77	7.0	3.9	<.1	5.1
DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)
OCT 30...	111	104	.15	.96	.05	.12	.040	.040	.05	.24	.52	.36
DEC 21...	95	36	.13	5.9	.17	.09	.080	.050	.06	.67	.79	.65
FEB 03...	70	--	.10	37.6	.09	.12	.040	.060	.08	.32	.51	.33
MAR 15...	83	21	.11	28.5	.09	.07	.070	.070	.09	.64	.74	.60
MAY 03...	82	25	.11	13.5	<.10	<.10	.070	.060	.08	1.7	--	.61
28...	74	--	.10	3.8	<.10	.10	.090	.080	.10	.51	.80	.62
JUN 25...	88	--	.12	228	<.10	<.10	.090	.100	.13	.81	--	.50
JUL 19...	100	--	.14	66.2	<.10	.10	.110	.110	.14	.69	.40	.19
AUG 10...	53	--	.07	17.0	.10	.11	.060	.100	.13	.74	.61	.40
27...	84	--	.11	84.1	.10	.10	.070	.060	.08	1.2	.90	.74
SEP 10...	63	22	.09	20.2	.10	<.10	.080	.080	.10	1.1	--	.62

OCHLOCKONEE RIVER BASIN

02327100 SOPCHOPPY RIVER NEAR SOPCHOPPY, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDED RECOV- ERABLE (UG/L AS BA)
OCT 30...	.28	.00	.40	.33	.060	.18	.050	1	1	0	100	90
DEC 21...	.75	.05	.70	.92	.050	.15	.020	--	--	--	--	--
FEB 03...	.36	.00	.39	.45	.030	.09	<.010	--	--	--	--	--
MAR 15...	.71	.04	.67	.80	.020	.06	<.010	--	--	--	--	--
MAY 03...	1.80	1.1	.67	--	.030	.09	.020	2	1	1	<100	--
28...	.60	.00	.70	--	.040	.12	.030	--	--	--	--	--
JUN 25...	.90	.30	.60	--	.010	.03	.010	--	--	--	--	--
JUL 19...	.80	.50	.30	--	.020	.06	.020	--	--	--	--	--
AUG 10...	.80	.30	.50	.90	.050	.15	.050	--	--	--	--	--
27...	1.30	.50	.80	1.4	.030	.09	.020	--	--	--	--	--
SEP 10...	1.20	.50	.70	1.3	.040	.12	.030	--	--	--	--	--

[illegible][illegible]

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

[illegible]

02327100 SOPCHOPPY RIVER NEAR SOPCHOPPY, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOT. IN MATL. (UG/KG)	MIREX, TOTAL (UG/L)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)
OCT 30...	<.01	<.1	<.01	<.1	<.01	<.01	<.1	<.01	<.01	<.1	<.01	<.01
DEC 21...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 03...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 15...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 03...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 28...	--	--	--	--	--	--	--	--	--	--	--	--
JUN 25...	--	--	--	--	--	--	--	--	--	--	--	--
JUL 19...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 10...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 27...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 10...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	PER- THANE IN BOT- TOM MA- TERIAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)
OCT 30...	<.01	<.01	<.10	<0	<1.0	<.01	<.01	<.01	<.01
DEC 21...	--	--	--	--	--	--	--	--	--
FEB 03...	--	--	--	--	--	--	--	--	--
MAR 15...	--	--	--	--	--	--	--	--	--
MAY 03...	--	--	--	--	--	--	--	--	--
MAY 28...	--	--	--	--	--	--	--	--	--
JUN 25...	--	--	--	--	--	--	--	--	--
JUL 19...	--	--	--	--	--	--	--	--	--
AUG 10...	--	--	--	--	--	--	--	--	--
AUG 27...	--	--	--	--	--	--	--	--	--
SEP 10...	--	--	--	--	--	--	--	--	--

DATE	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. & FINER THAN .062 MM
OCT 30...	<.1	<.01	11	.10	9
DEC 21...	--	--	3	.19	33
FEB 03...	--	--	9	4.8	33
MAR 15...	--	--	4	1.4	25
MAY 03...	--	--	4	.66	50
MAY 28...	--	--	9	.46	22
JUN 25...	--	--	5	13	20
JUL 19...	--	--	7	4.6	--
AUG 10...	--	--	6	1.9	17
AUG 27...	--	--	7	7.0	43
SEP 10...	--	--	12	3.9	42

02329000 OCHLOCKONEE RIVER NEAR HAVANA, FL
(National stream-quality accounting network station)

LOCATION.--Lat 30°33'14", long 84°23'03", in SE¼ sec.24, T.2 N., R.2 W., Leon County, Hydrologic Unit 03120003, near left bank on downstream side of downstream bridge on divided U.S. Highway 27, 0.8 mi (1.3 km) upstream from Seaboard Air Line Railroad bridge, 4.0 mi (6.4 km) downstream from Mill Creek, 5.0 mi (8.0 km) southeast of Havana, and 94 mi (151 km) upstream from mouth.

DRAINAGE AREA.--1,140 mi² (2,950 km²), approximately. At site used prior to January 1929, 1,220 mi² (3,160 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1926 to current year. June 1926 to December 1929 (published as "at Ochlockonee"). Records published for both sites December 1928 to December 1929.

REVISED RECORDS.--WSP 822: 1929 (M). WSP 1504: 1928. WSP 1905: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 59.36 ft (18.093 m) National Geodetic Vertical Datum of 1929. Prior to Jan. 1, 1930, nonrecording gage at site about 10 mi (16.1 km) downstream at datum 0.36 ft (0.110 m) lower. Dec. 12, 1928, to Nov. 17, 1963, nonrecording gage at site 100 ft (30 m) upstream at present datum. Nov. 18, 1963 to Nov. 15, 1977, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--56 years, 1,019 ft³/s (28.86 m³/s), 12.14 in/yr, (308 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,900 ft³/s (1,580 m³/s) Apr. 4, 1948, gage height, 35.08 ft (10.692 m); minimum, 17 ft³/s (0.48 m³/s) Oct. 23-28, Nov. 1, 1954; minimum gage height, 10.75 ft (3.277 m) Oct. 31, Nov. 1, 3, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,500 ft³/s (127 m³/s) Feb. 10, gage height, 25.20 ft (7.681 m); minimum, 30 ft³/s (0.850 m³/s), for part or all of each day Oct. 23-25, gage height, 10.85 ft (3.307 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	169	97	814	1090	1460	1280	2200	568	701	1160	224
2	52	142	115	898	1070	1310	1080	2370	549	691	1420	204
3	48	124	161	996	1120	1180	871	2470	440	625	1660	190
4	46	109	240	1110	1520	1070	726	2430	371	513	1760	174
5	46	99	290	1200	1790	1010	642	2230	324	411	1700	164
6	43	91	318	1250	2150	1090	579	1880	280	358	1500	158
7	42	83	322	1300	3100	1210	535	1510	249	300	1280	187
8	42	76	304	1360	4100	1300	612	1160	227	257	1120	231
9	39	72	271	1360	4460	1350	872	865	207	245	994	258
10	37	73	241	1390	4360	1420	1140	669	191	257	882	270
11	37	85	217	1470	3930	1490	1460	604	177	254	789	337
12	35	90	204	1570	3480	1520	1720	589	172	240	726	508
13	35	126	198	1710	3240	1460	1920	589	186	223	749	679
14	35	168	201	1910	2880	1440	2040	586	192	219	955	810
15	36	186	251	2130	2630	1350	2050	551	181	216	1160	890
16	37	181	318	2380	2580	1240	1910	484	173	220	1270	911
17	35	174	389	2640	2780	1130	1690	413	180	278	1260	886
18	34	156	468	2680	3010	1020	1440	367	332	333	1170	795
19	33	145	492	3480	3290	906	1220	334	433	316	1040	648
20	32	142	513	3840	3450	812	1070	315	388	309	880	528
21	31	139	514	3850	3370	733	959	416	324	343	700	493
22	31	130	492	3520	3130	672	896	451	275	355	567	458
23	30	121	455	3100	2860	618	898	487	370	340	483	404
24	30	113	422	2650	2570	617	911	525	359	318	429	353
25	33	109	396	2290	2340	664	902	357	347	296	392	309
26	44	103	375	2030	2120	769	910	355	334	296	357	278
27	85	99	362	1810	1880	838	963	420	343	318	359	256
28	151	96	359	1590	1670	998	1170	581	458	352	347	235
29	195	96	396	1500	---	1250	1550	717	584	470	316	213
30	216	95	602	1380	---	1430	1930	767	672	640	279	194
31	202	---	700	1270	---	1440	---	684	---	919	248	---
TOTAL	1846	3592	10683	60478	75970	34797	35946	28376	9886	11613	27952	12245
MEAN	59.5	120	345	1951	2713	1122	1198	915	330	375	902	408
MAX	216	186	700	3850	4460	1520	2050	2470	672	919	1760	911
MIN	30	72	97	814	1070	617	535	315	172	216	248	158
CFSM	.05	.11	.30	1.71	2.38	.98	1.05	.80	.29	.33	.79	.36
IN.	.06	.12	.35	1.97	2.48	1.14	1.17	.93	.32	.38	.91	.40
AC-FT	3660	7120	21190	120000	150700	69020	71300	56280	19610	23030	55440	24290
CAL YR 1981	TOTAL	129297	MEAN 354	MAX 2490	MIN 30	CFSM .31	IN 4.22	AC-FT 256500				
WTR YR 1982	TOTAL	313384	MEAN 859	MAX 4460	MIN 30	CFSM .75	IN 10.23	AC-FT 621600				

OCHLOCKONEE RIVER BASIN

02329000 OCHLOCKONEE RIVER NEAR HAVANA, FL--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.11	12.26	11.56	17.11	18.50	20.03	19.32	22.27	15.70	16.50	18.81	13.07
2	11.09	12.02	11.76	17.56	18.42	19.46	18.42	22.68	15.58	16.44	19.88	12.88
3	11.05	11.84	12.18	18.05	18.64	18.92	17.48	22.92	14.84	16.05	20.70	12.75
4	11.02	11.69	12.82	18.60	20.23	18.42	16.78	22.82	14.32	15.34	21.04	12.59
5	11.02	11.58	13.21	19.01	21.11	18.11	16.33	22.30	13.96	14.63	20.83	12.49
6	10.99	11.50	13.41	19.22	22.12	18.48	16.00	21.38	13.59	14.23	20.18	12.42
7	10.97	11.42	13.44	19.40	23.87	19.06	15.75	20.20	13.31	13.75	19.35	12.72
8	10.96	11.35	13.31	19.64	24.90	19.42	16.17	18.82	13.08	13.38	18.63	13.14
9	10.95	11.30	13.08	19.65	25.17	19.61	17.48	17.42	12.90	13.27	18.04	13.38
10	10.93	11.31	12.84	19.78	25.10	19.89	18.70	16.41	12.76	13.38	17.48	13.50
11	10.93	11.44	12.65	20.08	24.77	20.14	20.04	16.04	12.62	13.35	16.99	14.05
12	10.91	11.49	12.55	20.42	24.35	20.23	20.89	15.94	12.57	13.22	16.64	15.30
13	10.91	11.86	12.50	20.86	24.05	20.05	21.49	15.93	12.71	13.06	16.77	16.37
14	10.91	12.25	12.52	21.47	23.57	19.96	21.84	15.90	12.77	13.02	17.84	17.09
15	10.92	12.40	12.92	22.08	23.20	19.62	21.85	15.67	12.66	13.00	18.82	17.52
16	10.93	12.36	13.41	22.71	23.13	19.17	21.47	15.23	12.58	13.03	19.27	17.63
17	10.91	12.30	13.95	23.21	23.42	18.68	20.80	14.72	12.65	13.56	19.23	17.50
18	10.90	12.14	14.64	23.27	23.75	18.16	19.95	14.35	13.99	14.03	18.87	17.02
19	10.89	12.04	14.84	24.36	24.11	17.64	19.09	14.07	14.79	13.89	18.24	16.18
20	10.88	12.02	15.03	24.70	24.32	17.20	18.40	13.88	14.46	13.83	17.46	15.44
21	10.87	11.99	15.06	24.71	24.22	16.82	17.88	14.67	13.96	14.11	16.48	15.20
22	10.87	11.90	14.92	24.40	23.91	16.50	17.60	14.92	13.53	14.21	15.68	14.97
23	10.86	11.81	14.68	23.87	23.54	16.22	17.61	15.17	14.32	14.09	15.14	14.58
24	10.85	11.73	14.44	23.23	23.10	16.21	17.67	15.42	14.24	13.91	14.76	14.19
25	10.89	11.68	14.27	22.50	22.61	16.46	17.62	14.22	14.14	13.72	14.49	13.83
26	11.01	11.61	14.13	21.81	22.04	17.00	17.66	14.21	14.04	13.72	14.23	13.57
27	11.43	11.58	14.05	21.19	21.37	17.33	17.90	14.70	14.10	13.91	14.24	13.37
28	12.10	11.55	14.06	20.48	20.72	18.06	18.85	15.78	14.97	14.18	14.15	13.17
29	12.48	11.55	14.37	20.18	---	19.20	20.32	16.59	15.79	15.04	13.89	12.96
30	12.64	11.54	15.85	19.73	---	19.92	21.53	16.87	16.33	16.15	13.58	12.79
31	12.53	---	16.46	19.29	---	19.98	---	16.40	---	17.67	13.30	---
TOTAL	345.71	353.51	424.91	652.57	638.24	575.95	562.89	527.90	417.26	441.67	535.01	431.67
MEAN	11.15	11.78	13.71	21.05	22.79	18.58	18.76	17.03	13.91	14.25	17.26	14.39
MAX	12.64	12.40	16.46	24.71	25.17	20.23	21.85	22.92	16.33	17.67	21.04	17.63
MIN	10.85	11.30	11.56	17.11	18.42	16.21	15.75	13.88	12.57	13.00	13.30	12.42
CAL YR 1981	TOTAL	4938.36	MEAN	13.53	MAX	22.98	MIN	10.85				
WTR YR 1982	TOTAL	5907.29	MEAN	16.18	MAX	25.17	MIN	10.85				

02329000 OCHLOCKONEE RIVER NEAR HAVANA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1962 to June 1972, October 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCHI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
NOV 04...	0930	97	292	7.0	18.0	16	8.9	43	150	35	6	8.0
DEC 29...	1720	389	205	6.8	13.0	13	9.4	>120	>200	24	8	5.3
FEB 19...	1330	3290	59	6.2	15.0	21	8.2	130	86	13	6	2.9
MAY 07...	1330	1470	68	6.4	20.5	24	6.4	13	190	16	6	3.8
JUN 02...	1210	556	151	7.0	26.0	34	5.6	>120	>200	19	6	4.5
AUG 23...	1330	433	117	7.1	27.0	16	5.7	510	700	27	7	6.5
DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
NOV 04...	3.6	38	68	2.9	3.3	29	5.6	14	53	.2	8.9	147
DEC 29...	2.5	31	71	2.9	2.9	16	4.9	9.7	41	.1	9.2	122
FEB 19...	1.3	5.5	44	.7	1.9	7.0	8.6	4.3	10	.1	5.5	62
MAY 07...	1.6	5.7	40	.6	2.2	10	7.7	7.0	12	.1	6.0	688
JUN 02...	2.0	20	66	2.0	2.2	13	2.5	5.0	28	.1	6.2	95
AUG 23...	2.7	9.8	41	.8	2.3	20	3.1	5.0	16	.2	10	87
DATE	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
NOV 04...	148	.20	38.7	1.1	.060	.08	.81	.490	1.5	.330	.330	1.0
DEC 29...	112	.17	128	.73	.080	.10	.40	.300	.92	--	.180	.55
FEB 19...	36	.08	551	.27	.050	.06	.74	.110	.34	.060	.030	.09
MAY 07...	45	.94	2730	.43	.090	.12	<.10	.200	.61	.050	.030	.09
JUN 02...	76	.13	143	.63	.180	.23	1.00	.290	.89	.080	.070	.21
AUG 23...	65	.12	102	.75	.120	.15	.90	.280	.86	.040	.040	.12
DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDEED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDEED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDEED RECOV- ERABLE (UG/L AS CO)
NOV 04...	2	1	1	<100	20	<1	1	10	0	10	1	--
DEC 29...	1	1	0	<100	18	1	<1	20	10	10	<1	--
FEB 19...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 07...	2	1	1	<100	40	<1	<1	10	--	<10	1	--
JUN 02...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 23...	2	1	1	<100	25	1	<1	10	0	10	.2	1

02329000 OCHLOCKONEE RIVER NEAR HAVANA, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)
NOV 04...	<1	7	6	1	1000	830	170	2	--	<1	50	20
DEC 29...	3	8	7	1	980	710	270	<1	--	<1	30	20
FEB 19...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 07...	<1	2	0	2	1900	1500	400	2	--	<1	100	20
JUN 02...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 23...	1	6	4	2	2900	2700	210	9	6	3	120	40

DATE	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDED RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)
NOV 04...	34	<.1	--	<.1	3	--	<1	<1	<1	<1	<1	50
DEC 29...	12	<.1	--	<.1	2	--	<1	<1	<1	<1	<1	20
FEB 19...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 07...	77	<.1	--	<.1	3	0	3	<1	<1	<1	<1	20
JUN 02...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 23...	84	.4	.3	.1	8	6	2	<1	<1	<1	<1	10

[illegible][illegible]

02329000 OCHLOCKONEE RIVER NEAR HAVANA, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOKIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL (UG/L)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)
NOV 04...	--	<.1	--	<.1	--	--	<.1	--	--	<.1	--	--
DEC 29...	--	--	--	--	--	--	--	--	--	--	--	--
FEB 19...	<.01	--	<.01	--	<.01	<.01	--	<.01	<.01	--	<.01	<.01
MAY 07...	<.01	<.1	<.01	<.1	<.01	<.01	<.1	<.01	<.01	<.1	<.01	<.01
JUN 02...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 23...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	PER- THANE IN BOTTOM MATERIL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)
NOV 04...	--	--	<.10	--	<1.0	--	--	--	--
DEC 29...	--	--	--	--	--	--	--	--	--
FEB 19...	<.01	<.01	--	<0	--	<.01	<.01	<.01	<.01
MAY 07...	<.01	<.10	<1.00	<1	<10	<.01	<.01	<.01	<.01
JUN 02...	--	--	--	--	--	--	--	--	--
AUG 23...	--	--	--	--	--	--	--	--	--

DATE	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. & FINER THAN .062 MM
NOV 04...	<.1	--	13	3.4	62
DEC 29...	--	--	21	22	38
FEB 19...	--	<.01	10	89	70
MAY 07...	<.1	<.01	18	71	50
JUN 02...	--	--	40	60	78
AUG 23...	--	--	11	13	64

OCHLOCKONEE RIVER BASIN

02329104 OX BOTTOM CREEK NEAR TALLAHASSEE, FL

LOCATION.--Lat 30°33'02", long 84°18'15", in NE¼ sec.26, T.2 N., R.1 W., Leon County, Hydrologic Unit 03120003, near right bank, 0.5 mi (0.8 km) upstream from Lake Jackson, 1.6 mi (2.6 km) west of State Highway 155, and 7.6 mi (12.2 km) north of Tallahassee.

DRAINAGE AREA.--2.36 mi² (6.11 km²).

PERIOD OF RECORD.--June 1973 to June 1976, August 1978 to current year.

GAGE.--Water-stage recorder. Datum of gage is 90.50 ft (27.584 m) National Geodetic Vertical Datum of 1929. Auxiliary nonrecording gage at stoplog control structure 2,500 ft (762 m) downstream. Datum of gage is 3.82 ft (1.164 m) lower.

REMARKS.--Records poor. Flow partly regulated by stoplog control structure.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 155 ft³/s (4.39 m³/s) Mar. 10, 1979, gage height, 6.12 ft (1.865 m). Creek observed dry some water years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 53 ft³/s (1.50 m³/s) Apr. 7, gage height, 5.44 ft (1.658 m); creek observed dry, May 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00		---	.46	.19	.00	1.8	.35	5.3	.01
2	.00	.00	.00		---	.39	.33	.00	1.9	.05	4.0	.01
3	.00	.00	.00		---	.35	.27	.00	2.0	.00	2.7	.01
4	.00	.00	.00		---	.32	.18	.00	1.1	.00	1.9	.01
5	.00	.00	.00		---	.28	.14	.00	.30	.32	1.7	.01
6	.00	.00	.00		---	.27	.16	.00	.01	1.5	1.5	.00
7	.00	.00	.00		---	.25	.16	.00	.00	.85	2.1	.00
8	.00	.00	.00		---	.23	.14	.00	.00	.77	1.9	.00
9	.00	.00	.00		---	.22	7.1	---	.00	.85	1.5	---
10	.00	.00	.00		---	.21	4.4	---	.00	.77	1.4	---
11	.00	.00	.00		---	.19	3.4	---	.00	.85	1.3	---
12	.00	.00	.00		---	.18	2.9	---	.00	.81	1.2	---
13	.00	.00	.00		---	.17	2.5	---	.00	.70	1.1	---
14	.00	.00	.00		---	1.5	2.3	---	.00	.66	1.0	---
15	.00	.00	.00		---	1.1	1.9	---	.00	1.8	.85	---
16	.00	.08	.00		---	.70	1.7	---	.00	2.5	.70	---
17	.00	.41	.00		2.4	.35	1.5	.00	.00	2.7	.63	---
18	.00	.21	.00		1.3	.30	1.4	.00	.03	1.8	.66	---
19	.00	.11	.00		.81	.22	1.5	.70	.03	2.2	.54	---
20	.00	.03	.00		.63	.10	2.5	.73	.03	1.6	.48	---
21	.00	.00	.00		.54	1.5	1.5	.21	.03	1.4	1.5	.23
22	.00	.00	.00		.27	1.2	1.3	.00	.02	1.3	1.4	.12
23	.00	.00	.00		.66	2.0	1.0	.22	.07	1.7	1.0	.06
24	.00	.00	.00		2.3	1.4	.66	.94	.11	5.9	.46	.03
25	.00	.00	.00		2.2	.60	.46	1.5	3.4	4.7	.35	.03
26	.00	.00	---		.99	.39	.32	2.0	1.2	2.1	.30	.03
27	.00	.00	---		.63	.30	.12	1.9	.94	1.5	.23	.01
28	.00	.00	---		.54	.25	.00	.81	.85	5.3	.03	.00
29	.00	.00	---		---	.21	.00	.28	.77	7.8	.25	.00
30	.00	.00	---		---	.20	.00	.06	.60	14	.02	.00
31	.00	---	---		---	.20	---	.39	---	10	.01	---
TOTAL	.00	.84	---		---	16.04	69.73	---	15.19	76.78	38.01	---
MEAN	.000	.028	---		---	.52	2.32	---	.51	2.48	1.23	---
MAX	.00	.41	---		---	2.0	16	---	3.4	14	5.3	---
MIN	.00	.00	---		---	.10	.00	---	.00	.00	.01	---
CFSM	.000	.01	---		---	.22	.98	---	.22	1.05	.52	---
IN.	.00	.01	---		---	.25	1.10	---	.24	1.21	.60	---
AC-FT	.00	1.7	---		---	32	138	---	30	152	75	---

02329161 FORDS ARM TRIBUTARY AT TALLAHASSEE, FL

LOCATION.--Lat 30°29'59", long 84°16'39", in SE¼ sec.12, T.1 N., R.1 W., Leon County, Hydrologic Unit 03120001, on left bank 60 ft (18.3 m) downstream from culvert on State Highway 155 (Meridian Road), 1.0 mi (1.6 km) above Fords Arm on Lake Jackson and 4.3 mi (6.9 km) north of Tallahassee.

DRAINAGE AREA.--1.66 mi² (4.30 km²).

PERIOD OF RECORD.--June 1973 to September 1975, January 1979 to current year.

GAGE.--Water-stage recorder. Datum of gage is 101.95 ft (31.074 m) National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). June 1973 to September 1975 at site 50 ft (15.240 m) upstream at datum 2.68 ft (0.817 m) lower.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 114 ft³/s (3.23 m³/s) Aug. 4, 1973; maximum gage height, 4.56 ft (1.390 m), Feb. 11, 1981; no flow for many days in 1980, 1981, 1982; minimum gage height, 0.10 ft (0.030 m) Sept. 16, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 92 ft³/s (2.60 m³/s), July 29, gage height, 4.14 ft (1.262 m); no flow for many days during the year.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	---	.25	1.3	.54	---	.47	.51	.00	.54	2.5	---
2	.00	---	.66	.79	.44	---	.44	.44	.00	.44	1.9	---
3	.00	---	.27	.70	6.0	---	.41	.35	.00	.38	1.5	---
4	.00	---	.23	.74	1.3	---	.35	.29	.00	.38	1.4	---
5	.00	---	.21	.62	.88	---	.38	.25	.00	2.1	1.2	---
6	.00	---	.21	.62	.74	---	.38	.23	.00	1.5	1.2	---
7	.00	---	.21	1.0	.66	---	.32	.21	.00	1.2	2.1	---
8	.00	---	.21	1.1	.58	---	2.5	.47	.00	.83	1.3	---
9	.00	---	.19	.66	1.9	---	3.0	.27	.00	.74	.79	---
10	.00	---	.19	.62	.88	---	1.9	.23	.00	.88	---	---
11	.38	---	.21	.58	.66	---	1.8	.17	.00	1.2	---	---
12	.10	---	.35	.62	2.3	---	.93	.14	.00	1.3	---	---
13	.00	---	.32	1.4	1.2	---	.74	.10	.00	.93	---	---
14	.00	---	2.5	2.7	.79	---	.70	.05	.00	.83	---	---
15	.00	---	2.5	.98	.74	---	.66	.00	.00	5.0	---	---
16	---	.08	.88	.88	.88	---	.58	.00	2.8	2.1	---	---
17	---	.08	.66	.83	2.8	---	.54	.00	7.0	1.5	---	---
18	---	.04	.62	.70	.83	---	.54	.00	2.5	1.8	---	---
19	---	.04	.58	.66	.70	---	.51	.00	.58	1.3	---	---
20	---	.08	.54	.62	.62	---	.66	.00	.38	1.0	---	---
21	---	.06	.54	.58	.58	---	.51	.00	.29	.88	---	---
22	---	.12	.54	.58	.54	---	.41	.00	.41	.98	---	.51
23	---	.14	.58	.66	.51	---	.35	.19	.44	1.6	---	.51
24	---	.14	.54	.58	.51	---	.38	.29	.29	4.2	---	.47
25	---	.12	.51	.47	.47	.79	.98	.41	8.0	8.2	---	.44
26	---	.08	.51	.44	.47	.74	.88	.51	3.6	2.8	---	.44
27	---	.04	.58	.44	.51	.54	.54	.41	1.6	1.4	---	.38
28	---	.04	.51	.41	.51	.54	.44	.23	1.1	7.3	---	.38
29	---	.02	.74	.38	---	.54	.38	.02	.83	22	---	.35
30	---	.04	1.1	.38	---	.51	.41	.00	.62	16	---	.32
31	---	---	3.9	.58	---	.51	---	.00	---	4.6	---	---
TOTAL	---	---	21.84	23.62	29.54	---	23.09	5.77	30.44	95.91	---	---
MEAN	---	---	.70	.76	1.06	---	.77	.19	1.01	3.09	---	---
MAX	---	---	3.9	2.7	6.0	---	3.0	.51	8.0	22	---	---
MIN	---	---	.19	.38	.44	---	.32	.00	.00	.38	---	---
CFSM	---	---	.42	.46	.64	---	.46	.11	.61	1.86	---	---
IN.	---	---	.49	.53	.66	---	.52	.13	.68	2.15	---	---
AC-FT	---	---	43	47	59	---	46	11	60	190	---	---

OCHLOCKONEE RIVER BASIN

02329490 WILLACOCHEE CREEK NEAR QUINCY, FL

LOCATION.--Lat 30°38'13", long 84°30'02", in NE¼ sec.26, T.3 N., R.3 W., Gadsden County, Hydrologic Unit 03120003, at bridge on State Highway 161, 1.6 mi (2.6 km) southwest of Branchville, and 5.6 mi (9.0 km) northeast of Quincy.

DRAINAGE AREA.--64.9 mi² (168.1 km²).

PERIOD OF RECORD.--

DISCHARGE: October 1974 to September 1977, and October 1979 to current year (gage heights and discharge measurements only).

WATER TEMPERATURE: October 1975 to current year. Results of miscellaneous temperature observations prior to October 1975 are available in files of the Geological Survey.

GAGE.--Nonrecording gage and crest-stage gage. Datum of gage is 106.42 ft (32.437 m) above mean sea level.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: (Water years 1975-77, 1980-82); Maximum discharge, 2,250 ft³/s (63.7 m³/s) Jan. 13, 1975, gage height, 7.59 ft (2.313 m); minimum measured, 14 ft³/s (0.40 m³/s) July 15, 1977.

WATER TEMPERATURE: (Water years 1976-82); Maximum observed, 25.0°C June 15, 1977; minimum observed, 6.0°C Jan. 26, 1977.

DISCHARGE MEASUREMENTS AND WATER TEMPERATURES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPE- ATURE (DEG C)	DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPE- ATURE (DEG C)
OCT					MAY				
06...	1305	--	15	20.0	10...	0955	--	46	17.5
DEC					JUL				
07...	1105	--	28	7.0	13...	1230	--	44	23.0
MAR					SEP				
22...	1050	--	43	20.0	13...	1110	--	46	22.0

02329500 LITTLE RIVER NEAR QUINCY, FL

LOCATION.--Lat 30°35'14", long 84°29'48", in NW¼ sec.12, T.2 N., R.3 W., Gadsden County, Hydrologic Unit 03120003, near left bank on downstream side of bridge on State Highway 12, 0.5 mi (0.8 km) southwest of Shady Rest, 1.1 mi (1.8 km) downstream from confluence of Willacoochee and Attapulgis Creeks, 4.5 mi (7.2 km) east of Quincy, and 12 mi (19 km) upstream from mouth.

DRAINAGE AREA.--237 mi² (614 km²).

PERIOD OF RECORD.--April 1950 to March 1979; April 1979 to September 1980 (discharge measurements only); October 1980 to current year.

REVISED RECORDS.--WSP 1704: 1958, 1959; WSP 1905: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 83.19 ft (25.356 m) National Geodetic Vertical Datum of 1929, unadjusted. Prior to June 5, 1978 at site 50 ft downstream at same datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--30 years (water years 1951-78, 1981-82), 286 ft³/s (8.100 m³/s) 16.39 in/yr, (416 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 45,600 ft³/s (1,290 m³/s) Sept. 22, 1969, gage height, 24.65 ft (7.513 m), from floodmarks; minimum, 6.7 ft³/s (0.19 m³/s) Oct. 5, 6, 1968, July 2, 1969, gage height, 0.52 ft (0.158 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1500 ft³/s (42.5 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)
Jan. 16	0400	1790 50.07	11.40 3.475	Feb. 5	0400	*2980 84.04	12.62 3.847

Minimum discharge, 29 ft³/s (0.84 m³/s) Oct. 19, 22, gage height, 1.15 ft (.351 m).

CORRECTION.--The maximum discharge for water year 1981 previously omitted is 2,650 ft³/s (75.0 m³/s) Feb. 12, 1981, gage height, 12.33 ft (3.758 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	70	78	1250	291	205	156	178	181	139	270	45
2	38	66	222	1140	351	199	141	152	308	102	224	43
3	37	63	258	946	580	191	132	137	194	80	185	42
4	36	61	190	624	1400	181	160	122	156	66	156	48
5	34	58	134	514	2490	184	150	109	119	62	117	73
6	33	57	98	431	1300	350	137	98	80	66	134	110
7	34	57	85	322	732	568	119	89	62	117	194	156
8	36	54	81	309	412	634	163	112	53	107	195	145
9	35	49	80	361	366	534	333	174	47	92	286	93
10	38	51	77	380	538	376	485	153	43	122	337	163
11	37	104	74	316	602	262	665	117	40	164	387	276
12	37	124	77	220	550	221	588	91	39	253	432	330
13	37	116	121	303	610	200	340	78	52	182	442	325
14	34	88	156	797	595	189	209	71	49	137	580	210
15	32	70	265	1240	551	182	164	65	42	98	353	137
16	32	67	359	1600	446	177	144	60	40	77	180	102
17	30	86	300	957	567	173	133	57	59	112	133	84
18	30	83	207	523	631	167	124	54	212	185	112	75
19	29	74	153	334	614	161	134	55	190	241	104	182
20	30	72	126	286	452	154	148	74	117	221	104	272
21	30	77	113	262	318	146	246	78	77	361	115	175
22	29	67	106	246	267	137	384	81	65	355	125	114
23	31	63	106	236	235	129	307	70	413	257	103	89
24	31	64	108	319	221	216	197	65	831	244	93	74
25	53	67	107	342	208	360	150	74	750	258	87	66
26	161	62	108	288	201	452	423	213	253	206	74	63
27	248	61	108	229	200	360	896	229	146	139	66	62
28	212	66	105	199	207	285	1210	229	158	143	59	61
29	161	69	372	188	---	257	686	195	211	627	52	55
30	105	67	769	182	---	192	266	106	185	500	51	50
31	79	---	1180	186	---	164	---	85	---	441	46	---
TOTAL	1827	2133	6323	15530	15935	8006	9390	3471	5172	6154	5796	3720
MEAN	58.9	71.1	204	501	569	258	313	112	172	199	187	124
MAX	248	124	1180	1600	2490	634	1210	229	831	627	580	330
MIN	29	49	74	182	200	129	119	54	39	62	46	42
CFSM	.25	.30	.86	2.11	2.40	1.09	1.32	.47	.73	.84	.79	.52
IN.	.29	.33	.99	2.44	2.50	1.26	1.47	.54	.81	.97	.91	.58
AC-FT	3620	4230	12540	30800	31610	15880	18630	6880	10260	12210	11500	7380
CAL YR 1981	TOTAL	62209	MEAN 170	MAX 2220	MIN 29	CFSM .72	IN 9.76	AC-FT 123400				
WTR YR 1982	TOTAL	83457	MEAN 229	MAX 2490	MIN 29	CFSM .97	IN 13.10	AC-FT 165500				

OCHLOCKONEE RIVER BASIN

02329534 QUINCY CREEK AT S267 AT QUINCY, FL

LOCATION.--Lat 30°36'00", long 84°34'50", in NW¼ sec. 6, T.2 N., R.3 W., Gadsden County, Hydrologic Unit 03120003, at culvert on State Highway 267, 0.9 mi (1.4 km) north of Quincy, and 6.2 mi (10.0 km) upstream from mouth.

DRAINAGE AREA.--16.8 mi² (43.5 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to September 1977, December 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is 126.00 ft (38.405 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Streamflow affected by city water plant withdrawal about 400 ft (120 m) above gage.

AVERAGE DISCHARGE.--7 years (water years 1975-77, 1978-82), 25.8 ft³/s (0.731 m³/s), 20.9 in/yr (530 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Discharge 1,630 ft³/s (46.2 m³/s) July 25, 1980, gage height, 8.40 ft (2.560 m), from rating curve extended above 520 ft³/s (14.7 m³/s); minimum, 3.2 ft³/s (0.091 m³/s) for part of each day May 16, 17, 23, 1982; minimum gage height, 0.23 ft (0.070 m) Sept. 16, 1980.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 22, 1969, reached a stage of 14.68 ft (4.474 m) present datum, from floodmarks, discharge not determined.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 350 ft³/s (9.91 m³/s) and maximum (*).

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
May 25	2100	*534 15.1	5.85 1.783

Minimum discharge, 3.4 ft³/s (0.091 m³/s) part of each day May 16, 17, 23; minimum gage height, 0.34 ft (0.104 m) Oct. 2-5, 8, 1981.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	9.6	18	48	22	15	12	8.7	16	7.6	24	6.4
2	5.0	9.3	27	29	17	15	11	8.2	13	7.0	19	6.3
3	4.3	8.7	17	23	134	14	13	7.9	11	7.0	15	6.5
4	4.3	8.7	13	41	79	14	12	7.3	10	7.0	13	7.0
5	4.1	8.7	11	27	44	22	11	7.3	9.3	7.3	13	8.0
6	4.5	8.2	9.9	21	33	39	12	7.0	8.7	11	22	8.6
7	5.0	7.9	9.0	22	28	42	11	7.0	8.4	20	14	9.4
8	4.3	7.9	9.3	26	25	28	30	16	8.2	13	53	9.2
9	5.2	7.9	8.7	21	33	22	31	9.9	8.2	11	87	16
10	6.0	11	8.4	17	39	20	45	7.9	7.3	16	49	32
11	6.0	17	8.7	14	28	17	39	7.3	6.0	23	48	29
12	5.7	13	12	14	34	17	24	7.0	5.0	17	55	29
13	4.5	11	14	28	37	15	19	5.5	4.0	13	37	22
14	5.0	11	15	103	28	16	15	4.3	5.0	11	26	17
15	6.0	11	36	49	24	14	13	3.6	4.0	9.3	20	15
16	6.5	13	22	34	25	13	12	3.9	6.0	8.7	16	14
17	6.0	16	16	28	41	13	12	4.8	14	9.0	15	9.0
18	5.0	13	14	23	28	12	11	5.0	24	8.7	15	7.5
19	5.2	11	13	22	24	11	9.9	5.7	14	9.3	14	10
20	4.3	11	11	20	21	12	16	7.3	9.9	19	15	12
21	4.8	11	11	19	20	11	15	8.2	7.9	28	15	11
22	4.8	9.9	11	18	18	10	12	5.5	8.4	16	17	10
23	4.8	9.6	12	22	17	9.3	10	6.3	11	17	15	9.0
24	6.3	9.6	12	25	16	34	11	6.0	10	16	11	8.0
25	15	9.6	12	19	15	26	19	128	8.2	13	7.0	7.0
26	28	9.0	11	17	14	28	28	140	9.0	11	7.5	7.0
27	23	9.3	11	15	16	19	19	72	9.3	9.6	7.0	7.0
28	16	9.6	11	14	16	17	14	37	9.9	83	6.9	7.0
29	12	9.6	41	14	---	15	11	23	11	64	6.8	6.5
30	11	9.6	27	13	---	14	9.3	22	9.0	48	6.6	6.0
31	10	---	60	19	---	13	---	20	---	29	6.5	---
TOTAL	237.1	311.7	512.0	805	876	567.3	507.2	609.6	285.7	569.5	676.3	352.4
MEAN	7.65	10.4	16.5	26.0	31.3	18.3	16.9	19.7	9.52	18.4	21.8	11.7
MAX	28	17	60	103	134	42	45	140	24	83	87	32
MIN	4.1	7.9	8.4	13	14	9.3	9.3	3.6	4.0	7.0	6.5	6.0
CFSM	.46	.62	.98	1.55	1.86	1.09	1.01	1.17	.57	1.10	1.30	.70
IN.	.52	.69	1.13	1.78	1.94	1.26	1.12	1.35	.63	1.26	1.50	.78
AC-FT	470	618	1020	1600	1740	1130	1010	1210	567	1130	1340	699
CAL YR 1981	TOTAL	6095.7	MEAN 16.7	MAX 200	MIN 3.9	CFSM .99	IN 13.50	AC-FT 12090				
WTR YR 1982	TOTAL	6309.8	MEAN 17.3	MAX 140	MIN 3.6	CFSM 1.03	IN 13.97	AC-FT 12520				

OCHLOCKONEE RIVER BASIN

02329877 OCKLAWAHA CREEK NEAR WETUMPKA, FL

LOCATION.--Lat 30°27'01", long 84°38'36", in SW¼ sec.28, T.1 N., R.4 W., Gadsden County, Hydrologic Unit 03120003, at bridge on State Highway 267, 2.5 mi (4.0 km) south of Wetumpka.

DRAINAGE AREA.--28.8 mi² (74.6 km²).

PERIOD OF RECORD.--

DISCHARGE: 1958-59 (one or two discharge measurements each water year); October 1974 to September 1977, November 1979 to current year (gage heights and discharge measurements only).

WATER TEMPERATURE: October 1975 to September 1977; January 1980 to current year. Records of periodic water temperature observations prior to October 1975 are available in files of the Geological Survey.

GAGE.--Nonrecording gage and crest-stage gage. Altitude of gage is 75 ft (22.9 m), from topographic map.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: (Water years 1958-59, 1975-77, 1979-82): Maximum discharge, 1460 ft³/s (41.3 m³/s) July 30, 1975, gage height, 5.80 ft (1.768 m), from rating curve extended above 664 ft³/s (18.8 m³/s) on basis of velocity-area study. Maximum measured, 664 ft³/s (18.8 m³/s) July 30, 1975; minimum measured, 26 ft³/s (0.74 m³/s) November 2, 1981; minimum gage height, 1.31 ft (0.399 m).

WATER TEMPERATURE: (1975-77, 1979-82): Maximum observed, 26.0°C June 18, 1981; minimum observed, 4.0°C Feb. 24, 1976.

DISCHARGE MEASUREMENTS AND WATER TEMPERATURES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)
NOV					MAR				
02...	1300	--	26	18.0	23...	1338	--	30	18.0
DEC					JUL				
08...	1330	--	27	7.0	13...	1345	--	60	22.0
FEB									
01...	1258	--	49	11.0					

02330000 OCHLOCKONEE RIVER NEAR BLOXHAM, FL

LOCATION.--Lat 30°22'59", long 84°39'18", in NE¼ sec.20, T.1 S., R.4 W., Liberty County, Hydrologic Unit 03120003, on downstream side of right pier of bridge on State Highway 20, 3,000 ft (914 m) downstream from control structure, 1.5 mi (2.4 km) southwest of Bloxham, and 65 mi (105 km) upstream from mouth.

DRAINAGE AREA.--1,700 mi² (4,403 km²), approximately.

PERIOD OF RECORD.--June 1926 to current year. Low-flow records not equivalent prior to October 1, 1954, due to undetermined amount of seepage inflow.

REVISED RECORDS.--WSP 1002: 1940-42. WSP 1704: 1958-59. WSP 1905, WDR FL-76-4: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 24.69 ft (7.526 m) National Geodetic Vertical Datum of 1929. Prior to Apr. 9, 1930, nonrecording gage at site 2,700 ft (823 m) upstream at datum 5.00 ft (1.524 m) higher. Apr. 9, 1930 to Jan. 19, 1939, water-stage recorder at site 2,000 ft (610 m) upstream, and Jan. 20, 1939 to Sept. 30, 1954, at present site at datum 5.00 ft (1.524 m) higher.

REMARKS.--Records fair except those for period of no gage-height record, Apr. 10 to June 10, Aug. 11 to Sept 13, which are poor. Flow regulated since 1929 by Jackson Bluff Dam above station and storage in Lake Talquin (02329900). Since October 1981, the publication of adjusted values for storage has been discontinued since the difference between adjusted and the unadjusted values have been minimal.

AVERAGE DISCHARGE.--56 years (water years 1927-82), 1,690 ft³/s (47.86 m³/s), 13.50 in/yr (343 mm/yr), unadjusted; 27 years (water years 1955-81) 1,781 ft³/s (50.44 m³/s) 14.23 in/yr (361 mm/yr), adjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 89,400 ft³/s (2,530 m³/s) Sept. 23, 1969, gage height, 29.2 ft (8.90 m), from floodmark; minimum discharge, since October 1954, 1.0 ft³/s (0.028 m³/s) Nov. 1, 2, 1957, caused by closure of breaks in earth embankment of Jackson Bluff Dam (indeterminate prior to October 1954).

EXTREMES OUTSIDE THE PERIOD OF RECORD.--Maximum stage since 1834, 32.64 ft (9.949 m) Sept. 30, 1957, from floodmarks established by local resident, discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 5,200 ft³/s (147 m³/s) Feb. 13, gage height, 15.39 ft (4.691 m); minimum, 133 ft³/s (3.77 m³/s) part or all of each day Oct. 24, 25, 29, 30, gage height, 3.49 ft (1.064 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	144	228	260	2590	1670	2390	1980	2800	1320	1190	3610	395		
2	144	239	321	2410	1650	2170	1920	2820	1300	1160	2350	395		
3	143	250	397	2700	2450	1930	1670	2820	1280	1140	1870	395		
4	143	249	399	2670	3620	1660	1500	2800	1240	1070	2000	395		
5	143	247	401	2930	4360	1810	1110	2770	1200	752	1920	395		
6	143	247	401	2950	4350	2640	784	2650	840	426	1800	395		
7	143	249	478	2440	4380	2580	767	2240	370	460	1550	395		
8	141	249	568	2490	4440	2690	793	1790	180	343	1420	395		
9	140	250	570	2340	4550	2890	943	1400	180	395	1450	460		
10	140	250	570	2080	4840	2380	1700	1130	181	443	1610	1700		
11	139	252	570	1950	4930	2270	3050	840	181	621	1630	2200		
12	138	252	573	1970	4780	2570	2850	640	181	975	1480	2240		
13	137	252	573	2280	4970	2180	2600	460	179	1250	1660	2040		
14	137	252	637	2670	4840	1970	2420	400	181	1260	1750	1770		
15	138	255	807	3370	4380	1770	2090	370	182	1070	1790	1470		
16	139	255	810	3540	4070	1500	2470	350	184	801	1800	1180		
17	139	255	810	3810	3670	1460	2650	340	391	781	1840	825		
18	138	255	810	4330	3730	1440	2380	330	1650	772	1800	807		
19	138	257	810	4320	3670	1420	2150	330	1460	778	1750	825		
20	138	257	810	4030	3700	1400	1890	330	1250	813	1570	819		
21	137	257	810	4000	3760	1400	1700	330	877	895	1280	822		
22	137	257	810	3790	3810	1400	1200	330	855	1190	1100	816		
23	136	257	810	3890	3820	1150	870	330	899	1220	840	810		
24	134	257	807	3580	3450	1220	700	340	868	1210	720	735		
25	135	257	804	3370	2910	2090	1000	350	949	1120	610	562		
26	136	258	801	2900	2900	2020	1360	370	1330	804	530	552		
27	135	258	801	2410	2870	2070	1790	440	1350	769	485	552		
28	136	258	632	2040	2890	2010	2240	1280	1250	793	485	522		
29	135	257	412	1910	---	2030	2650	1300	807	1340	485	391		
30	162	258	488	1810	---	1990	2750	1320	1200	2600	485	382		
31	218	---	1350	1730	---	1940	---	1320	---	3890	485	---		
TOTAL	4406	7574	20100	89300	105460	60440	53977	35320	24315	32331	44155	25640		
MEAN	142	252	648	2881	3766	1950	1799	1139	811	1043	1424	855		
MAX	218	258	1350	4330	4970	2890	3050	2820	1650	3890	3610	2240		
MIN	134	228	260	1730	1650	1150	700	330	179	343	485	382		
CFSM	.08	.15	.38	1.70	2.22	1.15	1.06	.67	.48	.61	.84	.50		
IN.	.10	.17	.44	1.95	2.31	1.32	1.18	.77	.53	.71	.97	.56		
AC-FT	8740	15020	39870	177100	209200	119900	107100	70060	48230	64130	87580	50860		
CAL YR 1981	TOTAL	330176	MEAN	905	MAX	6800	MIN	134	CFSM	.53	IN	7.23	AC-FT	654900
WTR YR 1982	TOTAL	503018	MEAN	1378	MAX	4970	MIN	134	CFSM	.81	IN	11.01	AC-FT	997700

OCHLOCKONEE RIVER BASIN

02330100 TELOGIA CREEK NEAR BRISTOL, FL

LOCATION.--Lat 30°25'35", long 84°55'40", in NW¼ sec.3, T.1 S., R.7 W., Liberty County, Hydrologic Unit 03120003, near left bank at downstream side of bridge on State Highway 20, 600 ft (180 m) upstream from White Branch, 3.0 mi (4.8 km) east of Bristol, and 33 mi (53 km) upstream from mouth.

DRAINAGE AREA.--126 mi² (326 km²).

PERIOD OF RECORD.--March 1950 to September 1971, October 1974 to September 1979, October 1980 to current year.

REVISED RECORDS.--WSP 1504: 1950-51, 1953 (M), 1955-56.

GAGE.--Water-stage recorder. Datum of gage is 99.50 ft (30.328 m) National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

REMARKS.--Record fair.

AVERAGE DISCHARGE.--28 years, (water years 1951-71, 1975-79, 1981-82) 218 ft³/s (6.174 m³/s), 23.50 in/yr (599 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,600 ft³/s (583 m³/s) Sept. 22, 1969, gage height, 16.65 ft (5.075 m), from floodmark; minimum, 28 ft³/s (0.79 m³/s) Sept. 14, Oct. 26, 27, 1954, gage height, 1.35 ft (0.411 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,380 ft³/s (39.1 m³/s) Aug. 10, gage height, 7.18 ft (2.188 m), no peak above base of 1,500 ft³/s (42.5 m³/s); minimum daily, 42 ft³/s (1.19 m³/s) Oct. 3-7, estimated; minimum gage height 2.25 ft (0.686 m) Oct. 1-5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	70	73	410	129	129	113	89	615	142	646	92
2	43	68	124	480	153	119	106	85	381	104	381	88
3	42	67	160	304	222	113	99	80	345	100	270	88
4	42	65	129	234	489	109	95	76	256	184	176	89
5	42	64	94	306	838	112	96	72	190	306	140	110
6	42	63	81	323	507	235	92	69	128	270	139	137
7	42	63	76	179	248	489	89	67	95	203	177	113
8	43	60	73	153	175	521	92	71	81	294	157	101
9	43	59	71	158	167	358	183	83	73	320	311	116
10	43	63	69	142	220	199	377	80	68	313	1120	261
11	43	103	68	118	304	155	512	71	63	263	1010	381
12	44	201	69	107	313	134	516	65	61	214	1130	356
13	45	232	86	124	395	124	290	62	60	246	1160	313
14	43	111	114	384	426	115	157	59	58	173	793	208
15	44	88	166	661	318	111	126	57	57	155	493	160
16	44	79	235	716	203	107	112	56	55	165	308	129
17	45	77	235	350	243	105	103	55	75	186	204	105
18	45	76	136	213	328	102	105	54	288	181	184	104
19	45	78	105	171	306	97	105	60	325	154	232	128
20	45	75	93	150	189	93	108	152	165	213	224	241
21	46	75	88	138	151	89	150	116	107	261	185	217
22	46	73	86	128	133	88	147	90	92	381	168	147
23	48	71	84	124	121	86	112	94	144	348	149	119
24	51	71	83	142	114	149	98	79	184	243	249	104
25	77	70	82	163	110	330	97	86	147	258	192	97
26	137	69	83	142	108	434	158	98	217	189	143	94
27	161	68	86	120	112	338	201	217	163	133	121	94
28	124	68	91	111	126	232	152	268	182	121	111	91
29	92	68	97	107	---	157	113	219	243	229	104	87
30	78	67	147	105	---	134	99	156	217	940	101	84
31	73	---	256	105	---	121	---	422	---	1020	97	---
TOTAL	1801	2462	3440	7068	7148	5685	4803	3308	5135	8309	10875	4454
MEAN	58.1	82.1	111	228	255	183	160	107	171	268	351	148
MAX	161	232	256	716	838	521	516	422	615	1020	1160	381
MIN	42	59	68	105	108	86	89	54	55	100	97	84
CFSM	.46	.65	.88	1.81	2.02	1.45	1.27	.85	1.36	2.13	2.79	1.18
IN.	.53	.73	1.02	2.09	2.11	1.68	1.42	.98	1.52	2.45	3.21	1.31
AC-FT	3570	4880	6820	14020	14180	11280	9530	6560	10190	16480	21570	8830
CAL YR 1981	TOTAL	50660	MEAN 139	MAX 2180	MIN 42	CFSM 1.10	IN 14.96	AC-FT	100500			
WTR YR 1982	TOTAL	64488	MEAN 177	MAX 1160	MIN 42	CFSM 1.41	IN 19.04	AC-FT	127900			

NEW RIVER BASIN

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02330300 NEW RIVER NEAR WILMA, FL

LOCATION.--Lat 30°07'40", long 84°53'45", in SW¼ sec.13, T.4 S., R.7 W., Liberty County, Hydrologic Unit 03130013, Apalachicola National Forest, near center on downstream side of Carr Bridge on U.S. Forest Road 13, 2.2 mi (3.5 km) upstream from West Prong New River, 4.5 mi (7.2 km) southeast of Wilma, and 40 mi (64 km) upstream from mouth.

DRAINAGE AREA.--81.7 mi² (211.6 km²).

PERIOD OF RECORD.--

DISCHARGE: October 1964 to September 1981; October 1981 to September 1982 (gage heights and discharge measurements only).

WATER TEMPERATURE: Records of water temperature observations prior to September 1982 are available in file of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation Benchmark).

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum discharge, 8,810 ft³/s (249 m³/s) Sept. 22, 1969, gage height, 50.67 ft (15.444 m); no flow at times most years; minimum gage height, 37.02 ft (11.284 m) June 24, 1977.

DISCHARGE MEASUREMENTS AND WATER TEMPERATURES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)
FEB					SEP				
02...	1200	40.34	44.4	12.0	16...	1255	42.43	324	--
MAR									
23...	1125	40.12	59.0	--					

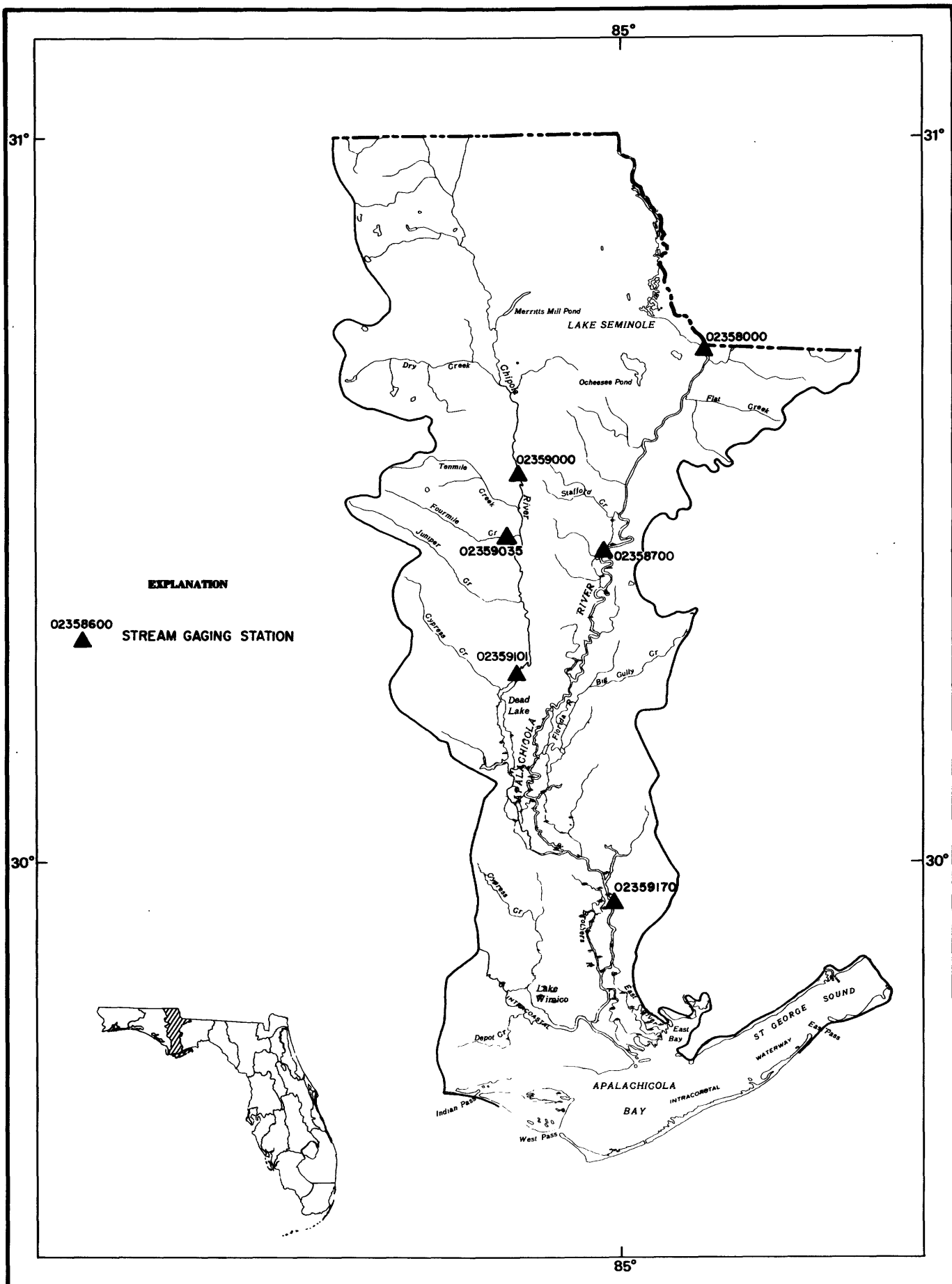


Figure 7. Location of stream gaging stations in the lower Chattahoochee and Apalachicola River basins including the Chipola River basin, coastal areas and offshore islands.

02358000 APALACHICOLA RIVER AT CHATTAHOOCHEE, FL
(National stream-quality accounting network station)

LOCATION.--Lat 30°42'03", long 84°51'33", in NW¼ sec.32, T.4 N., R.6 W., Jackson County, Hydrologic Unit 03130011, on downstream side of right main pier on U.S. Highway 90, 0.6 mi (1.0 km) downstream from Jim Woodruff Dam, 0.6 mi (1.0 km) upstream from Mosquito Creek, 1.0 mi (1.6 km) west of Chattahoochee, and 106 mi (171 km) upstream from mouth.

DRAINAGE AREA.--17,200 mi² (44,500 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1928 to current year. Monthly discharge only for some periods, published in WSP 1304. Prior to October 1939, published as "near River Junction." Gage-height records collected at site 0.9 mi (1.4 km) downstream October 1919 to September 1925, and at site approximately 100 ft (30 m) downstream October 1925 to December 1958 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1906: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 40.58 ft (12.369 m) National Geodetic Vertical Datum of 1929 (National Weather Service bench mark). Prior to Dec. 16, 1939, water-stage recorder at site 0.9 mi (1.4 km) downstream at datum 4.27 ft (1.301 m) higher. Dec. 16, 1939 to June 25, 1952, water-stage recorder, June 26, 1952 to June 2, 1954, nonrecording gage, and June 3, 1954 to Oct. 14, 1958, water-stage recorder, at site approximately 100 ft (30 m) downstream at datum 5.00 ft (1.524 m) higher.

REMARKS.--Records good. Flow regulated by Lake Seminole Reservoir (02357500) 0.6 mi (1.0 km) upstream since Feb. 4, 1957, Walter F. George Lake (02343240) since 1962, Bartlett's Ferry Reservoir (02341000) since 1926, West Point Lake (02339400) since October 1974, and Lake Sidney Lanier Reservoir (02334400) since 1956.

AVERAGE DISCHARGE.--54 years, 22,320 ft³/s (632.1 m³/s), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 293,000 ft³/s (8,300 m³/s) Mar. 20, 1929, gage height, 38.97 ft (11.878 m), present datum, extended above 193,000 ft³/s (5,470 m³/s); minimum, 4,690 ft³/s (133 m³/s) Nov. 11, 1981, gage height, -0.82 ft (-0.250 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 82,200 ft³/s (2,330 m³/s) Feb. 6, gage height, 22.86 ft (6.968 m); minimum, 4,690 ft³/s (239 m³/s) Nov. 11, gage height, -0.82 ft (-0.250 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	8440	5600	5740	28900	17200	18600	13600	35000	17000	12500	21000	13100		
2	8450	5890	5650	33200	18600	21700	13000	30200	17800	12400	22900	13600		
3	8460	5580	5490	32600	34400	24600	13800	28300	18400	12300	30800	13700		
4	8460	5470	5490	33600	65200	24300	13800	27400	18000	12100	31100	13800		
5	7900	5380	5510	37500	79800	22100	14000	28000	16800	11800	31200	13800		
6	7400	5980	5150	37700	79800	22900	14700	20600	16000	11800	31000	12900		
7	7260	5870	6510	37700	78000	21200	18400	17400	15000	11900	22600	12600		
8	7280	5280	9230	42500	73800	21900	20500	18000	14200	11700	19300	12500		
9	7280	5780	9870	43000	62400	31000	25000	17100	13100	11500	18300	13300		
10	7280	5760	8210	36800	56800	35400	31600	17600	14600	11700	17800	13800		
11	7280	5910	6710	32400	46600	35800	31600	17800	19300	11600	19300	13700		
12	7280	5910	6590	29800	52000	33600	23800	16800	14300	11600	23700	13600		
13	7280	5850	6490	30200	57200	25800	21700	16700	13100	11500	27500	13800		
14	7400	5670	6840	33300	51200	20500	19200	19900	12900	11500	21900	13800		
15	7400	5110	7160	33500	46900	19400	20100	19300	12800	12000	19100	13700		
16	7400	5780	6920	31500	44600	19000	22000	16300	12300	13300	18900	13900		
17	7440	5690	6490	34500	50700	18000	17300	15300	12200	14100	19900	15000		
18	7420	5800	6400	30100	54300	21700	16300	14800	12300	13500	21100	14200		
19	7460	5710	6470	25900	53500	22400	16600	14300	12500	17200	22400	13900		
20	6800	5690	6490	22600	48800	17300	16800	14000	12300	18300	22700	13900		
21	6280	5650	6510	25400	47700	16300	24500	13500	12400	19500	19200	13800		
22	6750	5060	6630	24100	47300	17100	29300	13400	12500	21000	18700	13800		
23	6630	5670	6550	20000	46100	23100	26300	13500	12500	21400	19000	13800		
24	6860	5620	6550	17500	43300	24800	25100	13500	12600	26700	19000	13200		
25	6120	5580	6730	17100	38300	24300	28900	14000	12600	20000	21400	12500		
26	6590	5450	6790	18800	30200	23600	35000	14300	12700	19900	20800	12400		
27	6260	5560	6730	19000	21900	19400	39000	14300	12600	21100	18200	12300		
28	5960	5510	8620	19000	18000	16000	44000	14300	12600	22800	14700	12300		
29	5780	4980	13200	17900	---	15000	48000	14600	12600	22900	14500	12300		
30	5650	5620	16100	16600	---	16000	50000	16800	12500	22900	14400	12400		
31	5960	---	18200	17200	---	15200	---	17200	---	22000	12900	---		
TOTAL	220210	168410	236020	879900	1364600	688000	733900	564200	420500	494500	655300	401400		
MEAN	7104	5614	7614	28380	48740	22190	24460	18200	14020	15950	21140	13380		
MAX	8460	5980	18200	43000	79800	35800	50000	35000	19300	26700	31200	15000		
MIN	5650	4980	5150	16600	17200	15000	13000	13400	12200	11500	12900	12300		
CFSM	.41	.33	.44	1.65	2.83	1.29	1.42	1.06	.82	.93	1.23	.78		
IN.	.48	.36	.51	1.90	2.95	1.49	1.59	1.22	.91	1.07	1.42	.87		
AC-FT	436800	334000	468100	1745000	2707000	1365000	1456000	1119000	834100	980800	1300000	796200		
CAL YR 1981	TOTAL	4409960	MEAN	12080	MAX	77200	MIN	4980	CFSM	.70	IN	9.54	AC-FT	8747000
WTR YR 1982	TOTAL	6826940	MEAN	18700	MAX	79800	MIN	4980	CFSM	1.09	IN	14.77	AC-FT	13540000

APALACHICOLA RIVER BASIN

02358000 APALACHICOLA RIVER AT CHATTAHOOCHEE, FL--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.97	-.39	-.33	10.75	5.77	6.48	3.88	12.80	5.57	2.83	6.59	3.07
2	.97	-.26	-.37	12.25	6.04	7.91	3.60	11.31	5.95	2.79	7.36	3.23
3	.98	-.40	-.44	12.10	12.13	9.15	4.01	10.58	6.55	2.74	10.49	3.25
4	.98	-.45	-.44	12.39	19.46	9.01	4.03	10.24	6.04	2.65	10.62	3.30
5	.71	-.49	-.43	13.48	22.39	8.11	4.08	10.48	5.46	2.44	10.65	3.32
6	.46	-.22	-.60	13.54	22.39	8.37	4.48	7.41	5.00	2.48	10.56	2.88
7	.39	-.27	.01	13.55	22.03	7.73	6.44	5.75	4.37	2.49	7.25	2.76
8	.40	-.54	1.37	14.78	21.20	7.96	7.36	6.10	3.93	2.34	5.87	2.72
9	.40	-.31	1.68	14.93	18.99	11.59	9.27	5.61	3.22	2.24	5.42	3.07
10	.40	-.32	.86	13.28	17.93	12.88	11.77	5.88	4.11	2.34	5.20	3.25
11	.40	-.25	.11	12.03	16.82	13.03	11.73	6.01	6.73	2.31	5.86	3.28
12	.40	-.25	.05	11.15	17.02	12.35	8.76	5.43	3.99	2.32	7.71	3.21
13	.40	-.28	.00	11.30	18.02	9.63	7.91	5.40	3.27	2.23	9.21	3.31
14	.46	-.36	.18	12.30	16.89	7.34	6.83	7.07	3.16	2.25	6.96	3.29
15	.46	-.62	.34	12.35	15.88	6.90	7.16	6.76	3.08	2.48	5.77	3.25
16	.46	-.31	.22	11.78	15.32	6.67	7.26	5.16	2.74	3.09	5.67	3.35
17	.48	-.35	.00	12.64	16.82	6.20	5.89	4.53	2.71	3.45	6.14	3.92
18	.47	-.30	-.04	11.19	17.66	7.89	5.35	4.26	2.76	3.17	6.64	3.52
19	.49	-.34	-.01	9.62	17.33	8.18	5.47	3.99	2.89	4.91	7.17	3.36
20	.16	-.35	.00	8.30	16.37	5.91	5.61	3.83	2.75	5.43	7.28	3.36
21	-.09	-.37	.01	9.42	16.08	5.44	9.01	3.50	2.81	5.97	5.81	3.34
22	.13	-.64	.07	8.91	15.99	5.79	10.92	3.45	2.85	6.57	5.62	3.32
23	.07	-.36	.03	7.17	15.72	8.47	9.79	3.51	2.85	6.76	5.72	3.31
24	.19	-.38	.03	5.96	15.04	9.22	9.32	3.51	2.94	8.91	5.73	3.05
25	-.16	-.40	.33	5.74	13.68	8.97	10.71	3.82	2.94	6.17	6.75	2.69
26	.05	-.46	.15	6.58	11.19	8.74	12.80	3.95	2.98	6.13	6.51	2.67
27	-.10	-.41	.12	6.69	8.01	6.89	13.90	3.96	2.95	6.64	5.38	2.61
28	-.23	-.43	1.11	6.65	6.16	5.21	15.20	3.96	2.92	7.34	3.75	2.61
29	-.31	-.68	3.64	6.25	---	4.96	16.20	4.15	2.91	7.36	3.66	2.61
30	-.37	-.38	5.29	5.50	---	5.23	16.60	5.46	2.87	7.36	3.61	2.64
31	-.23	---	6.29	5.77	---	4.84	---	5.65	---	7.02	2.92	---
TOTAL	9.79	-11.57	19.23	318.35	438.33	247.05	255.34	183.52	113.30	133.21	203.88	93.55
MEAN	.32	-.39	.62	10.27	15.65	7.97	8.51	5.92	3.78	4.30	6.58	3.12
MAX	.98	-.22	6.29	14.93	22.39	13.03	16.60	12.80	6.73	8.91	10.65	3.92
MIN	-.37	-.68	-.60	5.50	5.77	4.84	3.60	3.45	2.71	2.23	2.92	2.61
CAL YR 1981	TOTAL	942.48	MEAN	2.58	MAX	21.96	MIN	-.68				
WTR YR 1982	TOTAL	2003.98	MEAN	5.49	MAX	22.39	MIN	-.68				

02358000 APALACHICOLA RIVER AT CHATTAHOOCHEE, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1962 to June 1972, January 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
NOV 02...	1530	5060	160	7.8	19.0	12	9.1	K3	K190	51	1	18
JAN 26...	1210	20500	100	6.5	10.0	21	11.5	53	21	27	5	8.8
APR 01...	0710	15200	107	7.7	16.5	16	9.1	K8	100	40	3	14
MAY 21...	1445	13500	104	7.7	25.5	6.5	7.2	K3	>200	35	0	12
JUL 21...	1305	19000	--	7.8	28.0	6.5	7.1	74	440	42	0	15
SEP 09...	1340	12600	106	--	26.5	8.4	7.2	K7	300	35	0	12
DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
NOV 02...	1.4	9.0	27	.6	1.4	50	1.5	12	7.3	.2	6.0	88
JAN 26...	1.1	7.3	36	.6	1.8	22	13	11	6.9	.1	7.0	61
APR 01...	1.3	4.2	18	.3	1.1	37	1.4	6.0	4.5	.1	6.5	80
MAY 21...	1.3	5.0	23	.4	1.3	35	1.3	8.0	3.6	.1	5.8	62
JUL 21...	1.2	5.9	23	.4	1.0	43	1.3	7.0	2.6	.1	7.6	85
SEP 09...	1.2	5.7	25	.4	1.5	36	--	7.0	4.1	.2	8.1	76
DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
NOV 02...	85	.12	1200	.26	.050	.06	.40	.040	.12	.010	<.010	--
JAN 26...	57	.08	3380	.52	.130	.17	.51	.050	.15	<.010	<.010	--
26...	57	.08	3380	.52	.130	.17	.51	.050	.15	<.010	<.010	--
APR 01...	60	.11	3280	.42	.030	.04	.45	.030	.09	.010	<.010	--
MAY 21...	58	.08	2260	.21	.050	.06	.62	.040	.12	<.010	<.010	--
JUL 21...	66	.12	4360	.11	.090	.12	.50	.040	.12	.010	<.010	--
SEP 09...	62	.10	2590	.11	.020	.03	.80	.030	.09	<.010	.020	.06
DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDE RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM SUS- PENDE RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)
NOV 02...	1	0	1	100	80	20	<1	--	<1	10	--	<10
JAN 26...	1	0	1	<100	--	25	<1	--	<1	20	10	10
APR 01...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 21...	1	--	<1	<100	--	22	1	--	<1	10	--	<10
JUL 21...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 09...	1	0	1	<100	--	21	1	0	1	10	0	10

APALACHICOLA RIVER BASIN

02358000 APALACHICOLA RIVER AT CHATTAHOOCHEE, FL--Continued

WATER-QUALITY RECORDS

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDE D RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE D RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE D RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE D RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)
NOV 02...	2	--	<1	--	--	2	300	280	19	<1	--	<1
JAN 26...	1	--	<1	6	3	3	610	550	56	2	1	1
APR 01...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 21...	2	0	2	5	3	2	460	330	130	4	2	2
JUL 21...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 09...	3	--	<1	4	2	2	450	420	31	3	1	2
DATE	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE D RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE D RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)
NOV 02...	80	80	2	<.1	<.1	--	--	<1	<1	<1	<1	<1
JAN 26...	50	40	9	<.1	<.1	4	2	2	<1	<1	1	<1
APR 01...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 21...	70	70	4	<.1	<.1	3	2	1	<1	<1	<1	<1
JUL 21...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 09...	100	100	2	<.1	<.1	2	1	1	<1	<1	<1	<1
DATE	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE D RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)	SEDI- MENT, SUS- PENDE D (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE D (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 02...	50	--	<4	<2.2	<.5	2.6	<.4	.04	.14	14	191	79
JAN 26...	10	--	<4	--	--	--	--	--	--	14	775	--
APR 01...	--	--	--	--	--	--	--	--	--	10	410	90
MAY 21...	30	--	<3	--	--	--	--	--	--	9	328	--
JUL 21...	--	--	--	--	--	--	--	--	--	10	513	80
SEP 09...	10	6	4	<1.4	<.5	1.9	<.6	.05	.08	12	408	92

02358700 APALACHICOLA RIVER NEAR BLOUNTSTOWN, FL

LOCATION.--Lat 30°25'30", long 85°01'53", in NE¼ sec.3, T.1 S., R.8 W., Calhoun County, Hydrologic Unit 03130011, on right bank 500 ft (152 m) upstream from Neal Lumber Company Landing at McNeal, 0.5 mi (0.8 km) upstream from Old River cutoff, 1.5 mi (2.4 km) southeast of Blountstown, and 78 mi (126 km) upstream from mouth.

DRAINAGE AREA.--17,600 mi (45,600 km²), approximately.

PERIOD OF RECORD.--January 1920 to September 1957 gage-height records collected in this vicinity by the National Weather Service are in the files of the Geological Survey. Miscellaneous discharge measurements for some periods August 1938 to August 1957 are in files of Corps of Engineers. October 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 26.96 ft (8.217 m) National Geodetic Vertical Datum of 1929 (National Weather Service bench mark). Prior to Sept. 17, 1921, nonrecording gage near present site at different datum. Sept. 17, 1921 to Aug. 28, 1957, nonrecording gage at several sites within 500 ft (152 m) of present site at present datum. Since Aug. 26, 1960, auxiliary nonrecording gage at site 2.2 mi (3.5 km) upstream at bridge on State Highway 20, at present datum.

COOPERATION.--Records from October 1957 to current year, were collected and computed by Corps of Engineers and were reviewed by Geological Survey.

AVERAGE DISCHARGE.--25 years, 24,110 ft³/s (682.8 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 172,000 ft³/s (4,871 m³/s) Jan. 29, 1978; gage height, 24.75 ft (7.544 m); minimum daily, 6,280 ft³/s (178 m³/s) Oct. 29, 1962; minimum gage height, 1.53 ft (0.466 m) Sept. 30, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1920, 28.6 ft (8.72 m) present datum, Mar. 21, 1929, discharge not determined, from National Weather Service records.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 82,900 ft³/s (2,350 m³/s) Feb. 7, gage height, 20.57 ft (6.270 m); minimum daily, 6,300 ft³/s (178 m³/s) Nov. 26-30, estimated.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	7460	6480	6360	25700	18200	19300	14700	45200	17800	12000	20900	12900		
2	7440	6480	6530	32300	17800	21000	12900	37400	17800	11900	23800	13200		
3	7530	6480	6460	34600	24400	23900	13300	32800	19200	11800	29000	13300		
4	7490	6480	6420	35200	44400	25200	13600	30000	19300	11700	30100	13400		
5	7530	6470	6350	38000	64300	23900	13600	29700	17900	11400	30500	13500		
6	7870	6460	6350	34700	79000	23600	13800	26100	17200	11400	31200	13100		
7	7570	6460	6350	36800	82400	23000	16200	20200	15800	11400	26700	12500		
8	7460	6500	8160	37500	79200	22000	22000	18900	14900	11400	21100	12300		
9	7370	6570	8160	35700	72200	27400	25700	18400	13300	11200	19400	12700		
10	7370	6460	11100	33700	61300	32700	29100	17700	14100	11200	18100	13500		
11	7340	6500	7620	33900	53900	34300	32900	18700	19000	11200	18700	14100		
12	7320	6450	6980	33500	50400	34400	28000	17600	17100	11200	21600	14200		
13	7340	6550	6560	31700	52700	30500	24400	17100	13700	11100	26400	13900		
14	7280	6480	6680	34700	52300	24200	21400	18900	12800	11000	24900	13900		
15	7290	6430	7280	33200	49000	20900	20400	21600	12600	11100	20300	13600		
16	7290	6480	7550	35000	45600	19700	21500	18300	12000	11600	19000	13600		
17	7290	6430	7510	35800	46000	18400	19600	16200	11900	13200	18900	14800		
18	7290	6450	7480	35000	49100	19900	17500	15300	12000	12800	20300	15500		
19	7290	6460	7440	30900	51100	22900	16900	14500	12100	13900	21200	13900		
20	7290	6450	7400	26900	51500	19500	17200	14300	11900	16600	22700	13700		
21	7290	6440	7370	26700	47200	17300	20700	13600	11800	17600	20500	13600		
22	7290	6420	7340	27100	46000	16600	28500	13100	11900	19200	18900	13500		
23	7290	6420	7300	25100	45300	20100	28000	13100	12000	19700	18700	13500		
24	7200	6420	7280	20700	43700	24200	26500	13200	12100	23800	18700	13400		
25	7110	6420	7280	18800	41200	25200	27800	13400	12100	22000	19300	12600		
26	7020	6300	7280	19200	36000	24400	36500	15200	12100	19200	21800	12300		
27	6920	6380	7280	20200	28700	22800	40600	16500	12100	19800	19300	12200		
28	6620	6300	7370	20300	22000	18200	44400	16900	12200	21000	16400	12200		
29	6480	6300	10600	19800	---	16200	49400	16900	12200	23200	14600	12200		
30	6480	6300	15200	18100	---	16100	52300	17200	12200	26300	14600	12200		
31	6480	---	17400	17500	---	16000	---	17700	---	24100	13500	---		
TOTAL	224290	193140	246440	908300	1354900	703800	749400	615700	423100	475000	661100	399300		
MEAN	7235	6438	7950	29300	48390	22700	24980	19860	14100	15320	21330	13310		
MAX	7870	6570	17400	38000	82400	34400	52300	45200	19300	26300	31200	15500		
MIN	6480	6300	6350	17500	17800	16000	12900	13100	11800	11000	13500	12200		
CFSM	.41	.37	.45	1.67	2.75	1.29	1.42	1.13	.80	.87	1.21	.76		
IN.	.47	.41	.52	1.92	2.86	1.49	1.58	1.30	.89	1.00	1.40	.84		
AC-FT	444900	383100	488800	1802000	2687000	1396000	1486000	1221000	839200	942200	1311000	792000		
CAL YR 1981	TOTAL	4570770	MEAN	12520	MAX	72800	MIN	6300	CFSM	.71	IN	9.66	AC-FT	9066000
WTR YR 1982	TOTAL	6954470	MEAN	19050	MAX	82400	MIN	6300	CFSM	1.08	IN	14.70	AC-FT	13790000

CHIPOLA RIVER BASIN

02359000 CHIPOLA RIVER NEAR ALTHA, FL
(National stream-quality accounting network station)

LOCATION.--Lat 30°32'02", long 85°09'55", in NW¼ sec.32, T.2 N., R.9 W., Calhoun County, Hydrologic Unit 03130012, near center of span on downstream side of bridge on State Highway 274, 0.9 mi (1.4 km) downstream from Holliman Branch, 3.5 mi (5.6 km) southwest of Altha, and 54 mi (87 km) upstream from mouth.

DRAINAGE AREA.--781 mi² (2,023 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1912 to December 1913, September 1921 to September 1927, August 1929 to September 1931, March 1943 to current year. Monthly discharge only for some periods published in WSP 1304.

REVISED RECORDS.--WSP 1384: Drainage area. WSP 1504: 1924, 1925 (M), 1926.

GAGE.--Water-stage recorder. Datum of gage is 19.95 ft (6.081 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Jan. 13, 1950, and Mar. 13, 1978 to Mar. 20, 1979, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--47 years (water years 1922-27, 1930-31, 1944-82), 1,489 ft³/s (42.17 m³/s), 25.89 in/yr (658 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,000 ft³/s (708 m³/s) Sept. 20, 1926, gage height, 33.55 ft (10.226 m), from floodmarks, from rating curve extended above 12,800 ft³/s (362 m³/s) on basis of slope-area measurement of peak flow; minimum, 330 ft³/s (9.35 m³/s) Oct. 31, Nov. 1, 2, 1968; minimum gage height, 8.29 ft (2.527 m) Nov. 13-15, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,340 ft³/s (151 m³/s) Feb. 8, gage height, 19.81 ft (6.038 m); minimum, 364 ft³/s (10.3 m³/s) Nov. 29, 30, gage height, 8.41 ft (2.563 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	449	443	397	865	1020	1730	1210	1830	1000	968	2670	875		
2	456	436	430	901	1000	1710	1140	1500	1050	913	2640	850		
3	443	436	416	986	1290	1760	1110	1280	1100	826	2520	845		
4	436	436	423	1150	1630	1790	1080	1160	1300	751	2310	865		
5	436	436	436	1230	1900	1740	1050	1090	1300	712	2050	835		
6	436	436	436	1320	3040	1720	1020	1040	1150	694	1940	780		
7	436	430	430	1320	4300	1900	981	999	1000	806	1820	910		
8	430	423	416	1300	5170	2000	1030	993	910	830	1630	1050		
9	436	416	403	1300	5260	2200	1110	995	865	762	1570	1200		
10	436	443	397	1300	4620	2510	1170	982	815	763	1710	1340		
11	436	449	390	1230	3700	2750	1200	1000	805	803	2140	1660		
12	436	443	403	1260	3190	2790	1120	1020	795	922	2340	1850		
13	436	436	416	1380	2910	2610	1070	991	780	997	2300	2010		
14	430	436	449	1550	2660	2290	1050	911	770	1100	1990	1960		
15	416	430	494	1500	2520	1990	1000	861	815	1200	1560	1830		
16	416	430	507	1450	2600	1780	960	828	840	1150	1450	1700		
17	410	430	514	1500	2900	1650	924	799	865	1050	1700	1600		
18	410	423	526	1600	3050	1550	898	783	870	987	2450	1500		
19	410	423	526	1660	2990	1470	875	797	840	959	2610	1400		
20	403	416	526	1620	3000	1410	920	767	815	991	2360	1350		
21	403	403	520	1490	3100	1350	972	764	789	1020	1650	1300		
22	403	403	507	1370	3070	1300	1020	810	750	950	1240	1250		
23	410	403	501	1290	2840	1240	1080	847	757	984	1050	1200		
24	410	403	488	1250	2500	1260	1160	1040	737	1250	994	1150		
25	436	397	501	1200	2160	1260	1460	1140	766	1440	975	1100		
26	514	397	494	1160	1900	1340	2160	1110	874	1600	1050	1000		
27	482	397	507	1120	1810	1380	2130	1110	976	1740	1100	960		
28	475	377	507	1100	1760	1370	1990	1050	961	1780	1050	910		
29	482	370	552	1080	---	1330	2000	1000	1020	2040	1000	865		
30	475	370	608	1050	---	1340	2010	1150	1020	2410	960	780		
31	456	---	799	1030	---	1290	---	1100	---	2580	910	---		
TOTAL	13543	12571	14919	39562	77890	53810	36900	31747	27335	35978	53739	36925		
MEAN	437	419	481	1276	2782	1736	1230	1024	911	1161	1734	1231		
MAX	514	449	799	1660	5260	2790	2160	1830	1300	2580	2670	2010		
MIN	403	370	390	865	1000	1240	875	764	737	694	910	780		
CFSM	.56	.54	.62	1.63	3.56	2.22	1.58	1.31	1.17	1.49	2.22	1.58		
IN.	.65	.60	.71	1.88	3.71	2.56	1.76	1.51	1.30	1.71	2.56	1.76		
AC-FT	26860	24930	29590	78470	154500	106700	73190	62970	54220	71360	106600	73240		
CAL YR 1981	TOTAL	268050	MEAN	734	MAX	2000	MIN	370	CFSM	.94	IN	12.77	AC-FT	531700
WTR YR 1982	TOTAL	434919	MEAN	1192	MAX	5260	MIN	370	CFSM	1.53	IN	20.72	AC-FT	862700

02359000 CHIPOLA RIVER NEAR ALTHA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1962 to June 1972, October 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

		STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
NOV 23...	1430	403	228	7.8	15.0	.70	9.3	K7	52	114	14	36
JAN 29...	1755	1070	178	7.7	13.0	3.6	9.9	38	51	81	7	27
MAR 31...	1520	1280	190	7.9	17.5	4.9	8.6	45	120	89	4	30
MAY 26...	1435	1090	200	8.0	23.0	4.5	7.6	110	20	94	4	32
JUL 30...	1830	2480	128	7.6	24.5	13	6.2	K340	K920	58	3	19
SEP 09...	0625	1120	192	7.8	23.0	4.6	7.0	52	150	89	6	30
DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
NOV 23...	5.8	3.6	6	.2	.4	100	3.1	2.8	4.7	.1	7.4	129
JAN 29...	3.2	4.0	0	.2	.7	74	2.9	3.4	7.1	.2	5.9	106
MAR 31...	3.3	3.3	7	.2	.5	85	2.1	3.0	6.4	.1	5.3	139
MAY 26...	3.5	2.7	6	.1	.4	90	1.7	6.0	6.4	.1	6.1	114
JUL 30...	2.5	2.6	9	.2	.6	55	2.7	3.0	4.4	<.1	5.7	92
SEP 09...	3.4	3.0	7	.1	.6	83	2.5	3.0	6.2	<.1	7.1	118
DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
NOV 23...	121	.18	140	.76	.060	.08	.13	.050	.15	<.010	.020	.06
JAN 29...	96	.14	306	.55	.060	.08	.44	.030	.09	.020	.010	.03
MAR 31...	103	.19	480	.66	.060	.08	.37	.030	.09	.030	.020	.06
MAY 26...	111	.16	336	.67	.070	.09	.50	.040	.12	.020	.010	.03
JUL 30...	71	.13	616	.41	.110	.14	.30	.060	.18	.030	.010	.03
SEP 09...	103	.16	357	.61	.040	.05	--	.030	.09	.020	.010	.03

02359000 CHIPOLA RIVER NEAR ALTHA, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

[illegible]

02359000 CHIPOLA RIVER NEAR ALTHA, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL (UG/L)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ETHION, TOTAL (UG/L)
NOV 23...	--	1.4	--	.7	--	--	.1	--	<.1	--	<.1	--
JAN 29...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 31...	<.01	--	<.01	--	<.01	<.01	--	<.01	--	<.01	--	<.01
MAY 26...	<.01	.9	<.01	.3	.01	<.01	.3	<.01	<.1	<.01	<.1	<.01
JUL 30...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 09...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL (UG/L)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)
NOV 23...	--	<.1	--	<.1	--	--	<.1	--	--	<.1	--	--
JAN 29...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 31...	<.01	--	<.01	--	<.01	<.01	--	<.01	<.01	--	<.01	<.01
MAY 26...	<.01	<.1	<.01	<.1	<.01	<.01	<.1	<.01	<.01	<.1	<.01	<.01
JUL 30...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 09...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PARA- THION, TOTAL (UG/L)	PER- THANE TOTAL (UG/L)	PER- THANE IN BOTTOM MATERIAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)
NOV 23...	--	--	<.10	--	<1.0	--	--	--	--
JAN 29...	--	--	--	--	--	--	--	--	--
MAR 31...	<.01	<.10	--	<1	--	<.01	<.01	<.01	<.01
MAY 26...	<.01	<.10	<1.00	<1	<10	<.01	<.01	<.01	<.01
JUL 30...	--	--	--	--	--	--	--	--	--
SEP 09...	--	--	--	--	--	--	--	--	--

DATE	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	SILVEX, TOTAL (UG/L)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. & FINER THAN .062 MM
NOV 23...	<.1	--	7	7.6	43
JAN 29...	--	--	8	23	50
MAR 31...	--	<.01	11	38	55
MAY 26...	<.1	<.01	14	41	64
JUL 30...	--	--	20	134	50
SEP 09...	--	--	11	33	73

APALACHICOLA RIVER BASIN

02359035 FOURMILE CREEK AT CLARKSVILLE, FL

LOCATION.--Lat 30°26'41", long 85°10'59", in NW¼ sec.31, T.1 N., R.9 W., Calhoun County, Hydrologic Unit 03130012, near left bank on downstream side of bridge on State Highway 73, 0.6 mi (1.0 km) north of Clarksville, and 1.5 m (2.4 km) upstream from mouth.

DRAINAGE AREA.--36.0 mi² (93.2 km²).

PERIOD OF RECORD.--

DISCHARGE: January 1980 to current year (gage heights and discharge measurements only).

WATER TEMPERATURE: January 1980 to current year.

GAGE.--Nonrecording gage and crest-stage gage. Datum of gage is 36.88 ft (11.241 m) National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum measured, 163 ft³/s (4.62 m³/s) Apr. 10, 1980, gage height, 3.46 ft (1.055 m); minimum measured, 25 ft³/s (0.71 m³/s) Oct. 23, 1981, gage height, 0.78 ft (0.238 m).

WATER TEMPERATURE: Maximum observed, 18.0°C June 17, 1982; minimum observed, 4.0°C Dec. 21, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 12, 1980, reached a stage of 7.96 ft (2.426 m) present datum, from floodmarks, discharge not determined.

DISCHARGE MEASUREMENTS AND WATER TEMPERATURES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)
OCT					APR				
23...	0910	.78	25	16.5	07...	1035	1.08	37	15.0
DEC					JUN				
21...	1205	.96	33	4.0	17...	1450	1.08	44	18.0
FEB									
09...	1205	1.42	59	14.5					

02359101 CHIPOLA RIVER AT DEAD LAKE OUTLET NR WEWAHITCHKA, FL

LOCATION.--Lat 30°37'38", long 85°10'39", in NE¼ sec.19, T.4 S., R.9 W., Gulf County, Hydrologic Unit 03130012 on upstream side of bridge on county road 22A, 50 ft upstream from sheet pile wier, 1.7 mi (2.7 km) northeast of Wewahitchka.

DRAINAGE AREA.--1205 mi² (3121 km²).

PERIOD OF RECORD.--

DISCHARGE: March 1980 to current year (gage heights and discharge measurements only).

GAGE.--Water-stage recorder and sheet pile weir control. Datum of gage is 11.02 ft (3.359 m) National Vertical Datum of 1929 (Florida Department of Transportation bench mark).

REMARKS.--Indeterminate amount of flow from Apalachicola River enters Dead Lake during extreme high stages. Outflow from lake is controlled by four vertical lift gages installed July 5, 1974. A lowhead interlocking sheet pile weir is at elevation 7.18 ft (2.19 m) at outlet of lake above the Chipola cutoff.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum measured, 8,750 ft³/s, (248 m³/s) Mar. 18, 1980; maximum gage height, 23.38 ft (7.126 m) Apr. 4, 1980; minimum measured, 689 ft³/s (19.5 m³/s) June 17, 1982; minimum gage height, 14.04 ft (4.279 m) Jan. 20, 1981.

DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Time	Gage Height (ft, NGVD)	Discharge (ft ³ /s)	Date	Time	Gage Height (ft, NGVD)	Discharge (ft ³ /s)
Oct. 22	1640	17.74	1,330	June 17	1150	15.84	689
Feb. 12	1215	21.50	4,940	Aug. 6	1200	19.40	4,720
Apr. 7	0810	17.47	692				

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.20	6.11	3.10	4.58	6.73	8.49	7.19	8.97	5.88	5.86	8.62	7.06
2	7.20	6.32	3.22	5.30	6.63	8.10	7.07	9.12	5.91	5.90	8.61	6.89
3	7.18	6.53	3.23	6.05	6.72	7.83	6.95	9.05	5.90	5.84	8.55	6.79
4	7.17	6.72	3.23	6.71	7.09	7.69	6.83	8.83	5.91	5.75	8.49	6.74
5	7.17	6.77	3.21	7.18	7.57	7.69	6.67	8.52	5.95	5.66	8.43	6.65
6	7.18	6.36	3.18	7.54	8.18	7.78	6.58	8.23	5.93	5.61	8.37	6.53
7	7.18	5.93	3.16	7.84	8.98	7.89	6.41	7.96	5.84	5.53	8.37	6.42
8	7.18	5.55	3.15	8.11	9.84	7.92	6.58	7.69	5.70	5.49	8.45	6.31
9	7.17	5.21	3.14	8.26	10.47	7.90	7.14	7.40	5.54	5.46	8.45	6.28
10	7.18	5.03	3.11	8.38	10.75	7.93	7.46	7.18	5.36	5.43	8.17	6.36
11	7.19	4.84	3.07	8.44	10.69	8.09	7.76	6.99	5.21	5.40	7.89	6.47
12	7.18	4.62	3.09	8.44	10.50	8.31	7.98	6.83	5.21	5.44	7.72	6.68
13	7.18	4.43	3.13	8.44	10.29	8.52	8.06	6.68	5.22	5.48	7.79	6.93
14	7.17	4.24	3.20	8.51	10.09	8.60	7.96	6.53	5.10	5.55	8.03	7.17
15	7.16	4.07	3.41	8.53	9.92	8.48	7.77	6.42	4.94	5.72	8.18	7.29
16	7.15	3.92	3.53	8.54	9.78	8.22	7.55	6.37	4.81	5.92	8.16	7.32
17	7.14	3.81	3.58	8.50	9.70	7.94	7.39	6.28	4.88	6.14	7.99	7.29
18	7.14	3.70	3.62	8.43	9.64	7.69	7.28	6.15	5.09	6.28	7.84	7.22
19	7.14	3.59	3.60	8.39	9.63	7.51	7.12	6.02	5.11	6.37	7.75	7.14
20	7.12	3.53	3.56	8.33	9.63	7.43	6.98	5.85	5.09	6.46	7.65	7.03
21	7.00	3.45	3.54	8.19	9.64	7.36	6.85	5.69	5.08	6.55	7.59	6.93
22	6.76	3.37	3.51	8.01	9.63	7.29	6.79	5.54	5.08	6.73	7.61	6.81
23	6.45	3.31	3.50	7.84	9.59	7.19	6.85	5.41	5.07	6.94	7.75	6.65
24	6.11	3.28	3.50	7.69	9.51	7.35	7.00	5.31	5.08	7.24	7.87	6.49
25	5.84	3.24	3.49	7.49	9.41	7.56	7.21	5.29	5.09	7.60	7.91	6.35
26	5.65	3.20	3.47	7.32	9.25	7.69	7.48	5.41	5.08	7.80	7.85	6.20
27	5.46	3.17	3.47	7.16	9.11	7.72	7.80	5.58	5.14	7.77	7.76	6.05
28	5.26	3.16	3.47	7.06	8.85	7.71	8.15	5.69	5.33	7.77	7.63	5.93
29	5.37	3.14	3.53	6.97	---	7.59	8.45	5.76	5.50	8.01	7.47	5.81
30	5.64	3.09	3.61	6.88	---	7.41	8.71	5.79	5.66	8.23	7.35	5.69
31	5.89	---	3.93	6.79	---	7.29	---	5.82	---	8.51	7.20	---
TOTAL	208.81	133.69	104.54	235.90	257.82	242.17	220.02	208.36	160.69	198.44	247.50	199.48
MEAN	6.74	4.46	3.37	7.61	9.21	7.81	7.33	6.72	5.36	6.40	7.98	6.65
MAX	7.20	6.77	3.93	8.54	10.75	8.60	8.71	9.12	5.95	8.51	8.62	7.32
MIN	5.26	3.09	3.07	4.58	6.63	7.19	6.41	5.29	4.81	5.40	7.20	5.69

CAL YR 1981 TOTAL 2448.70 MEAN 6.71 MAX 9.48 MIN 3.07
WTR YR 1982 TOTAL 2417.42 MEAN 6.62 MAX 10.75 MIN 3.07

02359170 APALACHICOLA RIVER NEAR SUMATRA, FL

LOCATION.--Lat 29°56'57", Long 85°00'56", in SW¼ sec.14, T.6 S., R.8 W., Franklin County, Hydrologic Unit 03130011, on left bank at Brickyard Landing, 2.4 mi (3.9 km) west of Fort Gadsden, 5.3 mi (8.5 km) southwest of Sumatra, and 20.6 mi (33.1 km) upstream from mouth.

DRAINAGE AREA.--19,200 mi² (49,700 km²) approximately.

PERIOD OF RECORD.--September 1977 to current year.

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

REMARKS.--Records good except those for periods of no gage-height record, Nov. 2, to Jan. 20, which are poor. Flow generally affected by tide when discharge is less than 15,000 ft³/s (425 m³/s).

AVERAGE DISCHARGE.--5 years, 27,220 ft³/s (770.9 m³/s).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 172,000 ft³/s (4,870 m³/s) Feb. 2, 1978, gage height, 12.92 ft (3.938 m) estimated from Corps of Engineers flood profile, extended above 103,000 ft³/s (2,920 m³/s); minimum daily, 5,800 ft³/s (164 m³/s) Nov. 4, 5, 1981, estimated; minimum recorded gage height, 1.11 ft (0.338 m) Dec. 5, 1981.

EXTREMES FOR CURRENT PERIOD.--Maximum discharge, 77,000 ft³/s (2,180 m³/s) Feb. 11, gage height, 9.30 ft (2.835 m); minimum daily, 5,800 ft³/s (164 m³/s), Nov. 4, 5, estimated; minimum recorded gage height, 1.11 ft (0.338 m) Dec. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	8440	5970	6600	18500	25800	43600	26500	46800	23500	16400	36800	21400		
2	8320	5950	7000	22500	25200	39500	24200	49300	23900	16200	36900	18400		
3	8320	5900	7400	26500	26400	36300	21600	50500	24200	15700	36500	17500		
4	8210	5800	6200	30000	29200	34600	19600	49300	25200	15000	36700	17500		
5	8210	5800	5930	35000	32500	35100	19200	46500	25800	14400	37400	17100		
6	8210	6400	5900	39000	38000	36300	18500	43800	25300	14000	38200	17200		
7	8140	6800	5900	42000	43500	36500	18100	41700	24200	14000	39200	16600		
8	7900	7000	7600	44000	51300	35900	25700	39700	22200	14700	39700	15500		
9	7700	6600	9800	44000	62800	35200	32000	36400	20000	15300	39200	16000		
10	7600	6400	12000	44000	73400	35200	33600	33000	17900	15100	37400	18000		
11	7500	6800	14500	43000	76800	36100	36500	29900	16100	14800	35000	19900		
12	7300	7300	13500	42000	74200	37900	37100	28100	19100	14700	33000	21100		
13	7200	7200	12500	41000	69400	40000	38900	27000	21900	14300	32600	21000		
14	7010	7200	11000	41000	62800	41200	39900	25900	19500	14000	33600	21500		
15	6870	7100	12500	40000	59000	41100	38700	25500	16200	13600	34700	21600		
16	6980	7000	14000	40000	57300	39300	36700	26700	14700	13600	35000	20900		
17	7240	6800	14000	40000	56200	36800	34600	27400	15000	14600	35100	19800		
18	7500	6800	12500	40500	53700	34200	32900	25800	17400	16600	34700	20200		
19	7160	6800	11000	41000	51900	32500	30800	23500	16800	17700	33400	21400		
20	7120	6800	10000	42000	51400	31800	28400	21300	15800	19300	33200	20600		
21	7440	6600	10000	41200	52100	31500	26700	19600	15400	22900	33200	20300		
22	7680	6600	10500	39500	52400	30800	26400	17700	18800	25700	32700	19400		
23	7800	6600	10800	38100	52100	28300	28400	16500	18200	28100	31800	17800		
24	7700	6600	11000	37000	51100	31200	31200	15900	17000	30500	31200	17000		
25	8390	6500	11500	35100	50400	34000	33900	15600	16400	31900	31100	16700		
26	8920	6400	12000	32500	49400	35000	36700	16200	16600	33000	30900	15600		
27	7940	6400	12500	29800	48700	35400	37600	17700	17500	32900	31200	14900		
28	7340	6400	12500	28300	46900	35500	39100	19500	18300	33000	31000	14000		
29	6780	6400	13000	27600	---	34500	41500	21000	17300	34700	30100	13600		
30	6480	6400	14000	27400	---	32000	44100	22400	16500	35800	28300	13200		
31	6250	---	15000	27000	---	29300	---	23000	---	36300	25000	---		
TOTAL	235650	197320	332630	1119500	1423900	1096600	939100	903200	576700	648800	1054800	545700		
MEAN	7602	6577	10730	36110	50850	35370	31300	29140	19220	20930	34030	18190		
MAX	8920	7300	15000	44000	76800	43600	44100	50500	25800	36300	39700	21600		
MIN	6250	5800	5900	18500	25200	28300	18100	15600	14700	13600	25000	13200		
CFSM	.40	.34	.56	1.88	2.65	1.84	1.63	1.52	1.00	1.09	1.77	.95		
IN.	.46	.38	.64	2.17	2.76	2.12	1.82	1.75	1.12	1.26	2.04	1.06		
AC-FT	467400	391400	659800	2221000	2824000	2175000	1863000	1791000	1144000	1287000	2092000	1082000		
CAL YR 1981	TOTAL	4915170	MEAN	13470	MAX	57300	MIN	5800	CFSM	.70	IN	9.52	AC-FT	9749000
WTR YR 1982	TOTAL	9073900	MEAN	24860	MAX	76800	MIN	5800	CFSM	1.30	IN	17.58	AC-FT	18000000

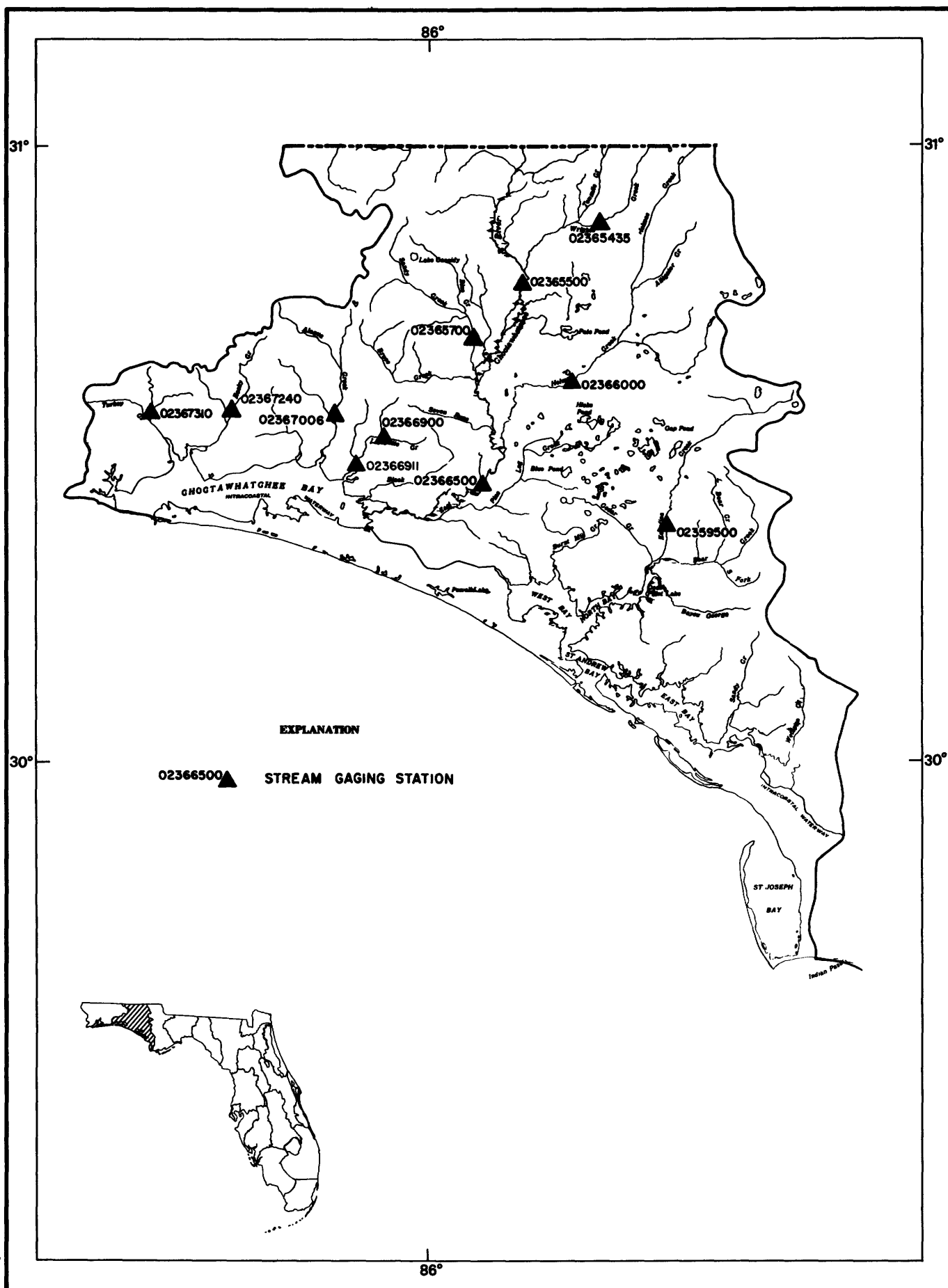


Figure 8. Location of stream gaging stations in the Pea River basin, Choctawhatchee River below Pea River, and inflow to and coastal areas for St. Andrews and Choctawhatchee Bays.

ECONFINA CREEK BASIN

02359500 ECONFINA CREEK NEAR BENNETT, FL
(National stream-quality accounting network station)

LOCATION.--Lat 30°23'04", long 85°33'24", in SE¼ sec.20, T.1 S., R.13 W., Bay County, Hydrologic Unit 03140101, near center of span on downstream side of bridge on State Highway 388, 0.5 mi (0.8 km) downstream from Old Mill Branch, 1.6 mi (2.6 km) southwest of Bennett, and 11 mi (18 km) upstream from mouth.

DRAINAGE AREA.--122 mi² (316 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1935 to current year. Monthly discharge only for October and November 1936, published in WSP 1304.

REVISED RECORDS.--WSP 872: 1937. WSP 1906: Drainage area. WRD FL-80-4: 1979.

GAGE.--Water-stage recorder. Datum of gage is 1.03 ft (0.314 m) National Geodetic Vertical Datum of 1929. Prior to Jan. 29, 1962, nonrecording gage and Jan. 30, 1962 to June 16, 1966, water-stage recorder at site 150 ft (46 m) downstream at present datum. June 17, 1966 to Sept. 28, 1966, nonrecording gage at present site and datum.

REMARKS.--Records good. Flow includes large ground-water inflow.

AVERAGE DISCHARGE.--47 years, 532 ft³/s (15.07 m³/s); 59.22 in/yr (1,504 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,860 ft³/s (138 m³/s) Apr. 2, 1948, gage height, 12.46 ft (3.798 m) observed, from rating curve extended above 2,200 ft³/s (62.3 m³/s); minimum, 307 ft³/s (8.69 m³/s) Jan. 9, 1956, gage height, 4.10 ft (1.250 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since September 1926, 15.0 ft (4.57 m) present datum, from floodmark, discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 981 ft³/s (27.8 m³/s) at 1500, July 30, gage height, 7.85 ft (2.393 m), no peak above base of 1,000 ft³/s (28.3 m³/s); minimum, 348 ft³/s (9.86 m³/s) June 16, 17, gage height, 5.19 ft (1.582 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	380	371	375	512	404	451	419	399	372	430	744	466
2	380	369	397	477	408	432	415	395	373	404	693	460
3	376	368	400	436	544	422	413	393	372	390	591	458
4	374	368	381	459	662	417	408	387	367	390	520	468
5	374	367	372	487	603	413	408	384	362	406	490	476
6	374	368	368	455	488	441	404	382	358	432	494	476
7	370	368	367	424	451	549	404	381	353	424	533	466
8	370	365	365	428	435	551	443	389	352	413	647	458
9	372	364	363	432	441	488	468	381	352	437	639	470
10	374	381	361	412	468	456	503	378	350	496	570	525
11	370	398	362	398	486	443	538	375	350	525	644	622
12	366	411	374	394	482	437	488	372	361	482	782	698
13	362	389	389	420	511	432	449	370	361	533	771	733
14	358	381	401	522	480	426	433	369	356	451	670	777
15	358	372	427	533	460	424	424	367	353	432	647	652
16	358	370	433	475	464	424	417	365	349	432	565	563
17	357	370	401	444	522	422	411	365	381	424	570	514
18	358	370	384	434	520	419	409	364	424	420	706	518
19	359	368	377	420	470	417	406	365	395	428	677	563
20	358	370	373	411	445	415	409	372	373	424	612	503
21	356	370	371	407	432	411	419	376	365	466	581	494
22	357	370	370	399	426	408	417	369	367	474	596	486
23	358	367	370	399	419	408	404	370	420	484	556	476
24	359	372	367	403	417	480	397	373	454	625	542	468
25	368	370	368	402	415	492	437	382	433	639	531	464
26	430	366	376	393	409	498	554	428	439	542	507	462
27	452	367	376	387	439	468	560	445	435	496	494	460
28	413	367	398	384	468	447	460	397	476	547	486	456
29	388	364	405	382	---	433	422	379	472	625	482	452
30	380	364	425	380	---	428	406	382	458	909	505	447
31	375	---	459	390	---	422	---	376	---	869	482	---
TOTAL	11584	11165	11955	13299	13169	13774	13145	11830	11633	15449	18327	15531
MEAN	374	372	386	429	470	444	438	382	388	498	591	518
MAX	452	411	459	533	662	551	560	445	476	909	782	777
MIN	356	364	361	380	404	408	397	364	349	390	482	447
CFSM	3.07	3.05	3.16	3.52	3.85	3.64	3.59	3.13	3.18	4.08	4.84	4.25
IN.	3.53	3.40	3.65	4.06	4.02	4.20	4.01	3.61	3.55	4.71	5.59	4.74
AC-FT	22980	22150	23710	26380	26120	27320	26070	23460	23070	30640	36350	30810
CAL YR 1981	TOTAL	167471	MEAN 459	MAX 1000	MIN 356	CFSM 3.76	IN 51.06	AC-FT 332200				
WTR YR 1982	TOTAL	160861	MEAN 441	MAX 909	MIN 349	CFSM 3.62	IN 49.05	AC-FT 319100				

02359500 ECONFINA CREEK NEAR BENNETT, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1961 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
NOV 23...	1700	364	109	7.3	19.0	.60	7.0	46	120	46	0	15
JAN 29...	0930	380	110	7.0	18.5	.70	7.4	58	46	44	3	14
MAR 26...	1000	505	88	7.8	19.0	1.4	6.8	K270	K230	40	1	13
MAY 27...	1000	449	86	7.7	21.5	1.2	6.3	K75	48	37	1	12
JUL 22...	1140	472	92	7.8	22.0	1.5	6.3	K75	K80	42	2	14
SEP 07...	1545	462	97	--	22.0	1.0	6.3	110	120	44	2	14
DATE		MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
NOV 23...		2.1	1.2	5	.1	.2	46	4.5	3.1	2.6	<.1	4.6
JAN 29...		2.2	1.3	6	.1	.4	41	7.9	2.7	2.5	<.1	4.5
MAR 26...		1.9	1.5	--	.1	<.1	39	1.2	2.0	1.8	<.1	4.4
MAY 27...		1.8	1.4	8	.1	.1	36	1.4	4.0	2.5	<.1	4.7
JUL 22...		1.8	1.4	--	.1	<.1	40	1.2	3.0	1.4	<.1	4.9
SEP 07...		2.2	1.5	--	.1	<.1	42	--	3.0	2.6	<.1	4.9
DATE		SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
NOV 23...		66	56	.09	64.9	.13	.030	.04	<.10	.010	.03	.020
JAN 29...		58	52	.08	59.5	.13	.030	.04	.19	.030	.09	.010
MAR 26...		56	48	.08	76.4	.07	.050	.06	.24	.020	.06	<.010
MAY 27...		67	48	.09	81.2	.23	.090	.12	.30	.040	.12	.020
JUL 22...		60	51	.08	76.5	.12	.080	.10	.60	.020	.06	.010
SEP 07...		53	54	.07	66.1	.11	.030	.04	.80	.020	.06	.010
DATE		PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDE RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
NOV 23...		.010	.03	1	0	1	100	90	9	<1	<1	10
JAN 29...		<.010	--	1	0	1	<100	--	<2	<1	<1	<10
MAR 26...		<.010	--	--	--	--	--	--	--	--	--	--
MAY 27...		.020	.06	1	0	1	<100	--	9	1	<1	10
JUL 22...		<.010	--	--	--	--	--	--	--	--	--	--
SEP 07...		<.010	--	1	0	1	<100	--	10	1	<1	10

ECONFINA CREEK BASIN

02359500 ECONFINA CREEK NEAR BENNETT, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	CHROMIUM, SUS- PENDE D RECOV. (UG/L AS CR)	CHROMIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDE D RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE D RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE D RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)
NOV 23...	--	<10	<1	--	<1	6	--	<1	80	70	6
JAN 29...	--	<10	<1	--	<1	6	0	12	80	--	<3
MAR 26...	--	--	--	--	--	--	--	--	--	--	--
MAY 27...	0	10	1	0	4	4	3	1	150	70	77
JUL 22...	--	--	--	--	--	--	--	--	--	--	--
SEP 07...	0	10	4	--	<1	3	2	1	180	140	42

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE D RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGANESE, SUS- PENDE D RECOV- ERABLE (UG/L AS MN)	MANGANESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY SUS- PENDE D RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE D RECOV- ERABLE (UG/L AS NI)
NOV 23...	2	--	<1	<10	--	1	<.1	--	<.1	1	--
JAN 29...	<1	--	<1	<10	--	<1	.1	.0	.1	<1	--
MAR 26...	--	--	--	--	--	--	--	--	--	--	--
MAY 27...	5	2	3	<10	--	2	<.1	--	<.1	1	0
JUL 22...	--	--	--	--	--	--	--	--	--	--	--
SEP 07...	3	2	1	10	8	2	<.1	--	<.1	2	0

DATE	NICKEL, DIS- SOLVED (UG/L AS NI)	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE D RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	SEDI- MENT, SUS- PENDE D (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE D (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 23...	<1	<1	<1	<1	<1	30	--	<4	4	3.9	25
JAN 29...	<1	<1	<1	<1	<1	40	30	9	4	4.1	25
MAR 26...	--	--	--	--	--	--	--	--	5	6.8	40
MAY 27...	2	<1	<1	<1	<1	<10	--	<3	5	6.1	40
JUL 22...	--	--	--	--	--	--	--	--	3	3.8	33
SEP 07...	2	<1	<1	<1	<1	120	--	<4	7	8.7	29

02365435 WRIGHTS CREEK NEAR BONIFAY, FL

LOCATION.--Lat 30°51'56", long 85°41'41", in SW¼ sec.1, T.5 N, R.15 W., Holmes County, Hydrologic Unit 03140203, on left bank on downstream side of bridge on State Highway 177, 2.5 mi (4.0 km) upstream from Tenmile Creek, 4.9 mi (7.9 km) North of Bonifay, and 14.5 mi (23.3 km) upstream from mouth.

PERIOD OF RECORD.--

DISCHARGE: June 1966, May 1967 (discharge measurements only); November 1979 to current year (gage height and discharge measurements only.)

WATER TEMPERATURE: Records of periodic water temperature observations prior to November 1979 are available in files of the Geological Survey.

GAGE.--Nonrecording gage and crest-stage gage. Altitude of gage is 100 ft (30 m), from topographic map.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum measured, 432 ft³/s (12.2 m³/s) Apr. 7, 1980, gage height, 6.85 ft (2.088 m); minimum measured, 11 ft³/s (0.31 m³/s) Oct. 19, 1981, gage height, 2.35 ft (0.716 m).

WATER TEMPERATURE: Maximum observed, 24.5°C May 15, 1967; minimum observed, 9.5°C Dec. 22, 1981.

DISCHARGE MEASUREMENTS AND WATER TEMPERATURES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)
OCT 19...	0940	2.35	11	18.0	APR 05...	1245	3.28	47	18.0
DEC 22...	1445	2.70	24	9.5	JUN 14...	1355	3.05	39	23.5
FEB 11...	1200	6.26	284	13.0	AUG 03...	0950	5.36	184	24.0

CHOCTAWHATCHEE RIVER BASIN

02365500 CHOCTAWHATCHEE RIVER AT CARYVILLE, FL

LOCATION.--Lat 30°46'32", long 85°49'40", in NW¼ sec.10, T.4 N., R.16 W., Holmes County, Hydrologic Unit 03140203, near right bank on downstream side of bridge on U.S. Highway 90, 300 ft (91 m) downstream from Louisville and Nashville Railroad bridge, 0.8 mi (1.3 km) west of Caryville, 1.8 m (2.9 km) downstream from Wrights Creek; and 64 mi (102 km) upstream from mouth.

DRAINAGE AREA.--3,499 mi² (9,062 km²).

PERIOD OF RECORD.--August 1929 to current year. Gage-height records collected at same site from 1928 to August 1929 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 39.02 ft (11.893 m) National Geodetic Vertical Datum of 1929. Aug. 17 to Oct. 11, 1929, nonrecording gage at same site and datum; Oct. 12, 1929 to Sept. 11, 1951, water-stage recorder at same site and datum; Sept. 12, 1951 to Aug. 11, 1976, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--53 years, 5,484 ft³/s (155.3 m³/s), 21.28 in/yr (541 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 88,000 ft³/s (2,490 m³/s) Apr. 13, 1975, gage height, 18.39 ft (5.605 m); minimum, 604 ft³/s (17.1 m³/s) Sept. 15, 1968; minimum gage height, -0.82 ft (-0.250 m) Sept. 6, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1850 (from information furnished by Corps of Engineers, Mobile District) 27.1 ft (8.26 m) Mar. 17, 1929, from National Weather Service records and floodmarks; discharge, 206,000 ft³/s (5,830 m³/s) from rating curve extended above 85,000 ft³/s (2,410 m³/s) on basis of slope-area determination of peak flow.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 31,500 ft³/s (892 m³/s), estimated, Feb. 6, gage height, 13.95 ft (4.252 m) estimated; minimum discharge, 784 ft³/s (22.2 m³/s) Oct. 8, 9, gage height, 0.32 ft (0.098 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	841	1560	1270	9610	4090	7620	4800	7380	2210	3130	4900	1640		
2	832	1410	1450	10800	4620	7820	4630	6110	2310	3230	5380	1560		
3	820	1320	1880	11800	7240	7400	4450	5370	2160	2990	5710	1500		
4	805	1260	2050	12400	18200	6810	4250	4830	2010	2450	5590	1480		
5	793	1210	1880	11700	28500	6390	4060	4250	1870	2000	4690	2180		
6	789	1170	1700	12100	31500	6570	3930	3680	2040	1740	4080	2830		
7	786	1140	1580	13300	28500	8270	4240	3260	2090	1610	3780	2610		
8	786	1110	1470	12900	26000	11800	4420	3100	1830	1540	3860	2250		
9	784	1080	1390	11600	23000	15900	4490	3840	1640	1490	4400	1980		
10	829	1090	1340	11700	20000	18900	4770	4500	1520	1430	4560	1920		
11	868	1140	1300	12200	17000	18400	5230	4270	1430	1530	4270	2270		
12	907	1290	1290	11200	13600	15400	5110	4460	1390	2000	4530	2820		
13	922	1620	1300	8950	12900	12100	4500	4570	1390	2800	5320	3070		
14	922	1820	1540	7830	14600	9750	3950	4340	1750	3170	6130	3190		
15	915	1830	2100	8550	18200	8200	3560	3770	2100	2790	6270	3120		
16	890	1680	3200	10000	19800	7190	3360	3150	1870	2400	5560	3050		
17	866	1510	3950	11000	18200	6540	3220	2680	1670	2500	5190	2910		
18	853	1420	3790	10500	17400	6150	3090	2410	1720	3270	4620	2450		
19	841	1360	3360	8990	18900	5830	2990	2240	1850	3150	3940	2120		
20	844	1310	3060	7550	19900	5570	3100	2130	1810	2910	3770	1930		
21	868	1290	2650	6620	18600	5340	4100	2160	1570	2790	3680	1840		
22	878	1310	2310	6050	16000	5180	6410	2230	1420	3360	3320	1770		
23	873	1340	2120	5580	13400	5090	8690	2230	1590	3990	3130	1690		
24	883	1320	2010	5250	11100	5290	10400	2310	2190	4750	2930	1580		
25	955	1300	1980	5260	9530	5760	10500	2580	1850	6140	2670	1500		
26	1130	1300	2150	5260	8150	6220	9260	2620	1580	6510	2490	1440		
27	2010	1290	2800	4930	7320	6880	9060	2690	1580	6370	2270	1400		
28	2630	1280	3390	4560	7170	7090	10300	3140	1860	5600	2080	1370		
29	2430	1270	4300	4270	---	6480	10700	3220	2610	4270	1960	1350		
30	2100	1260	6090	4110	---	5610	9360	2640	2920	3560	1910	1320		
31	1790	---	7970	4020	---	5080	---	2300	---	4060	1760	---		
TOTAL	33440	40290	78670	270590	453420	256630	170930	108460	55830	99530	124750	62140		
MEAN	1079	1343	2538	8729	16190	8278	5698	3499	1861	3211	4024	2071		
MAX	2630	1830	7970	13300	31500	18900	10700	7380	2920	6510	6270	3190		
MIN	784	1080	1270	4020	4090	5080	2990	2130	1390	1430	1760	1320		
CFSM	.31	.38	.73	2.50	4.63	2.37	1.63	1.00	.53	.92	1.15	.59		
IN.	.36	.43	.84	2.88	4.82	2.73	1.82	1.15	.59	1.06	1.33	.66		
AC-FT	66330	79920	156000	536700	899400	509000	339000	215100	110700	197400	247400	123300		
CAL YR 1981	TOTAL	1086332	MEAN	2976	MAX	32300	MIN	784	CFSM	.85	IN	11.55	AC-FT	2155000
WTR YR 1982	TOTAL	1754680	MEAN	4807	MAX	31500	MIN	784	CFSM	1.37	IN	18.66	AC-FT	3480000

02365700 SANDY CREEK AT PONCE DE LEON, FL

LOCATION.--Lat 30°43'38", long 85°56'12", in SE¼ sec.28, T.4 N., R.17 W., Holmes County, Hydrologic Unit 03140203, at left bank on downstream side of abandoned bridge on old State Highway 81 in Ponce de Leon, 0.1 mi (0.2 km) upstream from Blue Creek, 0.4 mi (0.6 km) upstream from Mill Creek, and 10 mi (16 km) from mouth.

DRAINAGE AREA.--80.7 mi² (209 km²), approximately.

PERIOD OF RECORD.--

DISCHARGE: January 1961 to September 1979 (annual maximum and discharge measurements); October 1979 to current year (annual maximum and six discharge measurements each water year).

WATER TEMPERATURE: October 1979 to current year. Records of periodic water temperature observations prior to October 1979 are available in files of the Geological Survey.

REVISED RECORDS.--WDR FL-76-4: drainage area.

GAGE.--Nonrecording gage and crest-stage gage. Datum of gage is 42.94 ft (13.088 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Prior to October 1975, records included flow of Blue and Mill Creek.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: (1962-75) Maximum discharge, 11,200 ft³/s (317 m³/s) July 31, 1975, gage height, 15.23 ft (4.642 m), includes that of Blue and Mill Creeks; (1976-82) Maximum discharge, 5,890 ft³/s (167 m³/s) Feb. 24, 1979, gage height, 13.89 ft (4.234 m); minimum measured, 5.6 ft³/s (0.16 m³/s) Oct. 20, 1981, gage height, 1.05 ft (0.320 m).

WATER TEMPERATURE: Maximum observed, 30°C June 4, 1968; minimum observed, 6.0°C Feb. 2, 1977.

EXTREMES OUTSIDE OF PERIOD OF RECORD.--Flood of March 1929, reached a stage of about 17 ft (5 m) present datum, discharge not determined.

DISCHARGE MEASUREMENTS AND WATER TEMPERATURES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)
OCT					APR				
20...	1210	1.05	5.6	15.5	05...	1535	2.33	59	20.0
DEC					JUN				
22...	1650	1.71	23	8.5	15...	0930	1.67	30	24.5
FEB					AUG				
11...	1515	5.04	215	12.0	03...	1410	4.23	205	25.5

CHOCTAWHATCHEE RIVER BASIN

02366000 HOLMES CREEK AT VERNON, FL

LOCATION.-- Lat 30°37'35", long 85°42'45", in NE¼ sec.35, T.3 N., R.15 W., Washington County, Hydrologic Unit 03140203, near left bank on downstream side of bridge on State Highway 79 at Vernon, 0.2 mi (0.3 km) downstream from Pippin Mill Creek, and 25 mi (40 km) upstream from mouth.

DRAINAGE AREA.--386 mi² (1,000 km²).

PERIOD OF RECORD.--

DISCHARGE: April 1950 to May 1979; June 1979 to June 1981 (discharge measurements and fragmentary gage-height record); July 1981 to current year (gage heights and discharge measurements only).

WATER TEMPERATURE: October 1981 to September 1982. Records of periodic water temperature observations prior to October 1981 are available in files of the Geological Survey.

REVISED RECORDS.--WSP 1384: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is 10.70 ft (3.261 m) National Geodetic Vertical Datum of 1929.

AVERAGE DISCHARGE.--28 years (water years 1951-78), 677 ft³/s (19.17 m³/s), 23.82 in/yr (605 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum discharge, 10,900 ft³/s (309 m³/s) Apr. 4, 1960, gage height, 23.35 ft (7.117 m), from graph based on gage readings; minimum, 234 ft³/s (6.63 m³/s) July 8, 1955 and Oct. 21, 1981; minimum gage height observed, 10.15 ft (3.094 m) Nov. 1, 2, 1968.

WATER TEMPERATURE: Maximum observed, 26.5°C May 5, 1981; minimum observed, 9.5°C Feb. 3, 1978.

DISCHARGE MEASUREMENTS AND WATER TEMPERATURES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)
OCT					APR				
21...	0805	10.21	234	21.0	06...	1110	11.36	416	17.5
DEC					JUN				
22...	1320	10.31	249	19.0	15...	1530	12.29	573	21.0
FEB					AUG				
11...	0930	13.88	1070	13.5	04...	1210	15.12	2020	25.0

02366500 CHOCTAWHATCHEE RIVER NEAR BRUCE, FL
(National stream-quality accounting network station)

LOCATION.--Lat 30°27'03", long 85°53'54", in NE¼ sec.36, T.1 N., R.17 W., Walton County, Hydrologic Unit 03140203, on downstream fender pile at center swing pier of bridge on State Highway 20, 4.0 mi (6.4 km) southeast of Bruce, 5.8 mi (9.3 km) downstream from Holmes Creek, and 21 mi (34 km) upstream from mouth.

DRAINAGE AREA.--4,384 mi² (11,355 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1930 to current year.

REVISED RECORDS.--WSP 872: 1937. WSP 1384: Drainage area. WSP 1504: 1931-34.

GAGE.--Water-stage recorder. Datum of gage is 3.94 ft (1.201 m) National Geodetic Vertical Datum of 1929. Prior to Apr. 6, 1934, nonrecording gage at site 1.0 mi (1.6 km) downstream at datum 0.25 ft (0.076 m) lower.

REMARKS.--Records good.

AVERAGE DISCHARGE.--52 years, 7,144 ft³/s (202.3 m³/s), 22.13 in/yr (562 mm/yr). The figure published in the 1981 report was in error; the correct figure is 51 years, 7,168 ft³/s (203.0 m³/s) 22.21 in/yr (564 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 79,900 ft³/s (2,260 m³/s) Apr. 15, 1975, gage height, 17.54 ft (5.346 m); minimum, 1,290 ft³/s (36.5 m³/s) Oct. 27, 1968, gage height, -0.48 ft (-0.146 m).

EXTREMES OUTSIDE OF PERIOD OF RECORD.--Flood of March 1929 reached a stage of 25.0 ft (7.62 m) at former site and datum, from floodmarks, discharge, 220,000 ft³/s (6,230 m³/s), from rating curve extended above 80,000 ft³/s (2,266 m³/s) corrected, on basis of records for station at Caryville (02365500).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 32,700 ft³/s (926 m³/s) Feb. 8, gage height, 12.31 ft (3.752 m); minimum, 1,410 ft³/s (39.9 m³/s) Oct. 9, gage height, -0.06 ft (-0.018 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	1540	2570	1920	4650	5020	10100	7290	11100	3800	3700	9860	3220		
2	1540	2350	1990	5220	4850	9300	6850	11200	3490	3920	9520	3050		
3	1500	2180	2060	6010	5350	8860	6350	10500	3410	3950	9450	2930		
4	1480	2050	2270	7340	5980	8760	5920	9400	3340	3960	9550	2900		
5	1460	1970	2450	9000	7360	8730	5590	8190	3210	3840	9500	2820		
6	1450	1910	2480	10400	12900	8730	5350	7130	3050	3480	9130	3050		
7	1450	1820	2390	11400	25100	8730	5110	6310	2990	3090	8550	3540		
8	1430	1750	2300	11700	31600	8600	5000	5570	3040	2760	7900	3840		
9	1420	1720	2190	12100	32500	9050	5030	4930	2900	2640	7230	3890		
10	1430	1750	2080	12500	30600	10500	5220	4540	2680	2720	6650	3950		
11	1450	1760	1990	12400	27100	13600	5400	4520	2520	2930	6390	4020		
12	1460	1760	1940	12000	23200	17300	5510	4710	2440	2970	6430	4020		
13	1490	1830	2000	11900	19800	18900	5640	4870	2350	3370	6670	4110		
14	1510	2040	2060	12200	17300	17800	5740	4960	2360	3820	6840	4290		
15	1530	2250	2260	11900	15800	15600	5660	5040	2500	4210	6970	4600		
16	1540	2380	2520	11000	15500	13400	5360	5040	2800	4420	7530	4690		
17	1520	2410	2940	10100	17400	11500	4940	4820	3020	4420	7590	4650		
18	1520	2280	3370	9840	20000	10000	4590	4360	2930	4400	7810	4530		
19	1500	2170	3660	10200	20600	8930	4300	3970	2860	4370	7640	4270		
20	1450	2120	3800	10600	20200	8090	4130	3600	2870	4490	7210	3960		
21	1450	2010	3790	10600	20400	7440	4080	3360	2880	4540	6700	3660		
22	1480	1930	3650	9970	20900	6970	4200	3250	2730	4410	6140	3420		
23	1520	1910	3400	9100	20300	6630	4550	3330	2740	4360	5680	3200		
24	1510	1960	3090	8140	18500	6460	5170	3380	2690	4690	5390	3000		
25	1530	1960	2910	7280	16200	6300	6310	3560	2920	5010	5100	2860		
26	1710	1920	2760	6630	14200	6330	8580	3770	3090	5430	4770	2750		
27	1840	1920	2790	6090	12600	6360	10600	3870	2930	5870	4380	2650		
28	2150	1920	3050	5790	11300	6530	11400	3930	2850	6680	4060	2570		
29	2590	1900	3370	5620	---	6840	11200	4000	2900	7680	3760	2500		
30	2830	1880	3710	5400	---	7200	10900	4140	3240	8600	3530	2440		
31	2790	---	4150	5210	---	7440	---	4090	---	9700	3360	---		
TOTAL	51070	60380	85340	282290	492560	300980	185970	165440	87530	140430	211290	105380		
MEAN	1647	2013	2753	9106	17590	9709	6199	5337	2918	4530	6816	3513		
MAX	2830	2570	4150	12500	32500	18900	11400	11200	3800	9700	9860	4690		
MIN	1420	1720	1920	4650	4850	6300	4080	3250	2350	2640	3360	2440		
CFSM	.38	.46	.63	2.08	4.01	2.22	1.41	1.22	.67	1.03	1.56	.80		
IN.	.43	.51	.72	2.40	4.18	2.55	1.58	1.40	.74	1.19	1.79	.89		
AC-FT	101300	119800	169300	559900	977000	597000	368900	328200	173600	278500	419100	209000		
CAL YR 1981	TOTAL	1352990	MEAN	3707	MAX	29700	MIN	1420	CFSM	.85	IN	11.48	AC-FT	2684000
WTR YR 1982	TOTAL	2168660	MEAN	5942	MAX	32500	MIN	1420	CFSM	1.36	IN	18.40	AC-FT	4302000

CHOCTAWHATCHEE RIVER BASIN

02366500 CHOCTAWHATCHEE RIVER NEAR BRUCE, FL--Continued.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
NOV 20...	1630	2100	142	7.0	16.5	7.4	8.6	92	110	57	9	18
JAN 29...	1300	5720	84	7.0	11.0	16	9.4	25	39	29	3	9.1
MAR 26...	1600	6460	84	7.3	20.0	13	6.8	70	170	32	0	10
MAY 27...	1645	3870	111	7.6	25.0	21	6.5	64	22	49	3	16
JUL 22...	1730	4360	86	7.1	28.0	21	6.0	29	120	34	1	11
SEP 08...	1055	3860	104	--	24.5	16	6.5	58	130	41	3	13
DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
NOV 20...	2.9	5.4	17	.3	1.0	48	9.3	3.5	6.4	<.1	8.9	81
JAN 29...	1.5	2.7	16	.2	1.0	26	5.0	4.7	4.7	<.1	6.5	55
MAR 26...	1.8	3.0	16	.2	.9	32	3.1	1.5	3.5	<.1	5.8	59
MAY 27...	2.2	3.1	12	.2	.7	46	2.2	<1.0	4.4	<.1	6.7	67
JUL 22...	1.7	2.7	14	.2	.6	33	5.1	3.0	4.9	.1	6.8	61
SEP 08...	2.1	3.5	15	.2	.9	38	--	3.0	4.2	.1	6.6	63
DATE	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
NOV 20...	75	.11	459	.27	.050	.06	.18	.050	.15	<.010	<.010	--
JAN 29...	46	.07	849	.22	.060	.08	.18	.040	.12	.040	<.010	--
MAR 26...	46	.08	1030	.21	.080	.10	.46	.060	.18	.030	.010	.03
MAY 27...	--	.09	700	.31	.060	.08	.30	.040	.12	<.010	.020	.06
JUL 22...	51	.08	718	.21	.070	.09	.50	.050	.15	.020	<.010	--
SEP 08...	57	.09	657	.28	.020	.03	.70	.050	.15	<.010	<.010	--
DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDE RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)
NOV 20...	1	0	1	100	80	17	<1	1	20	10	10	1
JAN 29...	1	1	<1	100	90	14	<1	<1	10	--	<10	<1
MAR 26...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 27...	2	1	1	<100	--	17	2	<1	10	--	<10	2
JUL 22...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 08...	1	0	1	<100	--	18	1	<1	10	0	10	3

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

[illegible]

CHOCTAWHATCHEE RIVER BASIN

02366500 CHOCTAWHATCHEE RIVER NEAR BRUCE, FL--Continued.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL (UG/L)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)
NOV 20...	<.1	--	<.1	--	--	<.1	--	--	<.1	--	--	--
JAN 29...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 26...	--	<.01	--	<.01	<.01	--	<.01	<.01	--	<.01	<.01	<.01
MAY 27...	<.1	<.01	<.1	<.01	<.01	<.1	<.01	<.01	<.1	<.01	<.01	<.01
JUL 22...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 08...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PER- THANE TOTAL (UG/L)	PER- THANE IN BOTTOM MATERIAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 20...	--	<.10	--	<1.0	--	--	--	--	<.1
JAN 29...	--	--	--	--	--	--	--	--	--
MAR 26...	<.10	--	<1	--	<.01	<.01	<.01	<.01	--
MAY 27...	<.10	<1.00	<1	<10	<.01	<.01	<.01	<.01	<.1
JUL 22...	--	--	--	--	--	--	--	--	--
SEP 08...	--	--	--	--	--	--	--	--	--

DATE	SILVEX, TOTAL (UG/L)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 20...	--	13	74	69
JAN 29...	--	11	170	64
MAR 26...	<.01	15	262	67
MAY 27...	<.01	20	209	85
JUL 22...	--	22	259	68
SEP 08...	--	21	219	81

02366900 MAGNOLIA CREEK NEAR FREEPORT, FL

LOCATION.--Lat 30°31'48", long 86°05'15", in NW¼ sec.6, T.1 S., R.18 W., Walton County, Hydrologic Unit 03140102, near right bank on downstream side of bridge, 0.5 mi (0.8 km) upstream from Lafayette Creek, and 3.5 mi (5.6 km) northeast of Freeport.

DRAINAGE AREA.--11.2 mi² (29.0 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--

DISCHARGE: September 1968 to September 1971 and October 1974 to September 1978; October 1971 to September 1974 and October 1978 to current year (gage heights, discharge measurements and average discharge).

REVISED RECORDS.--WRD FL-774: 1969-71, 1975-76 (M).

GAGE.--Water-stage recorder. Datum of gage is 18.31 ft (5.581 m) National Geodetic Vertical Datum of 1929.

AVERAGE DISCHARGE.--11 years (water years 1969-71, 1974-82), 38.4 ft³/s (1.088 m³/s), 46.56 in/yr (1,183 mm/yr).

DISCHARGE: Maximum discharge, 1,550 ft³/s (43.9 m³/s) June 29,30, July 1, 1974, gage height, 4.63 ft (1.411 m).

DISCHARGE MEASUREMENTS, FOR WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	FLOW, INSTAN- TANEOUS (CFS)
JUNE 23...	1050	6.29	50	SEPT. 7...	1120	6.51	59

02366900 MAGNOLIA CREEK NEAR FREEPORT, FL--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	HARD- NESS (MG/L AS CaCO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CaCO3)	CALCIUM DIS- SOLVED (MG/L AS Ca)
JUN 23...	1100	50	42	5.6	23.0	70	3.3	--	13	9	2.8
SEP 07...	1145	59	43	6.7	22.5	80	3.4	7.0	12	8	2.8

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINTY LAB (MG/L AS CAO3)	CARBON DIOXIDE, DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)
JUN 23...	1.4	1.4	17	.2	1.7	4.0	19	6.0	5.3	<.1	3.5
SEP 07...	1.3	1.3	16	.2	2.3	4.0	1.5	5.0	5.1	.1	3.8

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
JUN 23...	26	25	.04	3.5	<.010	.94	.020	.98	1.00	1.9	.010
SEP 07...	46	24	.06	7.3	<.010	1.1	<.010	.69	.70	1.8	.010

DATE	PHOS-PHOSPHORUS (MG/L AS PO4)	PHOS-PHOSPHORUS (MG/L AS P)	STRONTIUM (UG/L AS SR)	PCB, TOTAL (UG/KG)	PCN, TOTAL (UG/KG)	ALDRIN, TOTAL (UG/KG)	CHLORDANE, TOTAL (UG/KG)	DDD, TOTAL (UG/KG)	DDE, TOTAL (UG/KG)	DDT, TOTAL (UG/KG)
JUN 23...	.03	<.010	11	<1	<1.0	<.1	<1.0	<.1	<.1	.2
SEP 07...	.03	<.010	10	--	--	--	--	--	--	--

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02366911 LAFAYETTE CREEK AT FREEPORT, FL

LOCATION.--Lat 30°29'35", long 86°07'33", Walton County, Hydrologic Unit 03140102, at bridge on State Highway 20 at Freeport.

DRAINAGE AREA.--35.5 mi² (91.9 km²).

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	HARD- NESS (MG/L AS CAO3)	HARD- NESS, NONCAR- BONATE (MG/L CAO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
JUN 23...	1245	82	59	6.5	26.5	30	1.0	14	8	3.2	1.5
DATE		SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CAO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)
JUN 23...		1.4	15	.2	2.7	6.0	3.7	4.0	6.4	<.1	3.2
DATE		SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)
JUN 23...		21	26	.03	4.7	<.010	1.6	.020	.18	.20	1.8
DATE		PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	PCB, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	PCN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	CHLOR- DANE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDD, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	DDT, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
JUN 23...		<.010	<.010	13	3	<1.0	<.1	16	<.1	<.1	<.1
DATE		DI- ELDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDO- SULFAN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM TOM MA- TERIAL (UG/KG)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	METH- OXY- CHLOR, TOT. IN BOTTOM TOM MA- TERIAL (UG/KG)	PER- THANE IN BOTTOM TOM MA- TERIAL (UG/KG)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
JUN 23...		<.1	<.1	<.1	<.1	<.1	<.1	<.1	<1.00	<10	<.1

ALAUQUA CREEK BASIN

02367006 ALAUQUA CREEK NEAR PORTLAND, FL

LOCATION.--Lat 30°33'22", long 86°10'45", in NE¼ sec.30, T.1 N., R.19 W., Walton County, Hydrologic Unit 03140102, near center on downstream side of bridge on State Highway S-282, 3.2 mi (5.1 km) northeast of Portland, and 5.8 mi (9.3 km) upstream from mouth.

DRAINAGE AREA.--83.7 mi² (135 km²).

PERIOD OF RECORD.--May and July 1977, October 1978 to January 1980 (gage heights and discharge measurements only), February 1980 to current year.

GAGE.--Water-stage recorder. Datum of gage 1.84 ft (0.561 m) National Geodetic Vertical Datum of 1929 (Vitro Corporation of America bench mark). Prior to Feb. 14, 1980, nonrecording gage at same site and datum.

REMARKS.--Records fair except those above 723 ft ³/s (20.5 m³/s), which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,870 ft³/s (53.0 m³/s) Feb. 3, 1981, gage height, 12.38 ft (3.773 m) from rating curve extended above 655 ft ³/s (18.5 m³/s); minimum discharge, 52 ft³/s (1.47 m³/s) July 17, 1981, Oct. 17, 1981, and part of each day Oct. 16, 18, 1982, gage height, 2.90 ft (0.884 m).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,870 ft³/s (53.0 m³/s) Feb. 3, gage height, 12.38 ft (3.773 m) from rating curve extended above 655 ft³/s (18.5 m³/s); minimum, 52 ft³/s (1.47 m³/s) for part or all of each day Oct. 16-18, gage height, 2.90 ft (0.884 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	68	70	533	182	248	149	110	87	286	647	154
2	59	67	114	478	146	208	140	110	117	146	716	146
3	58	65	90	214	684	188	133	110	85	114	622	158
4	56	64	72	213	1130	177	126	101	79	104	377	229
5	56	64	67	381	763	175	121	94	71	117	271	235
6	56	64	64	222	600	281	124	90	65	141	405	172
7	56	63	64	165	453	439	117	89	61	112	352	159
8	56	60	64	283	369	442	136	94	59	97	304	147
9	56	59	63	236	373	275	268	93	58	100	283	204
10	58	71	62	159	529	219	244	86	56	224	282	390
11	58	127	61	143	509	199	207	83	56	206	543	421
12	57	110	76	135	377	188	151	80	55	165	661	270
13	56	83	217	280	408	178	132	78	91	239	699	185
14	54	72	164	507	392	171	126	77	156	167	672	165
15	53	67	292	483	325	165	123	76	79	200	413	174
16	53	66	249	269	361	164	118	75	66	166	358	153
17	53	67	131	207	561	161	112	74	66	181	654	139
18	53	69	114	175	541	155	116	72	76	373	638	131
19	58	66	115	163	368	149	112	72	68	436	424	132
20	71	64	100	156	292	145	128	74	63	392	321	131
21	54	64	94	149	260	141	253	80	76	363	282	127
22	55	64	92	143	234	142	211	87	70	192	379	119
23	56	63	91	138	211	186	134	93	70	165	408	113
24	60	64	90	141	201	187	115	84	112	353	367	110
25	74	67	96	130	196	211	184	91	132	362	282	109
26	168	66	114	124	187	342	340	107	184	339	234	109
27	181	64	101	119	276	231	199	102	182	280	209	110
28	103	66	158	117	353	164	140	84	327	371	190	107
29	81	66	149	117	---	154	123	76	247	572	198	104
30	74	63	159	115	---	147	115	72	416	783	200	100
31	70	---	253	124	---	144	---	77	---	725	168	---
TOTAL	2112	2083	3646	6819	11281	6376	4697	2691	3330	8471	12559	5003
MEAN	68.1	69.4	118	220	403	206	157	86.8	111	273	405	167
MAX	181	127	292	533	1130	442	340	110	416	783	716	421
MIN	53	59	61	115	146	141	112	72	55	97	168	100
AC-FT	4190	4130	7230	13530	22380	12650	9320	5340	6610	16800	24910	9920
CAL YR 1981	TOTAL	42031	MEAN 115	MAX 901	MIN 53	AC-FT 83370						
WTR YR 1982	TOTAL	69068	MEAN 189	MAX 1130	MIN 53	AC-FT 137000						

02367240 ROCKY CREEK NEAR PORTLAND, FL

LOCATION.--Lat 30°34'23", long 86°22'01", in NE¼ sec.20, T.1 N., R.21 N., Walton County, Hydrologic Unit 03140102, near left bank on downstream of bridge on Jackson Trail Road, 8.1 mi (13.0 km) northeast of Niceville, and 11.2 mi (18.0 km) northwest of Portland.

DRAINAGE AREA.--42.0 mi² (108.8 km²).

PERIOD OF RECORD.--1965-67, 1977 (one discharge measurement each year); November 1979 to June 1980 (gage heights and discharge measurements only); July 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 30 ft (9.14 m) from topographic map. Prior to July 16, 1980, nonrecording gage at same site and datum.

REMARKS.--Records good, below 340 ft³/s (9.63 m³/s), fair above.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,300 ft³/s (36.8 m³/s) Feb. 3, 1982, gage height, 6.86 ft (2.091 m); minimum, 63 ft³/s (1.78 m³/s) June 20, 1981; minimum gage height observed, 1.40 ft (0.427 m) Apr. 24, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,300 ft³/s (36.8 m³/s) Feb. 3, gage height, 6.86 ft (2.091 m); minimum, 64 ft³/s (1.81 m³/s) Dec. 10, gage height, 1.57 ft (0.478 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	72	66	197	94	120	111	98	113	121	162	98
2	68	71	66	108	90	116	107	102	93	104	150	94
3	68	70	98	100	828	115	107	105	88	97	117	104
4	66	70	81	127	384	114	103	97	86	98	108	121
5	67	69	70	106	189	116	105	94	84	109	104	103
6	68	69	67	94	161	150	105	93	82	103	120	104
7	67	69	66	98	150	173	101	94	81	104	113	96
8	67	68	66	135	144	129	130	96	80	98	109	94
9	67	66	66	97	180	119	130	93	80	93	105	114
10	67	67	64	90	217	117	128	91	79	95	131	177
11	69	68	64	87	150	115	117	90	79	91	177	177
12	67	94	96	89	144	115	105	89	79	116	127	123
13	68	81	115	154	152	114	103	89	95	113	137	103
14	67	72	121	152	135	113	103	89	182	104	114	99
15	65	70	167	108	136	113	102	88	92	134	114	102
16	66	68	95	100	140	114	100	88	84	142	164	93
17	65	68	84	95	166	112	99	86	84	150	148	89
18	65	70	86	92	134	110	109	88	85	115	129	89
19	65	71	80	91	127	109	101	98	80	115	149	93
20	67	68	77	90	123	108	117	121	79	151	117	91
21	66	68	76	89	121	107	140	112	78	109	110	89
22	66	69	76	87	118	120	110	118	77	99	114	85
23	66	67	79	88	116	129	100	96	76	104	114	84
24	66	68	75	87	116	132	98	96	84	140	122	83
25	71	69	98	84	116	133	137	101	121	160	106	83
26	76	72	82	83	115	140	150	105	233	160	105	84
27	128	68	88	82	152	114	110	97	181	106	118	83
28	125	68	83	82	130	112	103	90	292	108	120	82
29	83	69	87	82	---	110	100	87	165	176	147	81
30	76	69	92	81	---	108	99	93	194	206	122	80
31	73	---	226	94	---	111	---	96	---	151	103	---
TOTAL	2233	2108	2757	3149	4828	3708	3330	2980	3306	3772	3876	2998
MEAN	72.0	70.3	88.9	102	172	120	111	96.1	110	122	125	99.9
MAX	128	94	226	197	828	173	150	121	292	206	177	177
MIN	65	66	64	81	90	107	98	86	76	91	103	80
CFSM	1.70	1.66	2.10	2.41	4.06	2.83	2.62	2.27	2.59	2.88	2.95	2.36
IN.	1.96	1.85	2.42	2.76	4.24	3.25	2.92	2.61	2.90	3.31	3.40	2.63
AC-FT	4430	4180	5470	6250	9580	7350	6610	5910	6560	7480	7690	5950
CAL YR 1981	TOTAL	30777	MEAN	84.3	MAX 599	MIN 64	CFSM 1.99	IN 27.00	AC-FT	61050		
WTR YR 1982	TOTAL	39045	MEAN	107	MAX 828	MIN 64	CFSM 2.52	IN 34.26	AC-FT	77450		

02367310 JUNIPER CREEK AT STATE HIGHWAY 85, NEAR NICEVILLE, FL

LOCATION.--Lat 30°33'26", long 86°31'11", in NW¼ sec.26, T.1 N., R.23 W., Okaloosa County, Hydrologic Unit 03140102, on left bank 20 ft (6 m) downstream from southbound bridge on State Highway 85, 0.8 mi (1.3 km) upstream from Turkey Creek, and 3.0 mi (4.8 km) northwest of Niceville.

DRAINAGE AREA.--27.6 mi² (71.4 km²).

PERIOD OF RECORD.--March 1966 to September 1975; October 1975 to April 1977 (gage heights and discharge measurements only); May 1977 to current year.

REVISED RECORDS.--WDR FL-77-4: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 7.78 ft (2.371 m) National Geodetic Vertical Datum of 1929. March 1966 to September 1975, water-stage recorder at site 40 ft (12 m) upstream at present datum. October 1975 to April 1977, nonrecording gage at site 40 ft (12 m) upstream at present datum.

REMARKS.--Records good, except those for period of no gage-height record, Mar. 8 to Apr. 21, which are poor.

AVERAGE DISCHARGE.--14 years, (water years 1967-75, 1978-82), 89.7 ft³/s (2.540 m³/s), 44.14 in/yr (1,121 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,110 ft³/s (31.4 m³/s) Sept. 23, 1975, gage height, 9.56 ft (2.914 m), extended above 415 ft³/s (11.7 m³/s); minimum, 39 ft³/s (1.10 m³/s) July 28, 1967; minimum gage height, 5.19 ft (1.582 m) Sept. 11, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 250 ft³/s (7.08 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)
Feb. 3	1100	*789 22.3	*8.74 2.664	June 27	2400	264 7.48	7.53 2.295

Minimum discharge, 59 ft³/s (1.67 m³/s) Oct. 22, 23; minimum gage height, 6.04 ft (1.841 m) June 23, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	66	83	111	66	90	78	82	81	95	116	93
2	64	66	75	89	72	89	76	83	74	78	113	91
3	63	66	68	84	540	88	76	81	71	74	118	99
4	63	65	67	109	153	88	77	80	70	78	98	109
5	63	65	66	85	121	89	76	78	69	109	95	96
6	62	64	66	80	109	109	75	78	67	143	100	97
7	63	63	66	82	102	135	81	79	67	98	96	93
8	62	63	66	91	99	103	88	80	66	90	100	92
9	63	65	65	76	133	96	80	77	66	86	95	106
10	63	108	64	74	123	94	76	76	65	85	106	118
11	63	95	64	72	101	91	76	76	65	83	120	114
12	63	76	80	74	101	89	76	75	65	96	111	102
13	62	73	78	108	104	89	76	74	102	109	114	96
14	61	71	99	103	96	88	75	74	153	86	109	93
15	61	71	103	80	96	87	74	74	82	85	103	106
16	61	72	75	76	102	87	74	73	74	96	113	93
17	61	72	71	74	123	85	77	73	74	118	103	89
18	61	70	73	73	96	84	90	75	73	126	100	89
19	61	70	69	72	93	83	105	75	70	121	114	91
20	61	70	68	71	91	82	100	74	69	113	102	89
21	61	69	67	70	90	81	92	73	69	106	101	89
22	61	69	69	70	89	81	86	73	67	96	106	85
23	62	69	71	70	88	80	83	76	66	97	105	85
24	63	71	67	69	89	89	83	76	66	120	102	85
25	80	69	84	68	88	95	113	83	72	117	98	84
26	135	68	70	68	89	89	107	81	81	106	94	84
27	77	68	79	69	104	81	89	76	135	96	99	84
28	71	68	70	67	93	80	86	72	151	99	96	83
29	69	67	78	67	---	80	84	70	99	113	107	83
30	67	66	77	66	---	80	83	74	104	114	110	82
31	67	---	148	70	---	79	---	74	---	116	96	---
TOTAL	2059	2115	2346	2438	3251	2761	2512	2365	2433	3149	3240	2800
MEAN	66.4	70.5	75.7	78.6	116	89.1	83.7	76.3	81.1	102	105	93.3
MAX	135	108	148	111	540	135	113	83	153	143	120	118
MIN	61	63	64	66	66	79	74	70	65	74	94	82
CFSM	2.41	2.55	2.74	2.85	4.20	3.23	3.03	2.76	2.94	3.70	3.80	3.38
IN.	2.78	2.85	3.16	3.29	4.38	3.72	3.39	3.19	3.28	4.24	4.37	3.77
AC-FT	4080	4200	4650	4840	6450	5480	4980	4690	4830	6250	6430	5550
CAL YR 1981	TOTAL	25840	MEAN	70.8	MAX	462	MIN	52	CFSM	2.57	IN	34.83
WTR YR 1982	TOTAL	31469	MEAN	86.2	MAX	540	MIN	61	CFSM	3.12	IN	42.41
									AC-FT	51250	AC-FT	62420

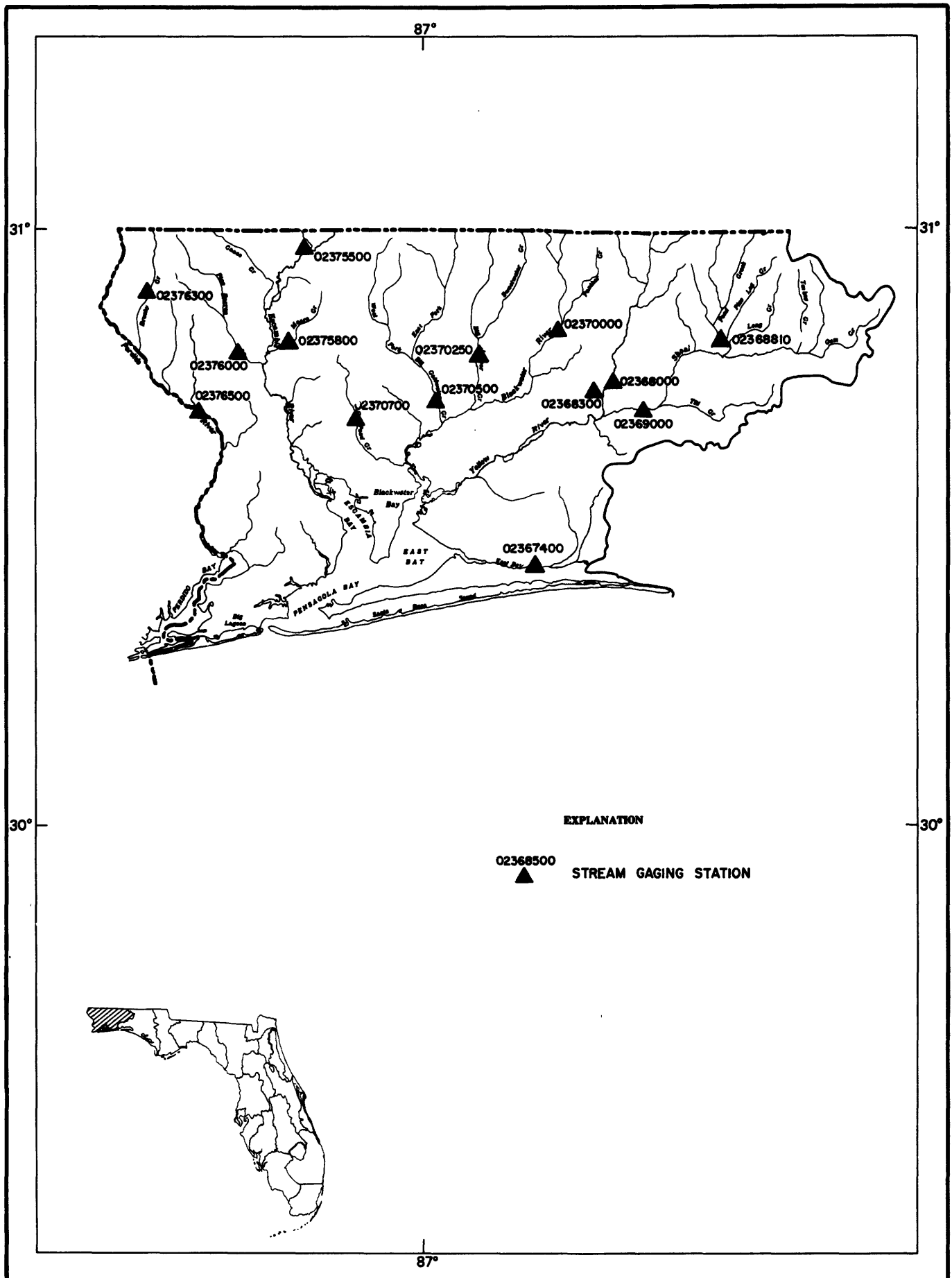


Figure 9. Location of stream gaging stations in the Yellow, Blackwater, lower Conecuh, Escambia and Perdido River basins; and inflow to and coastal area for Escambia and Perdido Bays.

EAST BAY RIVER BASIN

02367400 EAST BAY RIVER NEAR WYNNE HAVEN BEACH, FL

LOCATION.--Lat 30°25'53", long 86°46'20", in NE¼ sec.8, T.2 S., R.25 W., Okaloosa County, Hydrologic Unit 03140105, Eglin Air Force Base, center of span on downstream side of bridge on clay road, 1.5 mi (2.4 km) north of Wynne Haven Beach, 2.2 mi (3.5 km) upstream from Panther Creek, and 7.7 mi (12.3 km) upstream from mouth.

DRAINAGE AREA.--62 mi² (161 km²).

PERIOD OF RECORD.--

DISCHARGE: April 1966 to April 1968, August 1980 to Sept. 30, 1981; May 1977 (one discharge measurement only); October 1979 to July 1980, and October 1981 to September 1982 (gage heights and discharge measurements only), discontinued.

WATER TEMPERATURE: October 1979 to current year. Records of periodic water temperature observations prior to October 1979 are available in files of the Geological Survey.

GAGE.--Water-stage recorder. Altitude of gage is 20 ft (6.1 m), from topographic map. April 1966 to February 13, 1968, water-stage recorder at site 20 ft (6 m) upstream at datum 3.53 ft (1.076 m) National Geodetic Vertical Datum of 1929. February 26, to April 30, 1968, water-stage recorder at site 200 ft upstream at datum 3.53 ft (1.076 m) National Geodetic Vertical Datum of 1929. May 26, 1977 to August 1980, nonrecording gage at present site and datum.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum discharge, 1,480 ft³/s (41.9 m³/s) Nov. 1, 1967, gage height, 10.67 ft (3.252 m) datum then in use; minimum discharge, 119 ft³/s (3.37 m³/s), June 1, 2, 1967, gage height, 4.84 ft (1.475 m), datum then in use.

WATER TEMPERATURE: Maximum observed, 24.5°C July 23, 1981, and June 23, 1982; minimum observed, 11.0°C Feb. 13, 1968.

DISCHARGE MEASUREMENTS AND WATER TEMPERATURES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)
OCT					APR				
08...	1710	5.12	134	19.0	20...	1735	5.98	186	22.0
DEC					JUN				
10...	1410	5.21	135	13.0	23...	1005	5.08	138	24.5
FEB					AUG				
18...	1045	7.24	314	15.5	19...	1020	6.78	257	23.5

02368000 YELLOW RIVER AT MILLIGAN, FL
(National stream-quality accounting network station)

LOCATION.--Lat 30°45'10", long 86°37'45" in SE¼ sec.15, T.3 N., R.24 W., Okaloosa County, Hydrologic Unit 03140103, near center on downstream side of bridge on U.S. Highway 90, 0.5 mi (0.8 km) east of Milligan, 0.5 mi (0.8 km) upstream from Trammel Creek, 6.7 mi (10.8 km) upstream from Shoal River, and 40 mi (64 km) upstream from mouth.

DRAINAGE AREA.--624 mi² (1,616 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1938 to current year.

REVISED RECORDS.--WSP 892: 1938-39. WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 45.00 ft (13.716 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 6, 1939, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--44 years, 1,167 ft³/s (33.05 m³/s), 25.40 in/yr (645 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,600 ft³/s (1,090 m³/s) Apr. 12, 1975, gage height, 17.71 ft (5.398 m); minimum, 131 ft³/s (3.71 m³/s) June 23, 24, 1967 (result of channel work); minimum gage height, 0.59 ft (0.180 m) Oct. 21, 22, 24, 25, 30, 1968. Prior to June 23, 1967, minimum discharge, 143 ft³/s (4.05 m³/s) Oct. 25, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1929 reached a stage of 26.2 ft (7.99 m), from information by local residents, discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,270 ft³/s (178 m³/s) Feb. 6, gage height, 9.66 (2.944 m); minimum, 177 ft³/s (5.01 m³/s) Oct. 7-9, gage height, 0.88 ft (0.268 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	191	307	310	2650	799	1270	793	1140	456	888	926	298
2	188	280	361	2920	1000	1290	779	875	418	710	954	295
3	183	263	343	2820	2840	1220	759	762	394	550	982	301
4	180	252	369	2860	4350	1120	733	692	385	463	833	459
5	179	247	368	2770	4800	1050	705	638	379	477	619	538
6	179	244	338	2250	5970	1280	680	596	376	426	550	627
7	179	234	307	2050	5440	2210	702	566	347	378	490	523
8	178	228	291	1830	3910	3170	734	636	329	347	458	437
9	179	229	280	1790	2540	3760	721	766	322	340	472	403
10	191	275	269	2440	1820	4370	750	923	305	390	563	454
11	197	334	265	2250	1730	3950	741	866	290	674	629	488
12	198	420	340	1870	1940	2780	745	693	280	674	871	499
13	208	526	540	1520	2500	1880	728	586	269	718	771	462
14	206	521	480	1300	3540	1530	661	527	266	627	747	568
15	200	449	571	1180	4800	1380	612	487	287	560	629	493
16	194	376	597	1110	4830	1280	580	460	351	510	962	462
17	189	336	651	1080	4170	1200	557	439	317	520	1440	468
18	186	307	669	1170	3310	1130	543	423	291	525	1100	416
19	191	289	597	1290	2940	1070	545	408	273	535	1040	363
20	189	287	518	1310	2950	1020	644	407	257	537	887	327
21	185	278	468	1190	2660	966	928	445	246	472	670	309
22	193	273	437	1100	2030	933	1270	486	242	419	583	293
23	198	282	417	1030	1590	931	1730	487	309	578	532	276
24	200	303	406	1010	1390	937	2160	454	459	695	470	264
25	252	296	462	1030	1260	970	2150	680	409	661	420	257
26	534	279	545	1030	1180	1010	2060	904	358	806	384	252
27	475	278	684	953	1200	1050	2160	909	432	836	361	248
28	467	277	862	865	1220	1070	2360	703	618	684	357	242
29	487	271	1160	802	---	944	2290	675	802	565	334	238
30	441	266	1480	767	---	842	1720	626	937	668	366	233
31	364	---	1900	762	---	802	---	513	---	836	334	---
TOTAL	7581	9207	17285	48999	78709	48415	32540	19772	11404	18069	20734	11493
MEAN	245	307	558	1581	2811	1562	1085	638	380	583	669	383
MAX	534	526	1900	2920	5970	4370	2360	1140	937	888	1440	627
MIN	178	228	265	762	799	802	543	407	242	340	334	233
CFSM	.39	.49	.89	2.53	4.51	2.50	1.74	1.02	.61	.93	1.07	.61
IN.	.45	.55	1.03	2.92	4.69	2.89	1.94	1.18	.68	1.08	1.24	.69
AC-FT	15040	18260	34280	97190	156100	96030	64540	39220	22620	35840	41130	22800
CAL YR 1981	TOTAL	210105	MEAN 576	MAX 8500	MIN 178	CFSM .92	IN 12.53	AC-FT 416700				
WTR YR 1982	TOTAL	324208	MEAN 888	MAX 5970	MIN 178	CFSM 1.42	IN 19.33	AC-FT 643100				

YELLOW RIVER BASIN

02368000 YELLOW RIVER AT MILLIGAN, FL.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1962 to June 1972, October 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAO3)	HARD- NESS, NONCAR- BONATE (MG/L CAO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
NOV 20...	0930	286	73	7.4	15.0	4.2	9.8	23	180	29	6	8.7
JAN 27...	0900	965	57	5.9	9.0	11	10.4	42	61	20	3	5.9
MAR 31...	0730	801	55	7.1	16.0	10	8.7	45	150	22	2	6.5
MAY 20...	1015	395	78	7.5	24.0	5.5	7.5	20	71	31	0	9.5
JUL 30...	1130	635	54	7.1	25.0	20	7.4	K330	K430	22	2	6.5
SEP 07...	0850	532	62	7.1	24.0	15	7.2	170	33	22	3	6.5
DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CAO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)
NOV 20...	1.7	2.5	16	.2	.5	23	1.8	2.3	4.0	<.1	7.0	49
JAN 27...	1.2	2.6	22	.3	.6	17	41	2.8	4.1	.0	6.3	40
MAR 31...	1.5	2.3	18	.2	.2	20	3.1	1.3	3.6	.1	5.6	39
MAY 20...	1.8	1.9	12	.2	.3	31	1.9	2.0	3.4	<.1	5.6	49
JUL 30...	1.3	2.2	18	.2	.3	20	3.1	2.0	2.8	<.1	6.6	44
SEP 07...	1.4	2.3	18	.2	.8	19	2.9	3.0	3.7	<.1	6.2	38
DATE	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)
NOV 20...	41	.07	37.8	.11	<.010	.01	.30	.010	.03	.020	<.010	--
JAN 27...	34	.05	104	.22	.060	.08	.36	.030	.09	<.010	<.010	--
MAR 31...	33	.05	84.3	.12	.080	.10	.58	.030	.09	<.010	<.010	--
MAY 20...	43	.07	52.3	.14	.040	.05	.40	.040	.12	<.010	<.010	--
JUL 30...	34	.06	75.4	.15	.090	.12	<.10	.040	.12	<.010	.010	.03
SEP 07...	35	.05	54.6	.14	.030	.04	--	.040	.12	<.010	<.010	--
DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDED RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)
NOV 20...	1	0	1	100	90	14	<1	<1	20	10	10	1
JAN 27...	1	0	1	<100	--	15	<1	<1	20	10	10	1
MAR 31...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 20...	1	--	<1	<100	--	16	<1	1	10	--	<10	1
JUL 30...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 07...	1	0	1	<100	--	17	1	<1	10	--	<10	2

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

[illegible]

YELLOW RIVER BASIN

02368000 YELLOW RIVER AT MILLIGAN, FL.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	HEPTA- CHLOR, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL (UG/L)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METH- OXY- CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)
NOV 20...	<.1	--	<.1	--	--	<.1	--	--	<.1	--	--	--
JAN 27...	--	--	--	--	--	--	--	--	--	--	--	--
MAR 31...	--	<.01	--	<.01	<.01	--	<.01	<.01	--	<.01	<.01	<.01
MAY 20...	<.1	<.01	<.1	<.01	<.01	<.1	.01	<.01	<.1	<.01	<.01	<.01
JUL 30...	--	--	--	--	--	--	--	--	--	--	--	--
SEP 07...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PER- THANE TOTAL (UG/L)	PER- THANE IN BOT- TOM MA- TERIAL (UG/KG)	TOX- APHENE, TOTAL (UG/L)	TOXA- PHENE, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	MIREX, TOTAL IN BOT- TOM MA- TERIAL (UG/KG)
NOV 20...	--	<.10	--	<1.0	--	--	--	--	<.1
JAN 27...	--	--	--	--	--	--	--	--	--
MAR 31...	<.10	--	<1	--	<.01	<.01	<.01	<.01	--
MAY 20...	<.10	<1.00	<1	<10	<.01	<.01	<.01	<.01	<.1
JUL 30...	--	--	--	--	--	--	--	--	--
SEP 07...	--	--	--	--	--	--	--	--	--

DATE	SILVEK, TOTAL (UG/L)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 20...	--	9	6.9	56
JAN 27...	--	39	102	21
MAR 31...	<.01	40	87	18
MAY 20...	<.01	7	7.5	71
JUL 30...	--	27	46	33
SEP 07...	--	23	33	57

02368300 BAGGETT CREEK NEAR MILLIGAN, FL

LOCATION.--Lat 30°43'40", long 86°39'35", in SW¼ sec.28, T.3 N., R.24 W., Okaloosa County, Hydrologic Unit 03140103, at left downstream side of culvert on U.S. Highway 90, 1.2 mi (1.9 km) upstream from mouth, and 2.0 mi (3.2 km) southwest of Milligan.

DRAINAGE AREA.--7.77 m² (20.12 km²).

PERIOD OF RECORD.--October 1964 to September 1982 (discontinued).

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

REMARKS.--Records fair.

AVERAGE DISCHARGE.--18 years, 21.5 ft³/s (0.608 m³/s), 37.58 in/yr (954 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 672 ft³/s (19.0 m³/s) Mar. 3, 1979, gage height, 63.30 ft (19.294 m), from rating curve extended above 340 ft³/s (9.63 m³/s) on basis of area-velocity study; minimum, 6.3 ft³/s (0.18 m³/s) July 31, Aug. 4, 10, 17, 1968; minimum gage height, 56.33 ft (17.169 m) Oct. 9, 10, 14, 16, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 180 ft³/s (5.10 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)
Feb. 3	0115	*416 11.8	61.92 18.873	Sept. 6	1915	391 11.1	61.78 18.830

Minimum discharge, 10 ft³/s (0.28 m³/s) part or all of each day Oct. 1-23; gage height, 56.85 ft (17.328 m) Oct. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	11	16	22	14	20	18	14	12	14	22	12
2	11	11	13	18	41	19	17	14	12	12	19	12
3	10	11	11	17	181	19	18	14	12	12	15	19
4	10	11	11	22	35	19	16	13	12	12	14	22
5	10	11	11	17	28	20	17	13	12	14	13	18
6	11	11	11	16	24	36	17	13	12	13	19	87
7	11	11	11	22	22	54	16	14	12	13	15	39
8	11	11	11	21	21	23	18	16	11	13	14	18
9	11	12	11	16	27	21	19	14	11	13	13	20
10	11	16	11	15	24	20	18	16	12	13	14	24
11	11	13	11	15	21	20	17	13	12	15	14	21
12	11	12	14	18	39	19	16	13	12	20	13	18
13	10	11	13	34	27	19	16	13	11	16	13	16
14	10	11	20	28	21	19	16	13	11	14	13	15
15	10	11	17	17	24	19	16	13	11	19	18	14
16	10	11	13	16	61	19	16	12	11	27	23	14
17	10	11	12	15	44	18	16	12	12	20	16	14
18	11	11	14	15	24	18	16	13	11	20	17	14
19	11	11	12	15	22	18	16	13	11	18	15	14
20	10	11	12	15	21	18	18	13	11	15	14	14
21	10	11	12	15	20	17	26	13	12	14	13	13
22	10	11	12	15	20	20	17	13	11	14	13	13
23	11	11	12	15	19	20	15	13	11	15	13	13
24	11	12	12	14	19	22	14	13	12	17	13	13
25	23	11	14	14	19	22	35	14	14	18	12	13
26	24	11	12	14	20	21	20	17	13	15	12	13
27	13	11	16	14	29	18	15	16	21	16	12	13
28	12	11	14	14	21	18	14	13	16	16	12	13
29	11	11	17	14	---	17	14	13	14	29	12	13
30	11	11	13	14	---	17	14	12	15	44	12	12
31	11	---	53	15	---	19	---	12	---	21	12	---
TOTAL	358	340	442	532	888	649	521	418	370	532	450	554
MEAN	11.5	11.3	14.3	17.2	31.7	20.9	17.4	13.5	12.3	17.2	14.5	18.5
MAX	24	16	53	34	181	54	35	17	21	44	23	87
MIN	10	11	11	14	14	17	14	12	11	12	12	12
CFSM	1.47	1.45	1.83	2.21	4.06	2.68	2.23	1.73	1.58	2.21	1.86	2.37
IN.	1.71	1.62	2.11	2.54	4.23	3.09	2.48	1.99	1.76	2.54	2.15	2.64
AC-FT	710	674	877	1060	1760	1290	1030	829	734	1060	893	1100

CAL YR 1981	TOTAL	4931.8	MEAN	13.5	MAX	95	MIN	9.5	CFSM	1.73	IN	23.52	AC-FT	9780
WTR YR 1982	TOTAL	6054.0	MEAN	16.6	MAX	181	MIN	10	CFSM	2.13	IN	28.87	AC-FT	12010

YELLOW RIVER BASIN

02368810 POND CREEK AT DORCAS, FL

LOCATION.--Lat 30°48'36", long 86°24'29", in SE¼ sec.26, T.4 N., R.22 W., Okaloosa County, Hydrologic Unit 03140103, near left bank on downstream side of bridge on State Highway S-393, 0.9 mi (1.4 km) northeast of Dorcas, 2.5 mi (4.0 km) upstream from mouth at Shoal River, and 4.3 mi (6.9 km) northeast of Deerland.

DRAINAGE AREA.--96.5 mi² (250 km²).

PERIOD OF RECORD.--

DISCHARGE: October 1979 to current year (gage heights and discharge measurements only).

WATER TEMPERATURE: April 1980 to current year.

GAGE.--Nonrecording gage and crest-stage gage. Altitude of gage is 84 ft (25.6 m), from topographic map.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum measured, 1,300 ft³/s (36.8 m³/s) Apr. 14, 1980, gage height, 9.68 ft (2.950 m); minimum measured, 28 ft³/s (0.79 m³/s) Sept. 14, 1981; minimum gage height observed, 1.05 ft (0.320 m) Aug. 11, 1980.

WATER TEMPERATURE: Maximum observed, 28.5°C June 16, 1980; minimum observed, 5.0°C Jan. 12, 1981.

DISCHARGE MEASUREMENTS AND WATER TEMPERATURES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)
OCT					MAY				
26...	1120	1.98	122	16.0	10...	1320	1.37	72	20.5
JAN					JUL				
04...	1525	4.99	595	17.0	26...	1708	1.42	68	28.5
MAR									
22...	1615	1.80	126	18.0					

02369000 SHOAL RIVER NEAR CRESTVIEW, FL

LOCATION.--Lat 30°41'50", long 86°34'15", in SW¼ sec.5, T.2 N., R.23 W., Okaloosa County, Hydrologic Unit 03140103, near center of bridge on downstream side of southbound lane on State Highway 85, 3.5 mi (5.6 km) downstream from Titi Creek, 4.2 mi (6.8 km) south of Crestview, and 7 mi (11 km) upstream from mouth.

DRAINAGE AREA.--474 mi² (1,228 km²).

PERIOD OF RECORD.--July 1938 to current year.

REVISED RECORDS.--WSP 1274: 1939-40, 1944, 1947, 1950. WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 47.21 ft (14.390 m) National Geodetic Vertical Datum of 1929. Prior to Feb. 12, 1939 and June 12, 1972 to Aug. 22, 1973, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--44 years, 1,092 ft³/s (30.92 m³/s), 31.29 in/yr (795 mm).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,200 ft³/s (714 m³/s) Aug. 1, 1975, gage height, 15.58 ft (4.749 m); minimum, 240 ft³/s (6.80 m³/s) part or all of each day Oct. 17, 18, 1972; minimum gage height, 0.96 ft (0.293 m) May 13, 14, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,500 ft³/s (99.1 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)
Feb. 5	0530	*12,500 354	11.09 3,380	Feb. 18	2300	4,180 118	7.59 2.313
Feb. 14	2100	3,610 102	7.32 2,231	Mar. 8	2330	3,900 110	7.45 2.271

Minimum discharge, 284 ft³/s (8.04 m³) Oct. 25, gage height, 1.70 ft (0.518 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	312	352	362	2580	671	1340	799	646	444	857	1460	736
2	313	343	523	3070	804	1120	785	619	433	663	1300	610
3	310	337	468	1770	4610	1010	771	597	412	504	1200	563
4	306	331	431	1330	8720	953	755	574	427	456	888	746
5	304	330	410	1910	11600	933	709	544	416	456	723	918
6	301	336	400	1820	7000	1230	713	525	387	486	678	928
7	299	326	391	1060	4150	2610	696	514	365	484	689	746
8	297	319	359	1090	2690	3700	687	597	355	431	689	633
9	294	319	331	1230	2030	3620	794	676	347	444	713	617
10	290	409	314	948	2090	2140	852	593	340	778	736	848
11	306	484	300	780	2270	1420	809	529	336	913	830	1090
12	314	375	440	729	1930	1240	727	498	330	838	958	1240
13	314	352	687	1000	2480	1150	669	473	336	953	958	997
14	310	344	750	1950	3490	1060	642	460	356	804	845	804
15	308	347	898	2610	3150	987	635	450	373	725	734	746
16	302	346	1080	1890	2180	951	624	446	350	680	682	663
17	299	338	799	1200	2990	925	601	437	331	743	992	612
18	297	343	639	961	3990	888	597	423	338	951	1340	580
19	300	350	591	857	3820	855	604	423	337	1200	1110	557
20	309	356	551	818	2410	830	653	423	326	1240	1170	538
21	295	352	525	790	1640	809	1010	425	319	871	974	523
22	291	344	510	762	1410	799	1360	502	316	674	762	508
23	289	340	514	743	1270	883	989	667	312	604	680	492
24	286	344	516	748	1160	933	736	548	418	864	769	475
25	284	350	606	732	1080	987	711	569	610	976	755	472
26	882	337	680	693	1030	1140	1250	656	589	813	633	466
27	919	334	838	663	1160	1290	1650	713	704	704	610	460
28	510	334	876	644	1440	989	1140	597	971	630	660	454
29	420	327	933	635	---	850	778	494	888	879	642	448
30	381	320	1230	624	---	809	693	448	838	1910	748	435
31	361	---	1370	626	---	792	---	433	---	2090	879	---
TOTAL	11003	10419	19322	37263	83265	39243	24439	16499	13304	25621	26807	19905
MEAN	355	347	623	1202	2974	1266	815	532	443	826	865	664
MAX	919	484	1370	3070	11600	3700	1650	713	971	2090	1460	1240
MIN	284	319	300	624	671	792	597	423	312	431	610	435
CFSM	.75	.73	1.31	2.54	6.27	2.67	1.72	1.12	.94	1.74	1.83	1.40
IN.	.86	.82	1.52	2.92	6.53	3.08	1.92	1.29	1.04	2.01	2.10	1.56
AC-FT	21820	20670	38330	73910	165200	77840	48470	32730	26390	50820	53170	39480
CAL YR 1981	TOTAL	218568	MEAN 599	MAX 9180	MIN 284	CFSM 1.26	IN 17.15	AC-FT 433500				
WTR YR 1982	TOTAL	327090	MEAN 896	MAX 11600	MIN 284	CFSM 1.89	IN 25.67	AC-FT 648800				

BLACKWATER RIVER BASIN

02370000 BLACKWATER RIVER NEAR BAKER, FL

LOCATION.--Lat 30°50'00", long 86°44'05", in SW¼ sec.22, T.4 N., R.25 W., Okaloosa County, Blackwater River State Forest, Hydrologic unit 03140104, near right bank on downstream side of bridge on State Highway 4, 0.3 mi (0.5 km) downstream from Red Wash Branch, 3.8 mi (6.1 km) northwest of Baker, and 35 mi (56 km) upstream from mouth.

DRAINAGE AREA.--205 mi² (531 km²).

PERIOD OF RECORD.--March 1950 to current year.

REVISED RECORDS.--WSP 1704: 1950 (M), 1951-52.

GAGE.--Water-stage recorder. Datum of gage is 60.5 ft (18.44 m) National Geodetic Vertical Datum of 1929 (from design datum of bridge curb furnished by Florida Department of Transportation).

REMARKS.--Records good.

AVERAGE DISCHARGE.--32 years, 339 ft³/s (9.600 m³/s), 22.46 in/yr (570 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,200 ft³/s (742 m³/s) June 4, 1970, gage height, 25.61 ft (7.806 m); minimum, 60 ft³/s (1.70 m³/s) Sept. 7, 8, 1954; minimum gage height, 1.77 ft (0.539 m) July 18-20, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft³/s (42.5 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. 31	2400	2,000 56.6	8.86 2.700	Feb. 14	1000	2,170 61.5	9.31 2.838
Feb. 3	2100	*3,960 112	13.22 4.029	Mar. 7	1400	1,840 52.1	8.44 2.573

Minimum discharge, 67 ft³/s (1.90 m³/s) for part or all of each day June 20-22; minimum gage height, 1.88 ft (0.573 m) Oct. 17, 18, 22, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	92	97	1720	293	416	208	231	97	198	848	188
2	81	91	116	1130	377	351	203	212	96	162	832	152
3	79	88	118	752	3100	320	193	193	95	124	570	142
4	79	86	106	1060	3730	299	190	177	100	109	399	139
5	79	85	97	816	2610	304	181	162	102	121	289	131
6	78	83	93	598	1240	1040	175	155	92	100	245	132
7	78	82	92	500	861	1670	166	155	88	96	222	134
8	78	82	91	715	674	1500	161	231	85	96	200	127
9	78	82	91	752	586	1070	190	271	82	113	192	131
10	81	103	89	596	755	733	236	210	79	171	219	149
11	86	177	89	451	686	579	207	177	78	235	267	168
12	83	159	113	377	733	495	181	155	76	207	312	214
13	81	127	236	663	1880	438	164	144	74	299	269	219
14	79	112	215	1090	2080	390	154	135	74	244	222	197
15	78	103	262	943	1290	351	150	131	74	210	210	170
16	77	100	267	689	1030	329	149	127	73	186	816	144
17	77	99	215	534	1410	308	149	123	71	157	933	129
18	78	97	193	451	1120	286	147	119	71	152	611	123
19	79	93	190	401	861	271	147	116	71	197	418	119
20	78	92	170	358	654	256	149	112	68	162	300	115
21	78	93	152	329	544	242	273	110	67	135	249	113
22	77	95	145	308	473	235	360	147	70	126	222	110
23	78	92	139	300	418	253	278	162	79	126	208	109
24	79	97	137	327	377	253	214	140	72	142	188	107
25	107	93	179	304	347	254	414	131	72	147	173	106
26	202	91	212	274	325	245	960	126	78	147	162	106
27	192	89	271	253	407	222	615	123	145	152	154	105
28	139	88	473	240	469	207	434	119	323	157	149	105
29	115	86	851	231	---	200	318	109	242	219	149	103
30	105	86	651	224	---	195	264	103	207	1010	265	102
31	96	---	1170	229	---	195	---	99	---	1230	262	---
TOTAL	2857	2943	7320	17615	29330	13907	7630	4705	3001	6930	10555	4089
MEAN	92.2	98.1	236	568	1048	449	254	152	100	224	340	136
MAX	202	177	1170	1720	3730	1670	960	271	323	1230	933	219
MIN	77	82	89	224	293	195	147	99	67	96	149	102
CFSM	.45	.48	1.15	2.77	5.11	2.19	1.24	.74	.49	1.09	1.66	.66
IN.	.52	.53	1.33	3.20	5.32	2.52	1.38	.85	.54	1.26	1.92	.74
AC-FT	5670	5840	14520	34940	58180	27580	15130	9330	5950	13750	20940	8110
CAL YR 1981	TOTAL	59371	MEAN 163	MAX 2190	MIN 65	CFSM .80	IN 10.77	AC-FT 117800				
WTR YR 1982	TOTAL	110882	MEAN 304	MAX 3730	MIN 67	CFSM 1.48	IN 20.12	AC-FT 219900				

02370250 BIG JUNIPER CREEK NEAR SPRING HILL, FL

LOCATION.--Lat 30°47'06", long 86°53'28", in NE¼ sec.12, T.3 N., R.27 W., Santa Rosa County, Hydrologic Unit 03140104, near center of channel on upstream side of bridge, 2.5 mi (4.0 km) downstream from Sweetwater Creek, 3.2 mi (5.2 km) east of Spring Hill, 8.3 mi (13.3 km) above mouth, and 8.7 mi (14.0 km) northwest of Harold.

DRAINAGE AREA.--113 mi² (293 km²).

PERIOD OF RECORD.--

DISCHARGE: February 1980 to current year (gage heights and discharge measurements only).

WATER TEMPERATURE: April 1980 to current year.

GAGE.--Nonrecording gage and crest-stage gage. Altitude of gage is 33 ft (10.1 m), from topographic map.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum measured, 838 ft³/s (23.7 m³/s) July 30, 1982, gage height, 4.26 ft (1.298 m); minimum measured, 70 ft³/s (1.98 m³/s) corrected, July 9, 1981, gage height, 0.90 ft (0.274 m).

WATER TEMPERATURE: Maximum observed, 25.5°C July 9, 1981; minimum observed, 13.0°C Jan. 8, 1982.

DISCHARGE MEASUREMENTS AND WATER TEMPERATURES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)
OCT					MAY				
29...	1637	1.27	97	16.0	13...	1639	1.30	99	21.0
JAN					JUL				
08...	1118	3.33	446	13.0	30...	1332	4.26	838	--
MAR									
26...	1018	1.92	172	15.0					

BLACKWATER RIVER BASIN

02370500 BIG COLDWATER CREEK NEAR MILTON, FL

LOCATION.--Lat 30°42'30", long 86°58'20", in SW¼ sec.5, T.2 N., R.27 W., Santa Rosa County, Hydrologic Unit 03140104, near right bank on downstream side of bridge on State Highway 191, 3 mi (5 km) upstream from mouth, and 6.5 mi (10.5 km) northeast of Milton.

DRAINAGE AREA.--237 mi² (614 km²).

PERIOD OF RECORD.--October 1938 to June 1979, October 1979 to September 1980 (gage heights and discharge measurements only), October 1980 to current year. Monthly discharge only for some periods, published in WSP 1304. Prior to October 1956, published as Coldwater Creek near Milton. October 1956 to September 1957, published as Big Coldwater River near Milton.

REVISED RECORDS.--WSP 892: 1939. WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 9.10 ft (2.774 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 2, 1938, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--42 years (water years 1938-78, 1981-82), 535 ft³/s (15.151 m³/s) 30.65 in/yr (778 mm).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,000 ft³/s (906 m³/s) June 4, 1970, gage height, 21.41 ft (6.526 m), from floodmark; minimum, 156 ft³/s (4.42 m³/s) June 10, 11, 1956; minimum gage height, 0.94 ft (0.287 m) Dec. 11, 1938.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,700 ft³/s (76.5 m³/s) and maximum (*);

Date	Time	Discharge (ft³/s) (m³/s)	Gage height (ft) (m)
Feb. 4	1200	*6,010 170	10.46 3.188

Minimum discharge, 198 ft³/s (5.61 m³/s) for part or all of June 20, 21, 24, gage height, 2.87 ft (0.875 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	231	243	259	1560	415	599	380	344	265	613	1750	285
2	229	241	299	1040	578	517	364	322	257	452	1130	271
3	223	239	277	809	2740	470	349	305	251	339	786	263
4	221	239	255	806	5160	447	334	291	251	326	573	275
5	221	237	243	739	2310	465	329	281	277	427	493	271
6	219	233	237	570	1040	1100	326	271	301	351	400	265
7	219	227	235	509	803	1860	307	285	261	344	372	263
8	217	221	233	719	690	1770	303	661	241	324	351	259
9	217	235	229	823	643	1030	336	703	235	339	336	265
10	227	334	225	593	849	732	351	470	231	349	349	372
11	235	457	225	462	853	619	329	369	225	517	405	547
12	225	334	245	430	790	576	312	324	221	690	473	445
13	221	283	310	706	1440	534	301	299	217	786	442	422
14	212	259	362	1080	1590	504	297	283	215	531	445	447
15	208	247	470	941	956	475	297	275	215	455	382	465
16	206	243	450	680	1050	455	295	267	208	450	422	346
17	206	243	359	539	1340	437	289	259	206	407	504	297
18	210	239	344	470	1440	417	297	255	208	372	496	279
19	227	237	329	442	894	400	295	251	204	344	437	267
20	227	247	299	420	693	387	310	253	200	380	369	259
21	219	251	285	397	607	377	515	257	202	507	341	253
22	217	241	279	382	550	385	545	291	202	480	319	243
23	225	239	273	380	509	435	410	303	202	407	303	239
24	223	247	273	422	485	445	341	307	208	425	293	237
25	295	255	291	392	470	447	457	307	243	507	287	235
26	410	249	331	356	465	422	668	339	341	517	281	235
27	377	245	400	336	616	382	499	390	517	395	279	233
28	297	245	649	326	719	356	390	329	729	349	319	233
29	267	239	806	324	---	346	356	289	473	967	297	229
30	253	235	709	324	---	344	382	267	457	1300	322	225
31	245	---	986	349	---	351	---	265	---	2150	310	---
TOTAL	7429	7684	11167	18326	30695	18084	10964	10112	8263	16800	14266	8925
MEAN	240	256	360	591	1096	583	365	326	275	542	460	298
MAX	410	457	986	1560	5160	1860	668	703	729	2150	1750	547
MIN	206	221	225	324	415	344	289	251	200	324	279	225
CFSM	1.01	1.08	1.52	2.49	4.62	2.46	1.54	1.38	1.16	2.29	1.94	1.26
IN.	1.17	1.21	1.75	2.88	4.82	2.84	1.72	1.59	1.30	2.64	2.24	1.40
AC-FT	14740	15240	22150	36350	60880	35870	21750	20060	16390	33320	28300	17700

CAL YR 1981	TOTAL	128591	MEAN	352	MAX	4310	MIN	164	CFSM	1.49	IN	20.18	AC-FT	255100
WTR YR 1982	TOTAL	162715	MEAN	446	MAX	5160	MIN	200	CFSM	1.88	IN	25.54	AC-FT	322700

02370700 POND CREEK NEAR MILTON, FL

LOCATION.--Lat 30°40'50", long 87°07'55", in SE¼ sec.15, T.2 N., R.29 W., Santa Rosa County, Hydrologic Unit 03140104, near center of span on downstream side of bridge on State Highway 191, 0.6 mi (1.0 km) downstream from Reader Creek, 6.4 mi (10.3 km) northwest of Milton, and 10 mi (16 km) upstream from mouth.

DRAINAGE AREA.--58.7 mi² (152.0 km²).

PERIOD OF RECORD.--

DISCHARGE: January 1958 to September 1978; October 1978 to September 1979 (discharge measurements and fragmentary gage-height record); October 1979 to current year (gage heights and discharge measurements only).

WATER TEMPERATURE: April 1980 to current year. Records of periodic water temperature observations prior to April 1980 are available in the files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is 47.45 ft (14.463 m) National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum discharge, 4,580 ft³/s (130 m³/s), June 3, 1970, gage height, 12.97 ft (3.953 m); minimum, 26 ft³/s (0.74 m³/s) Sept. 9-16, 1968; minimum gage height, 2.31 ft (0.704 m) Oct. 19-24, 28, 29, Nov. 1-3, 1968.

WATER TEMPERATURE: Maximum observed 23.0°C August 13, 1980; minimum observed, 10.5°C Jan. 15, 1981.

DISCHARGE MEASUREMENTS AND WATER TEMPERATURES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)
OCT					MAY				
29...	1202	2.96	40	15.0	13...	1228	3.00	43	18.0
JAN					JUL				
07...	1116	3.14	48	14.5	28...	1826	2.90	41	22.5
MAR									
25...	1646	3.40	61	17.5					

ESCAMBIA RIVER BASIN

02375500 ESCAMBIA RIVER NEAR CENTURY, FL
(National stream-quality accounting network station)

LOCATION.--Lat 30°57'54", long 87°14'03", in NW¼ sec.10, T.5 N., R.30 W., Santa Rosa County, Hydrologic Unit 03140305, on left bank 16 ft (5 m) downstream from bridge on State Highway 4, 1.2 mi (1.9 km) downstream from Escambia Creek, 1.7 mi (2.7 km) east of Century, and 52 mi (84 km) upstream from mouth.

DRAINAGE AREA.--3,817 mi² (9,886 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1934 to current year.

REVISED RECORDS.-- WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 28.34 ft (8.638 m) National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to Jan. 13, 1940, nonrecording gage at same site and datum.

REMARKS.--Records good, except those below 6,000 ft³/s (170 m³/s), which are fair.

AVERAGE DISCHARGE.--48 years, 6,305 ft³/s, (178.6 m³/s), 22.43 in/yr, (570 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92,300 ft³/s (2,610 m³/s) Apr. 12, 1975, gage height, 23.32 ft (7.108 m); minimum, 578 ft³/s (16.4 m³/s) Oct. 23, 1968; minimum gage height, 1.30 ft (0.396 m) Sept. 15, Oct. 20, 21, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1850, 37.8 ft (11.52 m), March 1929, present datum, discharge not determined, from information by Corps of Engineers, Mobile District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 36,300 ft³/s (1,030 m³/s) Feb. 5, gage height, 18.12 ft (5.523 m); minimum, 829 ft³/s (23.5 m³/s) for all or part of each day Oct. 3, 4, 6, 8; minimum gage height, 2.40 ft (0.731 m) Oct. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	1010	1140	1320	10800	3900	7960	3990	7630	2890	2270	13500	1640		
2	896	1140	1500	13600	5010	7490	4030	7190	2530	2080	14200	1560		
3	847	1140	1910	14100	15000	6900	3670	5860	2150	1820	10600	1510		
4	833	1040	1670	14400	28600	6470	3470	5200	2270	1780	7250	1610		
5	842	1190	1470	13600	35600	6290	3260	4530	2700	2060	5450	1790		
6	842	1110	1510	11900	34500	7370	3170	4100	2740	1960	4410	1750		
7	838	1050	1500	10600	31600	12500	3020	3630	2730	1710	3780	1590		
8	833	1010	1440	13000	30800	17100	2950	3240	2250	1410	3480	1530		
9	842	1010	1290	14600	31200	18400	3180	5750	1890	1460	3770	1470		
10	887	1280	1300	14000	34400	17600	4130	7310	1600	1530	3980	1710		
11	981	1700	1370	12200	33600	13100	4720	7870	1450	1770	4300	2260		
12	1140	2180	1330	11000	29400	13200	3900	8220	1370	2130	4320	2170		
13	1180	1840	1720	11000	30800	11400	3170	9180	1550	3190	4850	2170		
14	1060	1750	2140	13000	25700	10100	2750	9710	1400	3150	4840	2640		
15	972	1710	2920	14600	22000	8550	2690	8380	1410	2760	4190	2390		
16	977	1690	3270	14000	18300	6900	2600	5860	1330	2350	4120	2180		
17	945	1540	2800	12300	17100	6100	2460	4090	1370	1980	5130	1980		
18	959	1370	2850	9730	17800	5650	2380	3100	1320	2370	5450	2260		
19	959	1390	2660	7790	18300	5350	2640	2700	1300	2580	5390	2080		
20	927	1270	2600	6950	17100	4730	2660	2600	1300	2580	4600	1720		
21	1010	1260	2250	6190	15500	4410	5830	2240	1270	3480	3640	1640		
22	1060	1310	2200	5590	13200	4280	13200	2250	1800	4380	3140	1580		
23	1120	1320	2130	5240	11300	4310	16800	2280	2040	3590	2840	1560		
24	986	1280	1870	5310	9870	4660	16200	2210	1730	390	2550	1520		
25	963	1220	2300	5070	8250	4910	13400	3150	1470	6430	2410	1540		
26	1150	1310	3600	4560	6950	4940	11500	2990	1550	6550	2060	1460		
27	1350	1290	4370	4230	6710	4930	11900	2990	1860	5920	2000	1390		
28	1520	1270	5670	3750	7810	4270	11300	3010	2170	4490	1860	1310		
29	1220	1330	6930	3850	---	4010	10100	2780	2450	3760	1810	1290		
30	1090	1190	9230	3720	---	3850	8540	2680	2140	4510	1890	1280		
31	1220	---	8880	3640	---	4200	---	2780	---	7340	1720	---		
TOTAL	31459	40330	88000	294320	560300	241930	183610	145510	56030	97320	143530	52580		
MEAN	1015	1344	2839	9494	20010	7804	6120	4694	1868	3139	4630	1753		
MAX	1520	2180	9230	14600	35600	18400	16800	9710	2890	7340	14200	2640		
MIN	833	1010	1290	3640	3900	3850	2380	2210	1270	1410	1720	1280		
CFSM	.27	.35	.74	2.49	5.24	2.05	1.60	1.23	.49	.82	1.21	.46		
IN.	.31	.39	.86	2.87	5.46	2.36	1.79	1.42	.55	.95	1.40	.51		
AC-FT	62400	79990	174500	583800	1111000	479900	364200	288600	111100	193000	284700	104300		
CAL YR 1981	TOTAL	1307278	MEAN	3582	MAX	55500	MIN	833	CFSM	.94	IN	12.74	AC-FT	2593000
WTR YR 1982	TOTAL	1934919	MEAN	5301	MAX	35600	MIN	833	CFSM	1.39	IN	18.86	AC-FT	3838000

02375500 ESCAMBIA RIVER NEAR CENTURY, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1952 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MP (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)
NOV 19...	1430	1460	143	6.8	16.0	6.0	9.2	20	39	35	6
JAN 28...	1345	3820	99	6.5	10.0	15	11.1	55	18	29	0
MAR 30...	1600	3930	101	7.3	17.0	14	8.8	23	43	33	4
MAY 19...	1500	2660	84	7.4	25.0	17	7.4	58	29	28	0
JUL 23...	1610	3540	84	7.2	27.0	22	7.3	76	160	23	1
SEP 06...	1740	1710	130	7.4	26.5	5.2	7.8	310	72	40	4

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)
NOV 19...	12	1.2	11	40	.8	1.1	29	8.9	15	10	<.1
JAN 28...	9.7	1.1	6.2	31	.5	1.0	19	12	11	6.9	.1
MAR 30...	11	1.3	6.2	29	.5	.7	29	2.8	6.5	6.8	.1
MAY 19...	9.2	1.1	4.4	25	.4	.8	28	2.2	5.0	4.6	<.1
JUL 23...	7.6	.9	6.6	38	.6	.8	22	2.7	7.0	6.3	<.1
SEP 06...	14	1.3	9.9	34	.7	.7	36	2.8	8.0	9.4	<.1

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS TOTAL (MG/L AS PO4)
NOV 19...	7.9	89	76	.12	351	.19	<.010	.01	.40	.050	.15
JAN 28...	8.3	66	56	.09	681	.18	.070	.09	.42	.040	.12
MAR 30...	7.7	66	58	.09	700	.16	.070	.09	.35	.040	.12
MAY 19...	7.5	59	50	.08	424	.17	.040	.05	.60	.060	.18
JUL 23...	7.7	64	50	.09	612	.14	.050	.06	.40	.040	.12
SEP 06...	8.2	78	73	.11	360	.13	.020	.03	--	.030	.09

DATE	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDED TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
NOV 19...	.020	<.010	--	1	0	1	<100	24	<1	<1	10
JAN 28...	<.010	<.010	--	1	0	1	<100	29	<1	<1	20
MAR 30...	<.010	.080	.25	--	--	--	--	--	--	--	--
MAY 19...	<.010	<.010	--	1	--	<1	<100	27	<1	<1	20
JUL 23...	.010	<.010	--	--	--	--	--	--	--	--	--
SEP 06...	<.010	<.010	--	1	0	1	<100	29	1	<1	10

ESCAMBIA RIVER BASIN

02375500 ESCAMBIA RIVER NEAR CENTURY, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	CHROMIUM, SUS- PENDED RECOV. (UG/L AS CR)	CHROMIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDED RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDED RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)
NOV 19...	--	<10	1	0	1	6	1	5	760	630	130
JAN 28...	10	10	1	--	<1	6	3	3	970	890	83
MAR 30...	--	--	--	--	--	--	--	--	--	--	--
MAY 19...	10	10	1	0	2	4	1	3	1600	1400	160
JUL 23...	--	--	--	--	--	--	--	--	--	--	--
SEP 06...	--	<10	3	--	<1	3	2	1	1200	1100	62

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDED RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGANESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGANESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGANESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDED RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)
NOV 19...	4	--	<1	60	30	35	<.1	<.1	4	3	1
JAN 28...	2	1	1	70	30	39	<.1	<.1	5	4	1
MAR 30...	--	--	--	--	--	--	--	--	--	--	--
MAY 19...	3	1	2	80	40	41	<.1	<.1	6	2	4
JUL 23...	--	--	--	--	--	--	--	--	--	--	--
SEP 06...	4	3	1	50	10	38	<.1	<.1	3	1	2

DATE	SELENIUM, TOTAL (UG/L AS SE)	SELENIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDED RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	SEDIMENT, SUS- PENDED (MG/L)	SEDIMENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 19...	<1	<1	<1	<1	40	--	<4	13	51	46
JAN 28...	<1	<1	1	<1	10	2	8	32	330	38
MAR 30...	--	--	--	--	--	--	--	24	255	50
MAY 19...	<1	<1	<1	<1	10	--	<3	43	309	26
JUL 23...	--	--	--	--	--	--	--	--	--	--
SEP 06...	<1	<1	<1	<1	30	--	<4	20	92	40

02375800 MOORE CREEK NEAR CHUMUCKLA, FL

LOCATION.--Lat 30°48'35", long 87°15'14", in SW¼ sec.34, T.4 N., R.30 W., Santa Rosa County, Hydrologic Unit 03140305, near center on downstream side of bridge on county road, 2.5 mi (4.0 km) northwest of Chumuckla, and 3.4 mi (5.5 km) upstream from mouth.

DRAINAGE AREA.--22.0 mi² (57.0 km²).

PERIOD OF RECORD.--

DISCHARGE: March 1958 to December 1961, May 1965 to April 1967, June 1977 (low-flow partial-record station); October 1979 to current year (gage heights and discharge measurements only).

WATER TEMPERATURE: March 1958 to December 1961, May 1965 to April 1967, June 1977; April 1980 to current year. Records of periodic water temperature observations prior to May 1965 are available in the files of the Geological Survey.

GAGE.--Nonrecording gage and crest-stage gage. Altitude of gage is 36 ft (10.9 m), from topographic map. Prior to June 15, 1977, nonrecording gage at present site at datum 45.29 ft (13.804 m) National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--

DISCHARGE: Maximum measured, 67 ft³/s (1.90 m³/s) June 15, 1977; minimum, 22 ft³/s (0.62 m³/s) Oct. 28, 1981.

WATER TEMPERATURE: Maximum observed, 24.0°C July 28, 1982; minimum observed, 10.0°C Jan. 15, 1981.

DISCHARGE MEASUREMENTS AND WATER TEMPERATURES, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	DATE	TIME	STREAM STAGE (FT ABOVE DATUM)	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)
OCT					MAY				
28...	1627	10.36	22	16.0	12...	1851	10.50	25	21.0
JAN					JUL				
06...	1730	10.58	27	14.0	28...	1608	10.64	26	24.0
MAR									
25...	1422	10.73	33	17.5					

ESCAMBIA RIVER BASIN

02376000 PINE BARREN CREEK NEAR BARTH, FL

LOCATION.--Lat 30°47'55", long 87°22'05", in SW¼ sec.5, T.3 N., R.31 W., Escambia County, Hydrologic Unit 03140305, near right bank 10 ft (3 m) downstream from Wiggins Bridge on private road, 0.3 mi (0.5 km) upstream from Blue Water Creek, 4.0 mi (6.4 km) northwest of Barth, and 7.3 mi (11.7 km) upstream from mouth.

DRAINAGE AREA.--75.3 mi² (195.0 km²).

PERIOD OF RECORD.--October 1952 to current year.

REVISED RECORDS.--WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 29.86 ft (9.101 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--30 years, 155 ft³/s (4.390 m³/s), 27.95 in/yr (710 mm).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,800 ft³/s (702 m³/s), Apr. 14, 1955, from rating extended above 2,100 ft³/s (59.5 m³/s) on basis of a slope-area measurement of peak flow; gage height, 18.0 ft (5.49 m) from floodmark, minimum, 51 ft³/s (1.44 m³/s), June 8, 9, 1956; minimum gage height, 3.13 ft (0.954 m) Sept. 3, 4, 1956; Oct. 20, 21, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 700 ft³/s (19.8 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)
Feb. 4	0300	1,660 4.70	11.73 3.575	Feb. 13	1300	*1,900 53.8	12.17 3.709

Minimum discharge, 62 ft³/s (1.76 m³/s) June 20, 21, gage height, 3.37 ft (1.027 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	80	98	304	106	121	116	86	71	104	320	136
2	76	81	112	237	228	114	103	83	68	88	411	86
3	75	80	88	459	1030	109	103	83	71	83	296	81
4	76	80	84	293	1090	106	97	80	103	114	127	116
5	77	82	82	161	256	119	95	77	193	80	106	89
6	76	80	82	118	153	344	95	76	122	88	98	83
7	77	78	82	116	128	447	89	91	84	79	96	80
8	77	77	82	221	117	401	92	221	75	85	99	78
9	78	80	81	241	116	171	95	126	70	132	106	79
10	81	109	80	120	174	135	92	91	68	94	118	93
11	80	104	80	102	152	123	91	83	66	91	194	112
12	81	88	92	103	224	118	87	78	98	147	141	100
13	81	84	115	261	1190	115	86	77	77	125	103	122
14	76	82	111	271	544	110	86	74	71	154	93	139
15	75	81	185	194	235	108	86	74	67	151	107	94
16	77	82	122	130	314	106	85	76	65	165	183	83
17	76	83	98	112	276	104	84	71	74	102	247	79
18	79	81	99	103	160	101	86	71	82	90	138	82
19	83	82	93	100	131	99	84	71	69	176	109	120
20	78	88	89	98	121	98	89	71	65	218	94	85
21	77	83	88	95	116	96	162	70	63	277	89	78
22	79	82	90	93	112	109	122	87	114	294	101	76
23	79	82	92	98	108	146	95	89	101	126	91	74
24	79	87	90	105	107	126	87	142	73	124	83	74
25	87	86	107	93	106	120	127	142	70	280	81	74
26	111	83	105	89	108	115	149	96	95	166	79	74
27	94	83	142	87	169	104	102	95	201	107	78	73
28	85	83	163	87	142	99	91	79	271	93	81	73
29	82	81	194	88	---	98	86	74	138	114	79	71
30	81	81	143	87	---	96	88	71	139	177	83	70
31	80	---	270	98	---	107	---	70	---	277	93	---
TOTAL	2488	2513	3439	4764	7713	4365	2950	2775	2924	4401	4124	2674
MEAN	80.3	83.8	111	154	275	141	98.3	89.5	97.5	142	133	89.1
MAX	111	109	270	459	1190	447	162	221	271	294	411	139
MIN	75	77	80	87	106	96	84	70	63	79	78	70
CFSM	1.07	1.11	1.47	2.05	3.65	1.87	1.31	1.19	1.30	1.89	1.77	1.18
IN.	1.23	1.24	1.70	2.35	3.81	2.16	1.46	1.37	1.44	2.17	2.04	1.32
AC-FT	4930	4980	6820	9450	15300	8660	5850	5500	5800	8730	8180	5300
CAL YR 1981	TOTAL	51958	MEAN 142	MAX 4090	MIN 75	CFSM 1.89	IN 25.67	AC-FT 103100				
WTR YR 1982	TOTAL	45130	MEAN 124	MAX 1190	MIN 63	CFSM 1.65	IN 22.29	AC-FT 89520				

303313087140000 SOUTH MONITOR CREEK NEAR PENSACOLA, FL

LOCATION.--Lat 30°33'13", long 87°14'00", in sec.25, T.1 N., R.30 W., Escambia County, Hydrologic Unit 03140305, at Scenic Hills Wastewater Treatment Plant 10 mi (16.1 km) north of Pensacola.

PERIOD OF RECORD.--February 1977 to September 1982 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED SATUR- ATION)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)
DEC 02...	1330	.03	175	5.5	15.0	5.8	--	--	7	0
APR 20...	1015	.06	48	5.7	20.0	--	--	--	--	--
JUN 15...	1000	.00	150	6.4	23.0	--	6.6	76	3	0

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	ALKA- LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)
DEC 02...	1.5	.7	31	89	5.4	1.6	9	7.0	8.0	45
APR 20...	--	--	--	--	--	--	--	--	--	--
JUN 15...	.7	.3	29	91	7.5	2.4	20	16	--	13

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
DEC 02...	13	26	.0	4.9	120	83	.16	.01	.01	.010
APR 20...	--	8.5	--	--	43	--	.06	.01	.08	.000
JUN 15...	11	23	<.1	--	97	--	.13	.00	.09	.010

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	IRON, DIS- SOLVED (UG/L AS FE)	CARBON, ORGANIC TOTAL (MG/L AS C)
DEC 02...	.02	.020	.75	.77	.79	.220	.220	260	7.0
APR 20...	.08	.020	.37	.39	.47	.160	.140	--	4.5
JUN 15...	.10	.020	1.1	1.12	1.2	.700	.560	--	19

ESCAMBIA RIVER BASIN

303327087135510 PENSACOLA SCENIC HILLS SETTLING POND OUTFLOW NEAR PENSACOLA, FL

LOCATION.--Lat 30°33'27", long 87°13'55", in sec. 25, T.1 N., R.30 W., Escambia County, Hydrologic Unit 03140305, at Scenic Hills Wastewater Treatment Plant, 10 mi (15.1 km) north of Pensacola.

PERIOD OF RECORD.--May 1981 to September 1982 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM
DEC 01...	1300	320	9.2	20.0	26	0	8.2	1.4	44	72
APR 21...	1400	320	10.2	25.0	--	--	--	--	--	--
JUN 16...	0930	310	10.0	29.5	15	--	4.0	1.1	59	84
SEP 08...	1445	250	10.1	26.0	--	--	--	--	--	--

DATE	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	BICAR- BONATE FET-FLD (MG/L AS HCO3)	ALKA- LINITY FIELD (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
DEC 01...	3.9	8.1	15	27	.0	24	34	2.2	196	.27
APR 21...	--	--	--	--	--	--	37	--	188	.26
JUN 16...	7.0	8.4	--	--	--	21	39	<.1	178	.24
SEP 08...	--	--	--	--	--	--	30	--	163	.22

DATE	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
DEC 01...	8.9	.060	9.0	.020	2.8	2.82	12	7.90	7.60	11
APR 21...	5.9	.120	6.0	.020	3.2	3.22	9.2	5.80	5.00	6.7
JUN 16...	--	.010	--	.010	4.2	4.21	--	5.30	4.80	19
SEP 08...	--	.010	--	.010	2.5	2.51	--	--	--	17

303342087140400 TRIBUTARY TO CLEAR CREEK NEAR PENSACOLA, FL

LOCATION.--Lat 30°33'42", long 87°14'04", in sec.25, T.1 N., R.30 W., Escambia County, Hydrologic Unit 03140305, at Scenic Hills Wastewater Treatment Plant 10.0 mi (16.1 km) north of Pensacola.

PERIOD OF RECORD.--September 1973 to September 1982 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)
APR 21...	1030	.20	49	5.1	21.0	--	--	8.9	39	.05	.02
SEP 08...	1120	.22	78	4.6	23.0	7.8	90	11	51	.07	.03

DATE	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
APR 21...	.03	.000	.03	.020	.07	.09	.12	.010	.010	3.9
SEP 08...	.00	.000	.00	.020	.02	.04	.04	--	--	3.6

PERDIDO RIVER BASIN

02376300 BRUSHY CREEK NEAR WALNUT HILL, FL

LOCATION.--Lat 30°53'21", long 87°32'24", in SE¼ sec. 4, T.4 N., R.33 W., Escambia County, Hydrologic Unit 03140106, near right bank on downstream side of county road bridge, 1,000 ft (305 m) downstream from Rocky Creek, 2.0 mi (3.2 km) west of Walnut Hill, and 7.9 mi (12.7 km) upstream from mouth.

DRAINAGE AREA.--49 mi² (127 km²), approximately.

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

REVISED RECORDS.--WSP 1906: 1958-60. WDR FL-80-4: 1958-59, 1961, 1963-65, 1967-68, 1970, 1973, 1975-79 (M).

GAGE.--Nonrecording gage. Datum of gage is 118.32 ft (36.064 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 2, 1978, water-stage recorder at same site and datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--24 years, 106 ft³/s (3.002 m³/s), 29.38 in/yr (746 mm).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,680 ft³/s (274 m³/s) Mar. 31, 1962, gage height, 14.96 ft (4.560 m) extended above 2,500 ft³/s (70.8 m³/s); minimum discharge, 36 ft³/s (1.02 m³/s), part or all of each day Sept. 9-16, 1968; minimum gage height, 2.47 ft (0.753 m) Oct. 10, 11, 15-17, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft³/s (22.7 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)
Feb. 3	Unknown	850 24.1	^a 8.80 2.682	Feb. 12	Unknown	*980 27.8	^a 9.00 2.743

a From graph based on gage readings

Minimum discharge, 46 ft³/s (1.30 m³/s) part or all of each day June 15-21; minimum gage height, 2.56 ft (0.780 m) June 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	50	61	191	68	78	73	64	51	79	195	106
2	48	49	64	137	91	71	71	62	51	78	141	77
3	48	49	55	124	478	71	66	61	51	66	101	66
4	47	49	53	130	500	69	62	60	51	56	74	63
5	47	49	51	101	152	71	63	60	62	53	62	61
6	47	49	50	74	102	156	72	60	61	69	61	54
7	47	48	50	88	87	301	66	64	58	62	58	51
8	47	48	50	248	79	351	64	85	53	55	57	50
9	47	49	50	149	92	200	64	72	51	93	60	51
10	50	71	50	88	90	94	64	60	49	75	65	57
11	52	62	49	71	102	79	64	56	47	54	82	58
12	51	54	55	69	390	79	63	55	53	61	75	54
13	49	53	77	141	499	78	60	55	48	58	93	166
14	47	51	156	155	208	74	59	53	47	56	67	163
15	48	50	139	126	191	72	59	53	46	56	71	84
16	48	50	79	92	225	71	59	52	46	63	71	68
17	47	51	65	76	169	69	59	51	46	58	66	58
18	48	51	64	71	122	68	60	50	46	52	63	147
19	48	51	58	67	96	67	60	50	46	52	58	292
20	48	51	55	65	83	65	63	50	46	59	55	125
21	48	51	55	65	77	64	106	50	48	60	52	66
22	48	50	55	64	74	79	86	51	73	58	51	61
23	49	50	55	65	72	87	68	70	75	58	49	57
24	49	54	58	64	71	80	64	129	58	81	48	55
25	51	54	88	61	69	79	88	91	57	148	47	54
26	67	52	77	59	69	85	93	62	57	132	47	54
27	59	52	72	59	111	75	75	57	94	75	47	52
28	53	52	89	59	92	72	71	54	142	56	47	51
29	52	51	82	59	---	68	68	54	98	65	47	51
30	51	51	81	59	---	65	66	53	81	250	115	51
31	50	---	173	60	---	76	---	52	---	297	123	---
TOTAL	1539	1552	2216	2937	4459	3014	2056	1896	1792	2535	2248	2403
MEAN	49.6	51.7	71.5	94.7	159	97.2	68.5	61.2	59.7	81.8	72.5	80.1
MAX	67	71	173	248	500	351	106	129	142	297	195	292
MIN	47	48	49	59	68	64	59	50	46	52	47	50
CFSM	1.01	1.06	1.46	1.93	3.25	1.98	1.40	1.25	1.22	1.67	1.48	1.64
IN.	1.17	1.18	1.68	2.23	3.39	2.29	1.56	1.44	1.36	1.92	1.71	1.82
AC-FT	3050	3080	4400	5830	8840	5980	4080	3760	3550	5030	4460	4770

CAL YR 1981	TOTAL	29746	MEAN	81.5	MAX	1760	MIN	46	CFSM	1.66	IN	22.58	AC-FT	59000
WTR YR 1982	TOTAL	28647	MEAN	78.5	MAX	500	MIN	46	CFSM	1.60	IN	21.75	AC-FT	56820

02376500 PERDIDO RIVER AT BARRINEAU PARK, FL
(National stream-quality accounting network station)

LOCATION.--Lat 30°41'25", long 87°26'25", in NW¼ sec.23, T.4 S., R.6 E., Baldwin County, Ala., Hydrologic Unit 03140106, on right bank 25 ft (8 m) downstream from bridge on county road, 1,000 ft (305 m) downstream from Alligator Creek, 0.5 mi (0.8 km) southwest of Barrineau Park, and 27 mi (43 km) upstream from mouth.

DRAINAGE AREA.--394 mi² (1,020 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1941 to current year.

REVISED RECORDS.--WSP 1384: Drainage area. WDR FL-76-4: 1973-75 (M).

GAGE.--Water-stage recorder. Datum of gage is 25.77 ft (7.855 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 22, 1949, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--41 years, 759 ft³/s (21.49 m³/s), 26.16 in/yr (664 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,000 ft³/s (1,100 m³/s) Apr. 15, 1955, gage height, 23.94 ft (7.297 m), from rating curve extended above 11,400 ft³/s (323 m³/s), based on slope-area study made in 1955; minimum, 188 ft³/s (5.32 m³/s) Oct. 12-18, 1973; minimum gage height, 1.24 ft (0.378 m) Oct. 1-6, 15-17, 20-25, 28-31, Nov. 1-3, 1968.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 15, 1929, reached a stage of 25.7 ft (7.83 m) present datum, from information by local resident (discharge not determined).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,380 ft³/s (95.7 m³/s) Feb. 4, gage height, 9.57 ft (2.917 m), no peak above base of 4,000 ft³/s (113 m³/s); minimum, 231 ft³/s (6.54 m³/s) June 21, gage height, 1.48 ft (0.451 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	273	285	312	1350	420	672	497	391	265	533	1380	447
2	270	283	347	1220	604	643	501	382	267	556	1950	429
3	266	283	346	1680	2870	595	472	376	259	517	1170	347
4	264	281	327	1480	3070	544	440	363	269	431	729	494
5	264	282	312	1030	2760	543	417	346	314	483	572	381
6	264	281	304	763	2580	1660	407	329	331	433	473	341
7	264	278	301	623	1380	1960	402	330	303	448	438	337
8	263	275	297	715	841	1840	390	469	271	426	436	311
9	264	277	295	919	674	1780	392	536	256	606	417	301
10	273	311	291	839	701	1560	388	434	248	622	454	305
11	277	348	289	802	757	1040	384	377	242	510	541	353
12	279	359	308	681	842	750	373	344	279	714	572	347
13	276	335	358	850	1940	630	362	325	280	786	447	457
14	270	317	397	1080	2190	565	354	311	253	552	405	704
15	267	305	629	1070	1760	523	349	303	244	539	381	652
16	266	299	609	1060	1950	498	345	297	237	567	395	544
17	265	298	498	971	1590	472	340	290	253	529	535	413
18	268	295	447	753	1320	454	339	283	276	447	485	365
19	278	293	414	605	1220	438	339	279	249	906	419	485
20	271	302	387	527	956	424	343	275	237	613	371	475
21	267	298	366	484	728	414	464	272	246	454	347	377
22	268	294	354	457	612	418	541	272	267	405	337	341
23	270	293	349	447	544	538	489	304	392	391	323	315
24	272	302	345	453	507	555	426	297	393	422	311	301
25	287	310	371	437	481	555	458	351	375	480	303	291
26	336	309	450	415	469	553	638	340	338	529	293	287
27	348	303	553	400	576	527	607	303	478	454	295	283
28	329	299	645	392	683	482	544	288	731	393	321	275
29	310	296	758	388	---	445	464	277	638	438	301	271
30	297	293	790	384	---	425	411	268	557	686	287	23
31	289	---	1000	399	---	436	---	262	---	1340	361	---
TOTAL	8655	8984	13449	23674	35025	22939	12876	10274	9748	17210	16049	11492
MEAN	279	299	434	764	1251	740	429	331	325	555	518	383
MAX	348	359	1000	1680	3070	1960	638	536	731	1340	1950	704
MIN	263	275	289	384	420	414	339	262	237	391	287	263
CFSM	.71	.76	1.10	1.94	3.18	1.88	1.09	.84	.83	1.41	1.32	.97
IN.	.82	.85	1.27	2.24	3.31	2.17	1.22	.97	.92	1.62	1.52	1.09
AC-FT	17170	17820	26680	46960	69470	45500	25540	20380	19340	34140	31830	22790
CAL YR 1981	TOTAL	202710	MEAN 555	MAX 12200	MIN 263	CFSM 1.41	IN 19.14	AC-FT 402100				
WTR YR 1982	TOTAL	190375	MEAN 522	MAX 3070	MIN 237	CFSM 1.33	IN 17.97	AC-FT 377600				

PERDIDO RIVER BASIN

02376500 PERDIDO RIVER AT BARRINEAU PARK, FL--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	OXYGEN, DIS- SOLVED (MG/L)	COLI- FORM, FECAL, 0.7 UM-MP (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
NOV 19...	1000	291	23	5.8	15.5	2.0	9.6	K9	32	4	0	.7
JAN 28...	0935	390	24	5.8	10.5	2.0	11.6	22	69	4	2	.7
MAR 30...	1050	426	22	6.1	16.0	2.0	9.2	130	36	4	0	.7
MAY 19...	1005	279	21	6.1	21.0	2.5	8.2	78	K210	4	0	.6
JUL 23...	1000	383	26	6.1	24.5	3.5	7.6	110	K140	4	0	.8
AUG 17...	1500	562	22	5.4	24.0	--	7.7	--	--	6	4	1.3
SEP 06...	0915	354	29	--	23.0	2.8	7.8	220	470	4	1	.8

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	ALKA- LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)
NOV 19...	.5	2.1	51	.5	.3	--	4.0	12	2.8	3.7	<.1	7.9
JAN 28...	.6	2.2	51	.5	.4	--	2.0	6.1	4.0	3.2	.0	7.8
MAR 30...	.6	2.3	54	.5	.1	--	4.0	6.2	1.1	3.5	<.1	7.0
MAY 19...	.5	2.0	53	.5	.2	--	4.0	6.2	1.0	3.7	<.1	6.6
JUL 23...	.5	2.2	53	.5	.2	--	4.0	6.2	2.0	3.7	<.1	7.7
AUG 17...	.6	1.9	40	.4	.4	2.0	--	17	4.4	2.8	<.1	5.7
SEP 06...	.6	2.2	51	.5	.1	--	3.0	--	2.0	3.6	<.1	7.9

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)
NOV 19...	24	21	.03	18.9	--	--	--	.23	.030	.04	.20	.060
JAN 28...	22	20	.03	23.2	--	--	--	.21	.040	.05	<.10	.020
MAR 30...	20	18	.03	23.0	--	--	--	.14	.040	.05	.28	.030
MAY 19...	15	17	.02	11.3	--	--	--	.19	.020	.03	.22	.070
JUL 23...	28	20	.04	29.0	--	--	--	.26	.040	.05	.30	.070
AUG 17...	--	19	.03	29.4	.14	ND	.14	--	--	--	--	--
SEP 06...	21	19	.03	20.1	--	--	--	.18	.030	.04	.60	.060

02376500 PERDIDO RIVER AT BARRINEAU PARK, FL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	PHOS- PHORUS TOTAL (MG/L AS PO4)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS PO4)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC SUS- PENDE TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA)	BARIUM, SUS- PENDE RECOV- ERABLE (UG/L AS BA)	BARIUM, DIS- SOLVED (UG/L AS BA)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)
NOV 19...	.18	.040	.010	.03	1	0	1	100	80	18	<1	1
JAN 28...	.06	<.010	<.010	--	1	1	<1	<100	--	22	<1	<1
MAR 30...	.09	<.010	<.010	--	--	--	--	--	--	--	--	--
MAY 19...	.21	.030	.020	.06	1	--	<1	<100	--	18	<1	<1
JUL 23...	.21	.020	.020	.06	--	--	--	--	--	--	--	--
AUG 17...	--	--	--	--	--	--	ND	--	--	--	--	2
SEP 06...	.18	.030	.030	.09	1	0	1	<100	--	23	1	<1

DATE	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, SUS- PENDE RECOV. (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, SUS- PENDE RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, SUS- PENDE RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)
NOV 19...	20	10	10	<1	--	1	5	0	5	480	440	40
JAN 28...	20	10	10	1	--	<1	5	1	4	330	280	51
MAR 30...	--	--	--	--	--	--	--	--	--	--	--	--
MAY 19...	10	--	<10	1	0	2	4	1	3	480	440	40
JUL 23...	--	--	--	--	--	--	--	--	--	--	--	--
AUG 17...	--	--	1	--	--	ND	--	--	--	--	--	300
SEP 06...	<10	--	<10	4	--	<1	6	5	1	710	660	53

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, SUS- PENDE RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI)	NICKEL, SUS- PENDE RECOV- ERABLE (UG/L AS NI)	NICKEL, DIS- SOLVED (UG/L AS NI)
NOV 19...	2	--	<1	20	10	10	<.1	<.1	3	2	1
JAN 28...	1	0	1	30	0	32	<.1	<.1	1	0	1
MAR 30...	--	--	--	--	--	--	--	--	--	--	--
MAY 19...	3	2	1	10	0	12	<.1	<.1	5	2	3
JUL 23...	--	--	--	--	--	--	--	--	--	--	--
AUG 17...	--	--	6	--	--	28	--	.2	--	--	--
SEP 06...	3	--	<1	20	2	18	<.1	<.1	4	1	3

DATE	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, SUS- PENDE RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. & FINER THAN .062 MM
NOV 19...	<1	<1	<1	<1	--	40	30	6	4	3.1	75
JAN 28...	<1	<1	<1	<1	--	30	6	24	6	6.3	50
MAR 30...	--	--	--	--	--	--	--	--	21	24	19
MAY 19...	<1	<1	<1	<1	--	20	20	4	6	4.5	50
JUL 23...	--	--	--	--	--	--	--	--	8	8.3	63
AUG 17...	--	--	--	--	90	--	--	40	--	--	--
SEP 06...	<1	<1	<1	<1	--	90	--	<4	9	8.6	56

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 and flood-hydrograph 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 and flood-hydrograph partial-record stations

The following table contains annual maximum discharges for crest-stage and flood hydrograph stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A flood hydrograph station is a continual-record station that records the river stage of storm events above a base stage. 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 and flood-hydrograph partial-record stations

Station No.	Station Name	Location	Drainage area (mi ²)	Period of Record	Date	Annual Maximum Gage height (feet)	Dis- charge (ft ³ /s)
Waccasassa River and coastal area between Withlacoochee and Suwannee Rivers							
02313400	Waccasassa River near Bronson, Fla.	Lat 29°31'32", long 82°42'58", in NE¼ sec.4,T.12 S., R.16 E., Levy County, Hydrologic Unit 03110101, at bridge on U.S. Highway Alternate 27, 2.5 mi (4.0 km) upstream from Little Wacca- sassa River, 5 mi (8 km) northwest of Bronson, and 28 mi (45 km) upstream from mouth. Datum of gage is 40.94 ft (12.479 m) National Geodetic Vertical Datum of 1929.	a229	1966-78 1980-82	1982	b3.86	b50
02313448	Little Wacasassa River near Bronson, Fla.	Lat 29°28'34", long 82°41'13", in NW¼ sec.2, T.12 S., R.16 E., Levy County, Hydrologic Unit 03110101, at bridge on U.S. Highway Alternate 27, 2.8 mi (4.5 km) upstream from mouth and 3.7 mi (6.0 km) northwest of Bronson. Datum of Gage is National Geodetic Vertical Datum of 1929.	c	1966-77 1980-82	1982	b4.05	b148
Alapaha River Basin							
02317630	Alapaha River near Jasper, Fla.	Lat 30°31'42", long 83°02'17", in SE¼ sec.32, T.2 N., R.13 E., Hamilton County, Hydrologic Unit 03110202, at bridge on U.S. Highway 41, 5.4 mi (8.7 km) west of Jasper and 11 mi (18 km) upstream from mouth. Datum of gage is National Geodetic Vertical Datum of 1929. Discontinued.	ad1720	1948 1966-77 1979-82	02-24-82	--	e3950
Santa Fe River Basin							
02321600	Olustee Creek near Lulu, Fla.	Lat 30°05'42", long 82°28'25", in SW¼ sec.36, T.4 S., R.18 E., Columbia County, Hydrologic Unit 03110206, at bridge on State Highway 100, 1.4 mi (2.3 km) southeast of Lulu, 7.4 mi (11.9 km) upstream from Swift Creek, and 17.6 mi (28.3 km) upstream from mouth. Datum of gage is 100.00 ft (30.480 m) National Geodetic Vertical Datum of 1929. Discontinued.	49.1	1964-82	1982	b14.44	b435

a Approximately

b Actual value less than indicated value, which is the minimum recordable value

c Indeterminate

d Does not include Little Alapaha River

e Estimated

Annual maximum discharge at crest-stage partial-record stations during water year 1982--Continued

Station No.	Station Name	Location	Drainage area (mi ²)	Period of Record	Date	Annual Maximum Gage height (feet)	Dis- charge (ft ³ /s)
Santa Fe River Basin--continued							
02321700	Swift Creek near Lake Butler, Fla.	Lat 30°03'28", long 82°25'10", in NW¼ sec.16, T.5 S., R.19 E., Union County, Hydrologic Unit 03110206, at bridge on State Highway 100, at Guilford, 5 mi (8 km) northwest of Lake Butler and 8.1 mi (13 km) upstream from mouth. Datum of gage is 109.56 ft (33.394 m) National Geodetic Vertical Datum of 1929. Discontinued.	46.0	^f 1957-60 1961-82	04-11-82	6.48	386
02326242	Aucilla River near Ashville, Fla.	Lat 30°35'45", long 83°43'15", in NW¼ sec.10, T.2 N., R.6 E., Jefferson County, Hydrologic Unit 03110103, on left bank on downstream side of bridge on State Highway S 146, 4.6 mi (7.4 km) southwest of Ashville, and 56.4 mi (90.8 km) upstream from mouth. Datum of gage is 81.17 ft (24.74 m) National Geodetic Vertical Datum of 1929.	223	1978-82	02-17-82	81.22	g
02326250	Aucilla River near Aucilla, Fla.	Lat 30°29'31", long 83°43'53", in NW¼ sec.16, T.1 N., R.6 E., Jefferson County, Hydrologic Unit 03110103, at bridge on U.S. Highway 90, 1.3 mi (2.1 km) northeast of Aucilla and 48 mi (77 km) upstream from mouth. Datum of gage is National Geodetic Vertical Datum of 1929.	345	1965-82	1982	^b 76.23	^b 975
02326261	Little Aucilla River near Cherry Lake, Fla.	Lat 30°37'36", long 83°29'44", in SW¼ sec.26, T.3 N., R.8 E., Madison County, Hydrologic Unit 03110103, at culvert on State Highway S253, 5.1 mi (8.2 km) northwest of Cherry Lake, and 11.9 mi (19.1 km) northwest of Madison. Datum of gage is 97.71 ft (29.782 m) National Geodetic Vertical datum of 1929.	^a 13.9	1970-82	1982	^b 6.00	^b 75
02326300	Little Aucilla River near Greenville, Fla.	Lat 30°31'10", long 83°35'14", in NE¼ sec.2, T.1 N., R.7 E., Madison County, Hydrologic Unit 03110103, at bridge on State Highway 150, 4.5 mi (7.2 km) northeast of Greenville, and 10 mi (16 km) upstream from mouth. Datum of gage is 86.30 ft (26.304 m) National Geodetic Vertical Datum of 1929. Discontinued.	90.7	1963-82	1982	^b 4.43	^b 212
St. Marks and Wakulla Rivers and coastal area between Aucilla and Ochlockonee Rivers							
^h 02326825	Northeast drain- age ditch at Hadley Road at Tallahassee, Fla.	Lat 30°30'12", long 84°14'17", in NW¼ sec.9, T.1 N., R.1 E., Leon County, Hydrologic Unit 03120001, on left bank, 5 ft (1.5 m) upstream from culvert on Hadley Road, 0.5 mi (0.8 km) west along Raymond Diehl Road from Olson Road, and 5.2 mi (8.4 km) northeast of the Florida Capitol Building at Tallahassee. Altitude of gage is 135 ft (41 m) from topographic map.	0.79	1979-82	02-09-82	2.03	6.0
^h 02326828	Northeast drain- age ditch at Capital Circle Tallahassee, Fla.	Lat 30°28'42", long 84°14'12", in SW¼ sec.16, T.1 N., R.1 E., Leon County, Hydrologic Unit 03120001, on right bank, 20 ft (6 m) upstream from culverts on Capital Circle Northeast, 2.6 mi (4.2 km) north of the Federal Corrections Institution, and 3.9 mi (6.3 km) northeast of the Florida Capitol Building at Tallahassee. Altitude of gage is 80 ft (24 m) from topographic map.	3.98	1979-82	07-28-82	19.56	138

a Approximately

b Actual value less than indicated value, which is the minimum recordable value

f Operated as a continuous/continual record gaging station

g Not determined

h Flood-hydrograph Station

Annual maximum discharge at crest-stage partial-record stations during water year 1981--Continued

Station No.	Station Name	Location	Drainage area (mi ²)	Period of Record	Date	Annual Maximum Gage height (feet)	Dis- charge (ft ³ /s)
St. Marks and Wakulla Rivers and coastal area between Aucilla and Ochlockonee Rivers--continued							
^h 02326836	McCord Park Pond drainage ditch at Centerville Road at Tallahassee, Fla.	Lat 30°28'09", long 84°15'01", in SE¼ sec.20, T.1 N., R.1 E., Leon County, Hydrologic Unit 03120001, on right bank, 20 ft (6 m) upstream from culvert on Centerville Road, 1.1 mi (1.8 km) northeast of Tallahassee Regional Memorial Hospital, and 2.9 mi (4.7 km) northeast of the Florida Capitol Building at Tallahassee. Datum of gage is 71.08 ft (21.67 m) National Geodetic Vertical Datum of 1929. Discontinued January 1982.	2.91	1979-82	11-10-81	2.13	^j 56
^h 02326838	Northeast drainage ditch at Miccosukee Road at Tallahassee, Fla.	Lat 30°27'50", long 84°14'24", in SW¼ sec.21, T.1 N., R.1 E., Leon County, Hydrologic Unit 03120001, on right bank, 20 ft (6 m) upstream from culverts on Miccosukee Road 0.2 mi (0.32 km) east of County Prison Farm, and 3.1 mi (5.0 km) northeast of the Florida Capitol Building at Tallahassee. Datum of gage is 58.18 ft (17.73 m) National Geodetic Vertical Datum of 1929.	^k 9.83	1979-82	07-30-82	3.87	203
^h 02326842	Governors Mall drainage ditch at Park Avenue at Tallahassee, Fla.	Lat 30°26'29", long 84°14'41", in SE¼ sec.32, T.1 N., R.1 E., Leon County, Hydrologic Unit 03120001, on left bank on upstream side of culvert on Park Avenue, 1.1 mi (1.8 km) west of Federal Corrections Institution, and 2.2 mi (3.5 km) east of Florida Capitol at Building Tallahassee. Altitude of gage is 80 ft (24 m) from topographic map.	1.04	1979-82	07-30-82	6.09	53
^h 02327012	West drainage ditch at Roberts Avenue at Tallahassee, Fla.	Lat 30°25'46", long 84°19'46", in NE¼ sec.4, T.1 S., R.1 W., Leon County, Hydrologic Unit 03120001, on left bank 30 ft (9.2 m) upstream from bridge on Roberts Avenue, 0.4 mi (0.6 km) northeast of Sabal Palm Elementary School, and 2.9 mi (4.7 km) west of the Florida Capitol Building at Tallahassee. Altitude of gage is 40 ft (12 m) from topographic map.	^m 20.9	1979-82	05-31-82	7.91	612
^h 02327013	Central drainage ditch at Airport Drive at Tallahassee, Fla.	Lat 30°25'59", long 84°18'18", in NW¼ sec.2, T.1 S., R.1 W., Leon County, Hydrologic Unit 03120001, on left bank 5 ft (1.5 m) downstream from bridge on Airport Drive, 0.3 mi (0.5 km) south of Campbell Stadium, and 1.4 mi (2.3 km) west of the Florida Capitol Building at Tallahassee. Altitude of gage is 40 ft (12 m) from topographic map.	3.29	1979-82	06-25-82	8.47	1070
^h 02327014	St. Augustine Branch at Wahnish Way at Tallahassee, Fla.	Lat 30°25'55", long 84°17'24", in NW¼ sec.1, T.1 S., R.1 W., Leon County, Hydrologic Unit 03120001, on left bank 30 ft (9.2 m) upstream from bridge on Wahnish Way, 0.2 mi (0.3 km) south of Tallahassee train depot, and 0.6 mi (1 km) southwest of Florida Capitol Building at Tallahassee. Datum of gage is 64.93 ft (19.791 m) National Geodetic Vertical Datum of 1929.	ⁿ 2.18	1979-82	05-31-82	7.57	886
^h 02327015	Central drainage ditch at Orange Avenue at Tallahassee, Fla.	Lat 30°24'48", long 84°18'18", in NW¼ sec.11, T.1 S., R.1 W., Leon County, Hydrologic Unit 03120001, on right bank 70 ft (21.34 m) upstream from culverts on Orange Avenue, 2.2 mi (3.5 km) southwest of the Florida Capitol Building at Tallahassee. Datum of gage is 33.39 ft (10.18 m) National Geodetic Vertical Datum of 1929. (Florida Department of Transportation bench mark.)	8.23	1979-82	06-25-82	8.85	1540

^h Flood-hydrograph Station^j Maximum discharge prior to discontinuance^k Of which 0.19 mi² is noncontributing^m Of which 5.5 mi² is noncontributingⁿ Of which 0.12 mi² is noncontributing

Annual maximum discharge at crest-stage partial-record stations during water year 1982--Continued

Station No.	Station Name	Location	Drainage area (mi ²)	Period of Record	Date	Annual Maximum Gage height (feet)	Dis- charge (ft ³ /s)
St. Marks and Wakulla Rivers and coastal area between Aucilla and Ochlockonee Rivers--continued							
^h 302549 084152900	East drainage ditch at Apakin Nene at Tallahassee, Fla.	Lat 30°25'48", long 84°15'29", in NW¼ sec.5, T.1 S., R.1 E., Leon County, Hydrologic Unit 03120001, on left bank, 8 ft (2.4 m) up-stream from culvert on Apakin Nene, 0.5 mi (0.8 km) southeast of Parkway Shopping Center, and 1.5 mi (2.4 km) east of Florida Capitol Building at Tallahassee. Altitude of gage is 110 ft (34 m) from topographic map.	0.21	1979-82	07-14-82	4.90	102
Ochlockonee River Basin							
02327050	Sopchoppy River near Arran, Fla.	Lat 30°13'50", long 84°32'20", in SW¼ sec.9, T.3 S., R.3 W., Wakulla County, Hydrologic Unit 03120003, at bridge on U.S. Forest Service Road 315, 1.3 mi (2.1 km) downstream from unnamed tributary, 7.9 mi (12.7 km) northwest of Arran, and 34 mi (55 km) upstream from mouth. Datum of gage is National Geodetic Vertical Datum of 1929. (Florida Department of Transportation bench mark.)	48.2	1965-82	07-31-82	53.95	572
^h 02329180	Megginnis Arm tributary at Tallahassee, Fla.	Lat 30°28'40", long 84°17'41", in NE¼ sec.23, T.1 N., R.1 W., Leon County, Hydrologic Unit 03120003, at culvert on Allen Road, 0.6 mi (1.0 km) upstream from Megginnis Arm of Lake Jackson, and 2.8 mi (4.5 km) north of Leon County courthouse, Tallahassee. Datum of gage is 106.98 ft (32.608 m) National Geodetic Vertical Datum of 1929. Discontinued.	1.46	1971-82	07-05-82	7.70	480
^h 02329181	Mall drainage ditch at Boone Blvd. at Tallahassee, Fla.	Lat 30°28'01", long 84°17'22", in SW¼ sec.24, T.1 N., R.1 W., Leon County, Hydrologic Unit 03120003, on right bank, 20 ft (6 m) upstream from culvert and weir, and 0.1 mi (0.2 km) west of North- wood Mall on Boone Blvd., 2 mi (3.2 km) north of Florida Capitol Building at Tallahassee. Altitude of gage is 150 ft (46 m) from topographic map.	0.26	1979-82	07-05-82	8.32	188
02329600	Little River near Midway, Fla.	Lat 30°30'34", long 84°31'25", in SW¼ sec.3, T.1 N., R.3 W., Gadsden County, Hydrologic Unit 03120003, at bridge on State Highway 268 0.5 mi (0.8 km) upstream from mouth, and 3.7 mi (6.0 km) west of Midway. Datum of gage is National Geodetic Vertical Datum of 1929.	305	1965-81	02-05-82	74.88	2740
02330050	Telogia Creek near Greensboro, Fla.	Lat 30°33'34", long 84°43'36", in NW¼ sec.22, T.2 N., R.5 W., Gadsden County, Hydrologic Unit 03120003, at bridge on State Highway 274, 1.2 mi (1.9 km) southwest of Greensboro, 1.3 mi (2.1 km) upstream from Tallahassee Creek, and 54 mi (87 km) upstream from mouth. Datum of gage is 100.00 ft (30.480 m) above National Geodetic Vertical Datum of 1929.	28.1	1965-82	08-11-82	93.26	610
Coastal area between Ochlockonee and Apalachicola Rivers							
02330200	New River at Vilas, Fla.	Lat 30°13'08", long 84°53'28", in NW¼ sec.13, T.3 S., R.7 W., Liberty County, Hydrologic Unit 03130013, at bridge on State Highway 65, 0.3 mi (0.5 km) west of Vilas, and 48 mi (77 km) up stream from mouth. Datum of gage is 68.49 ft (20.876 m) above National Geodetic Vertical Datum of 1929. Discontinued.	23.2	1961-82	08-10-82	5.87	950

^h Flood-hydrograph Station

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Annual maximum discharge at crest-stage partial-record stations during water year 1982--Continued

Station No.	Station Name	Location	Drainage area (mi ²)	Period of Record	Date	Annual Maximum Gage height (feet)	Dis- charge (ft ³ /s)
Coastal area between Ochlockonee and Apalachicola Rivers--Continued							
02330400	New River near Sumatra, Fla.	Lat 30°02'19", long 84°50'38", in SE¼ sec.16, T.5 S., R.6 W., Liberty County, Hydrologic Unit 03130013, at bridge on U. S. Forest Service Road 120, 1.8 mi (2.9 km) below Cat Branch, 8.2 mi (13.2 km) east of Sumatra, and 29 mi (47 km) upstream from mouth. Datum of gage is National Geodetic Vertical Datum of 1929.	157	1965-82	08-12-82	22.42	1930
Apalachicola River							
02358600	Flat Creek near Chattahoochee, Fla.	Lat 30°37'43", long 84°50'06", in NE¼ sec.28, T.3 N., R.6 W., Gadsden County, Hydrologic Unit 03130011, at bridge on State Highway 269, 5.3 mi (8.5 km) south of Chattahoochee, and 6.1 mi (9.8 km) upstream from mouth. Datum of gage is 85.39 ft (26.027 m) National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Discontinued.	24.9	1961-82	08-11-82	9.56	1370
02358998	Holliman Branch near Altha, Fla.	Lat 30°32'43", long 85°09'33", in NW¼ sec.29, T.2 N., R.9 W., Calhoun County, Hydrologic Unit 03130011, on right bank 15 ft (5 m) upstream from culvert on State Highway 274, 0.5 mi (0.8 km) upstream from mouth, and 2.6 mi (4.2 km) southwest of Altha. Datum of gage is 54.92 ft (16.740 m) National Geodetic Vertical Datum of 1929.	2.04	1969-82	09-20-82	8.53	675
St. Andrew Bay, inflow and coastal area							
02359300	Sandy Creek near Panama City, Fla.	Lat 30°08'27", long 85°24'26", in NE¼ sec.14, T.4 S., R.12 W., Bay County, Hydrologic Unit 03140101, at bridge on State Highway 22, 7.2 mi (11.6 km) upstream from mouth, and about 16 mi (26 km) east of Panama City. Datum of gage is 0.33 ft (0.101 m) below National Geodetic Vertical Datum of 1929. Discontinued.	^a 25	1961-82	07-30-82	12.10	950
02359350	Econfina Creek near Compass Lake, Fla.	Lat 30°33'20", long 85°26'05", in SE¼ sec.21, T.2 N., R.12 W., Bay County, Hydrologic Unit 03140101, on downstream side of bridge on county road, 0.3 mi (0.5 km) downstream from Long Branch, 3.5 mi (5.6 km) southwest of town of Compass Lake, and 33 mi (53 km) upstream from mouth. Datum of gage is 109.48 ft (33.370 m) National Geodetic Vertical Datum of 1929. Discontinued.	40.5	^f 1962-65 1966-82	07-30-82	10.26	826
02359550	Bear Creek near Youngstown, Fla.	Lat 30°19'10", long 85°27'20", in NE¼ sec. 17, T.2 S., R.12 W., Bay County, Hydrologic Unit 03140101, at bridge on U.S. Highway 231, 0.1 mi (0.2 km) downstream from South Fork Bear Creek, 3.2 mi (5.1 km) south of Youngstown, and 12 mi (19 km) upstream from mouth. Datum of gage is 10.14 ft (3.091 m) above National Geodetic Vertical Datum of 1929.	67.2	^f 1962-65 1966-82	07-30-82	12.55	2520

a Approximately

f Operated as a continuous/continual record gaging station

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Annual maximum discharge at crest-stage partial-record stations during water year 1982--Continued

Station No.	Station Name	Location	Drainage area (mi ²)	Period of Record	Date	Annual Maximum Gage height (feet)	Dis- charge (ft ³ /s)
Choctawhatchee River below Pea River							
02365237	Fowler Branch near Leonia, Fla.	Lat 30°55'17", long 85°56'01", in NW¼ sec.22, T.6 N., R.17 W., Holmes County, Hydrologic Unit 03140203, at culvert on State Highway 160, 0.6 mi (1.0 km) up- stream from mouth, 5.0 mi (8.0 km) east of Leonia, and 13.2 mi (21.2 km) north of Ponce de Leon. Datum of gage is 75.90 ft (23.134 m) above National Geo- detic Vertical Datum of 1929.	5.09	1969-82	02-03-82	9.48	g
P02365700	Sandy Creek at Ponce de Leon, Fla.	Lat 30°43'28", long 85°56'12", in SE¼ sec.28, T.4 N., R.17 W., Holmes County, Hydrologic Unit 03140203, at bridge on State Highway 81 at Ponce de Leon and 10 mi (16 km) upstream from mouth. Datum of gage is 42.94 ft (13.088 m) National Geodetic Vertical Datum of 1929. Discontinued.	^a 80.7	1961-82	02-11-82	12.14	3490
02366859	Pate Branch near Freeport, Fla.	Lat 30°28'44", long 86°24'05", in SW¼ sec.20, T.1 S., R.18 W., Walton County, Hydrologic Unit 03140203, at culvert on State Highway 20, 0.6 mi (1.0 km) upstream from Turnpike Branch, and 4.0 mi (6.4 km) southeast of Freeport. Datum of gage is 5.02 ft (1.530 m) National Geodetic Vertical Datum of 1929.	1.87	1969-82	07-27-82	9.98	318
Choctawhatchee Bay, inflow and coastal area							
02367242	Little Rocky Creek near Niceville, Fla.	Lat 30°36'34", long 86°25'31", in SW¼ sec.2, T.1 N., R.22 W., Okaloosa County, Hydrologic Unit 03140102, at bridge on State Highway 285, 1.8 mi (2.9 km) up- stream from Smith Branch, and 7.0 mi (11.3 km) northwest of Niceville. Datum not determined. Discontinued.	3.70	1969-82	02-03-82	7.05	192
Blackwater River Basin							
02370750	Hurricane Branch near Milton, Fla.	Lat 30°40'32", long 87°08'17", in NW¼ sec.22, T.2 N., R.29 W., Santa Rosa County, Hydrologic Unit 03140104, 0.6 mi (1.0 km) upstream from mouth, and 7 mi (11 km) northwest of Milton. Datum of gage is 68.33 ft (20.827 m) National Geodetic Vertical Datum of 1929. Discontinued.	2.95	^f 1960-62 1962-82	02-02-82	4.98	543
Perdido Bay, inflow and coastal area							
02376079	Carpenter Creek at Pensacola, Fla.	Lat 30°28'15", long 87°12'48", in land grant 50, T.1 S., R.30 W., Escambia County, Hydrologic Unit 03140107, at culvert on State Highway S289, 0.9 mi (1.4 km) upstream from mouth at Bayou Texar, Pensacola. Datum of gage is 3.11 ft (0.948 m) National Geodetic Vertical Datum of 1929.	8.81	1971-82	02-02-82	10.24	552

a Approximately

f Operated as a continuous/continual record gaging station

g Not determined

p Also a periodic discharge measurement station

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES
DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1982

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Alapaha River Basin						
^a 02317630 Alapaha River	Suwannee River	Lat 30°31'42", long 83°02'17", in SE¼ sec.32, T.2 N., R.13 E., Hamilton County, Hydrologic Unit 03110202, at bridge on U.S. Highway 41, 5.4 mi (8.7 km) west of Jasper and 11 mi (18 km) upstream from mouth. Datum of gage is National Geodetic Vertical Datum of 1929.	bc1720	1948 1966-77 1979-81	01-06-82 02-16-82 03-03-82 04-05-82 05-03-82 06-12-82 09-13-82	d 385 d 3020 d 2400 d 357 d 1630 d 52 d 402
Suwannee River Basin						
02320000 Suwannee River	Gulf of Mexico	Lat 30°05'59", long 83°10'18", in NE¼ sec.36, T.4 S., R.11 E., Suwannee County, Hydrologic Unit 03110205 at bridge on State Highway 51, 1.6 mi (2.6 km) south of Luraville, and 97 mi (156 km) upstream from mouth.	b7330	1927-37 1950-72 1956 d1976-81	05-05-82	d8360
Aucilla River Basin						
02326500 Aucilla River	Gulf of Mexico	Lat 30°22'11", long 83°48'25", in NE¼ sec.27, T.1 S., R.5 E., Madison County, Hydrologic Unit 03110103, near left bank on downstream side of U.S. Highway 19, 0.6 mi (1.0 km) southeast of Lamont, and 34 mi (55 km) upstream from mouth.	747	e1950-79 1981	06-15-81 08-17-81	18 11
Ochlockonee River Basin						
02329352 Attapulgus Creek	Little River	Lat 30°39'46", long 84°27'48", in NW¼ sec.17, T.3 N., R.2 W., Gadsden County, Hydrologic Unit 03120003, at bridge on State Highway 159, 0.7 mi (1.1 km) west of Jamieson, 2.1 mi (3.4 km) above Swamp Creek, and 3.9 mi (6.3 km) northwest of Havana.	95.6	1969 1974-77 1980-81	02-20-81 03-11-81 04-14-81 05-20-81	f 150 f 68 f 47 f 14
Swamp Creek	Attapulgus Creek	Lat 30°39'21", long 84°27'08", in SE¼ sec.17, T.3 N., R.2 W., Gadsden County, Hydrologic Unit 03120003, at bridge on State Highway 159, 0.5 mi (0.8 km) south of Jamieson.		1980-81	07-08-80 09-04-80 09-26-80 02-20-81 03-11-81	f 16 f 3.6 f 53 f 86 f 38
Salem Branch	Attapulgus Creek	Lat 30°37'53", long 84°25'54", in SE¼ sec.28, T.3 N., R.2 W., Gadsden County, Hydrologic Unit 03120003, at culvert on State Highway 159, 1.6 mi (2.6 km) northwest of Havana, 2.7 mi (4.3 km) southeast of Jamieson, and 5.6 mi (9.0 km) southeast of Dogtown.		1980-81	07-08-80 09-26-80 02-11-81 03-12-81	f .35 f .42 f 34 f 1.7
02329538 Holman Branch	Quincy Creek	Lat 30°36'34", long 84°34'57", in SE¼ sec.36, T.3 N., R.4 W., Gadsden County, Hydrologic Unit 03120003, at culvert on State Highway 270A, 0.9 mi (1.4 km) above Quincy Creek, and 1.5 mi (2.4 km) north of Quincy.	3.09	1969-70 1974-77 1980-81	07-09-80 08-15-80 02-19-81 03-10-81 04-13-81 05-18-81	f .99 f 3.5 f 3.7 f 2.6 f 1.5 f .68
Quincy Creek	Little River	Lat 30°35'53", long 84°34'27", in SW¼ sec.6, T.2 N., R.3 W., Gadsden County, Hydrologic Unit 03120003, at culvert on State Road 65, 0.5 mi (0.8 km) north of water plant near Quincy.		1980-81	02-20-81 03-10-81	f 296 f 22
02329542 Quincy Creek	Little River	Lat 30°35'32", long 84°33'49", in NW¼ sec.8, T.2 N., R.3 W., Gadsden County, Hydrologic Unit 03120003, at bridge on State Highway 12, 0.8 mi (1.3 km) northeast of Quincy.	21.9	1956 1965-67 e1973-78 1979-80	02-19-81 03-10-81 04-13-81 05-18-81	f 33 f 23 f 16 f 8.9
02329548 Tanyard Branch	Quincy Creek	Lat 30°34'42", long 84°33'30", in SW¼ sec.8, T.2 N., R.3 W., Gadsden County, Hydrologic Unit 03120003, at culvert on U.S. Highway 90, 0.6 mi (1.0 km) upstream from Quincy Creek, and 1.2 mi (1.9 km) southwest of Quincy.	4.91	1969 1974-77 1980-81	02-20-81 03-10-81 04-14-81	f 7.3 f 6.7 f 2.4

a Also operated as a crest-stage partial-record station

b Approximately

c Does not include Little Alapaha River

d Discharge measurements furnished by Suwannee River Water Management District

e Operated as a continual/continuous record gaging station

f Discharge measurements furnished by Northwest Florida Water Management District not published last water year

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1982--Continued

Stream	Tributary to	Location	Drainage area (mi ²)	Measured previously (water years)	Measurements Date	Discharge (ft ³ /s)
Ochlockonee River Basin--continued						
02329553 Hubbert Branch	Quincy Creek	Lat 30°35'39", long 84°32'48", in SW¼ sec.4 T.2 N., R.3 W., Gadsden County, Hydrologic Unit 03120003, at culvert on State Highway 12, 0.8 mi (1.3 km) upstream from Quincy Creek, and 1.8 mi (2.9 km) east of Quincy.	4.68	1969 1974-77 1980-81	02-11-81 03-12-81 05-19-81	f 38 f 4.4 f .52
02329582 Hurricane Creek	Little River	Lat 34°34'57", long 84°28'44", in SW¼ sec.7, T.2 N., R.2 W., Gadsden County, Hydrologic Unit 03120003, at culvert on State Highway 270, 3.1 mi (5.0 km) upstream from Little River, and 4.8 mi (7.7 km) southwest of Havana.	8.31	1969-70 1974-77 1980-81	02-12-81 03-09-81	f 11 f 17
02329591 Hurricane Creek	Little River	Lat 30°33'11", long 84°30'38", in SW¼ sec.23, T.2 N., R.3 W., Gadsden County, Hydrologic Unit 03120003, at culvert on U.S. Highway 90, 0.2 mi (0.3 km) upstream from Little River, and 4.6 mi (7.4 km) southeast of Quincy.	12.8	1969-70 1980-81	02-12-81 03-12-81	f 84 f 15
02329600 Little River	Lake Talquin	Lat 30°30'44", long 84°31'25", in SW¼ sec.3, T.1 N., R.3 W., Gadsden County, Hydrologic Unit 03120003, at bridge on State Highway 268, 0.5 mi (0.8 km) upstream from Monroe Creek, 3.2 mi (5.1 km) upstream from mouth, and 3.7 mi (6.0 km) west of Midway.	305	1965-81	04-16-81 05-20-81	f 133 f 56
02329625 Monroe Creek	Little River	Lat 30°30'33", long 84°29'54", in SE¼ sec.2, T.1 N., R.3 W., Gadsden County, Hydrologic Unit 03120003, at bridge on State Highway 268, 2.6 mi (4.2 km) west of Midway.	6.8	1958-59 1976 1980-81	02-12-81 03-10-81	f 23 f 11
02329646 Richlander Creek	Little River	Lat 30°31'18", long 84°33'15", in SE¼ sec.32, T.2 N., R.3 W., Gadsden County, Hydrologic Unit 03120003, at culvert on State Highway 65B, 4.7 mi (7.6 km) south of Quincy.	5.8	1958-59 1975-76 1980-81	02-12-81 03-10-81	f 16 f 7.5
Choctawhatchee Bay inflow and coastal area						
02366911 Lafayette Creek	Fourmile Creek	Lat 30°29'35", long 86°07'33", in SE¼ sec.1, T.1 S., R.19 W., Walton County, Hydrologic Unit 03140102, at bridge on State Road 20 at Freeport, 0.9 mi (1.4 km) upstream from mouth.	35.5	1969-70 1972-81	06-23-82	82

ELEVATION AND WATER QUALITY OF LAKES

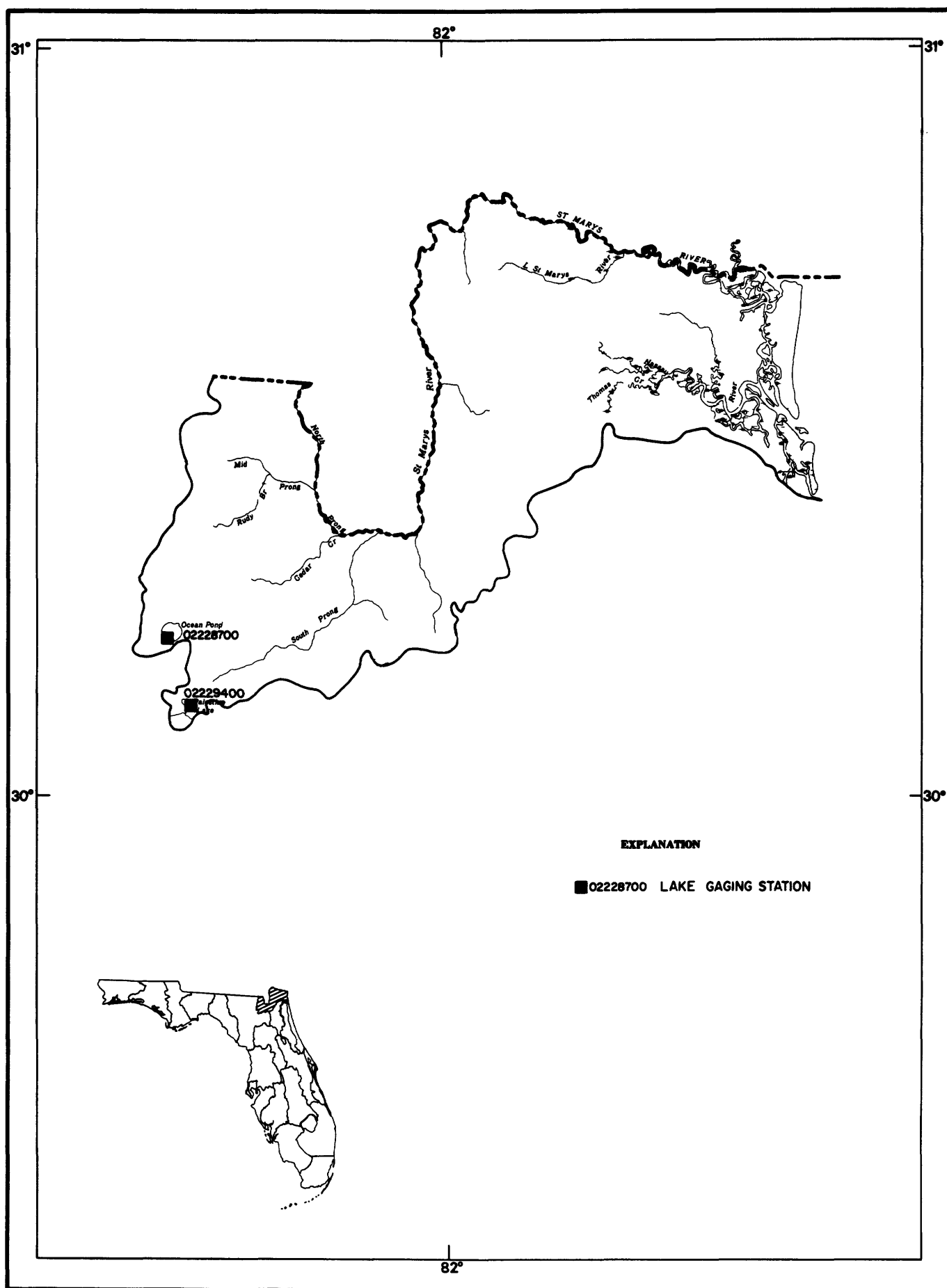


Figure 10. Location of lake gaging stations in the St. Marys basin and the coastal area between the St. Marys and St. Johns Rivers.

02228700 OCEAN POND AT OLUSTEE, FL

LOCATION.--LAT 30°12'55", long 82°26'31", in SW¼ sec.20, T.3 S., R. 19 E., Baker County, Hydrologic Unit 03070204, on south shore on private dock, 1.2 mi (1.9 km) northwest of Olustee and 11.3 mi (18.2 km) east of Lake City.

SURFACE AREA.--1,793 acres (2.8 mi², 7.26 km²).

DRAINAGE AREA.--13.1 mi² (33.9 km²).

PERIOD OF RECORD.--December 1974 to March 1975, July 1975 to December 1976; January 1977 to March 1978 (weekly); April 1978 to September 1978 (bimonthly); October 1978 to current year (monthly).

GAGE.--Nonrecording gage. Datum of gage is 150.40 ft (45.842 m) National Geodetic Vertical Datum of 1929. Gage readings have been reduced to elevations NGVD.

REMARKS.--Some diversionary flow to the Suwannee River basin at times.

COOPERATION.--Gage readings were furnished by Suwannee River Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 156.06 ft (47.488 m) July 30, 1981; minimum observed, 153.76 ft (46.866 m) July 28, Aug. 18, 1977.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
29...	1700	154.36	26...	1800	154.78
DEC			JUN		
07...	1700	154.56	30...	1930	155.30
JAN			JUL		
04...	1730	154.76	30...	1930	156.06
23...	1230	155.02	AUG		
FEB			31...	1930	155.35
26...	1730	154.88	SEP		
APR			30...	1930	155.15
02...	1730	155.18			
27...	1930	155.20			

ST. MARYS RIVER BASIN

02229400 PALESTINE LAKE NEAR OLUSTEE, FL

LOCATION.--Lat 30°07'46", long 82°24'34", in NW¼ sec.22, T.4 S., R.19 E., Union County, Hydrologic Unit 03070204, on south side of private dock on northeastern shore, 6.2 mi (10.0 km) south of Olustee.

SURFACE AREA.--910 acres (1.42 mi², 3.70 km²).

DRAINAGE AREA.--13.1 mi² (34.1 km²).

PERIOD OF RECORD.--August, September 1975, March 1978 to current year (monthly).

GAGE.--Nonrecording gage. Datum of gage is 133.94 ft (40.825 m) National Geodetic Vertical Datum of 1929 (levels by Suwannee River Water Management District). Gage readings have been reduced to elevation NGVD.

REMARKS.--Formerly known as South Prong Pond near Lake Butler. Surface outlet through South Prong swamp to South Prong St. Marys River. Outflow into Olustee Creek will occur at elevations above 145 ft (44.2 m).

COOPERATION.--Gage readings are furnished by Suwannee River Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed elevation, 144.80 ft (44.135 m) Mar. 13, 1980; minimum observed, 142.96 ft (43.574 m) Nov. 13, 1978.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
06...	0910	143.50	12...	0917	144.42
NOV			MAY		
05...	1230	143.25	05...	1600	143.94
DEC			JUN		
01...	0910	143.38	07...	1024	143.70
JAN			JUL		
14...	1200	143.78	12...	1635	143.79
FEB			AUG		
08...	0945	143.80	09...	1505	144.26
MAR			SEP		
02...	0925	143.70	07...	1149	144.02

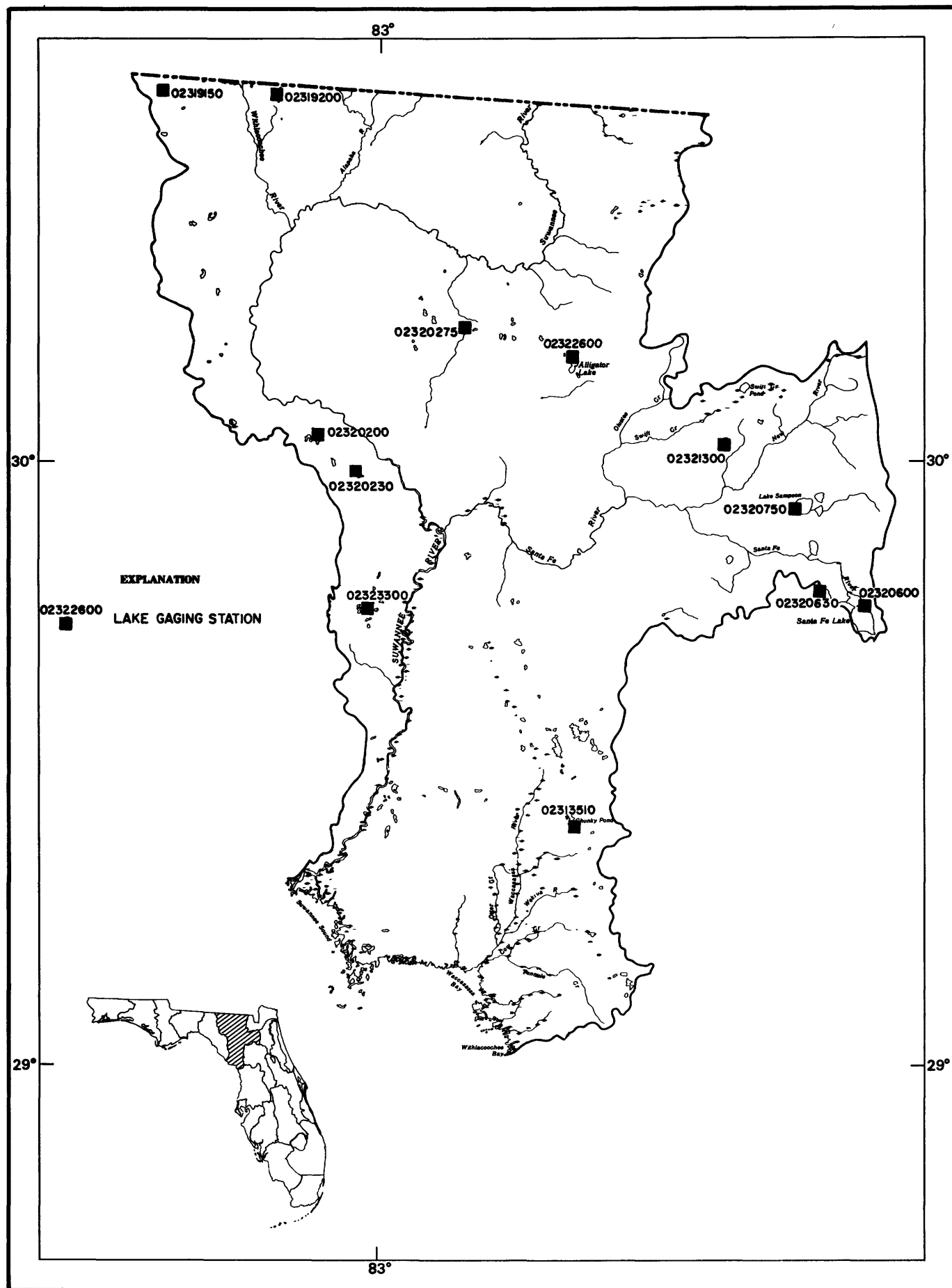


Figure 11. Location of lake gaging stations in the Waccasassa and Suwannee River basins and the coastal area between the Withlacoochee and Suwannee Rivers.

WACCASASSA RIVER BASIN

02313510 CHUNKY POND NEAR BRONSON, FL

LOCATION.--Lat 29°23'36", long 82°37'19" (base gage), in SW¼ sec. 33, T.12 S., R.17 E., Levy County, Hydrologic Unit 03110101, at southeast end of pond, near center of outlet channel, 200 ft (60 m) upstream from culvert control and 3.7 mi (6.0 km) south of Bronson.

SURFACE AREA.--650 acres (1.02 mi², 3.63 km²).

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

PERIOD OF RECORD.--January to April 1967 (fragmentary); May 1967 to March 1978 (weekly) incomplete; April 1978 to current year (twice monthly).

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Supplementary nonrecording gages about 600 ft (183 m) northeast; 0.5 mi (0.8 km) north; and 400 ft (122 m) west of north gage.

REMARKS.--Lake level partially controlled by culvert with lift gate in outlet canal. Outflow from lake is through a canal southward to a swampy area called Deepen Pond and thence through Magee Branch to Waccasassa River.

COOPERATION.--Gage readings were furnished by Suwannee River Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 56.00 ft (17.069 m) Sept. 7, 1967; lake dry at gage during November and December 1977, elevation not determined. Minimum observed since December 1977, 45.80 ft (13.960 m) Nov. 18, 1978.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

[illegible]

02319150 CHERRY LAKE NEAR CHERRY LAKE, FL

LOCATION.--Lat 30°37'06", long 83°25'20", in NE¼ sec.33, T.3 N., R.9 E., Madison County, Hydrologic Unit 03110203, on west shore on private dock, 2.7 mi (4.3 km) northeast of the village of Cherry Lake and 10.2 mi (16.4 km) north of Madison.

SURFACE AREA.--483 acres (0.75 mi², 1.95 km²).

DRAINAGE AREA.--1.58 mi² (4.09 km²).

PERIOD OF RECORD.--November 1974 to March 1978; April 1978 to September 1978 (bimonthly); October 1978 to current year (monthly).

GAGE.--Nonrecording gage. Datum of gage is 148.13 ft (45.150 m) National Geodetic Vertical Datum of 1929. Gage readings have been reduced to elevations NGVD.

REMARKS.--Lake is landlocked.

COOPERATION.--Gage readings were furnished by Suwannee River Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 153.97 ft (46.930 m) Apr. 15, 1975; minimum observed, 151.77 ft (46.259 m) Aug. 7,8, 1977.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation since April 1973, 154.41 ft (47.064 m) from high-water mark by owner.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
26...	1700	151.91	27...	1630	152.79
NOV			MAY		
26...	1030	151.79	26...	1640	152.53
DEC			JUN		
24...	1600	151.89	28...	1130	152.83
JAN			JUL		
25...	1415	152.43	28...	1600	153.29
FEB			AUG		
22...	1530	152.59	27...	1200	152.95
MAR			SEP		
29...	1100	152.69	07...	1630	152.69

WITHLACOOCHEE RIVER BASIN

02319200 LAKE OCTAHATCHEE NEAR JENNINGS, FL

LOCATION.--Lat 30°36'34", long 83°12'10", in NE¼ sec.3, T.2 N., R.11 E., Hamilton County, Hydrologic Unit 03110203, on northwest shore on private dock, 5.6 mi (9.0 km) west of Jennings, 8.8 mi (14.2 km) east of Pinetta.

SURFACE AREA.--198 acres (0.31 mi², 0.80 km²).

DRAINAGE AREA.--3.0 mi² (7.77 km²), includes 0.1 mi² (0.26 km²) estimated in Georgia.

PERIOD OF RECORD.--November 1974 to September 1977 (fragmentary); October 1977 to current year (monthly).

GAGE.--Nonrecording gage. Datum of gage is 99.36 ft (30.285 m) National Geodetic Vertical Datum of 1929 (levels by Suwannee River Water Management District). Gage readings have been reduced to elevations NGVD.

REMARKS.--Lake level partially controlled by lift gates at west end of lake by Lake Co-op (owners).

COOPERATION.--Gage readings were furnished by Suwannee River Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 107.84 ft (32.869 m) Nov. 29, 1976, from high-water mark; minimum, observed dry at gage on Feb. 20, 1980.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
05...	1336	102.18	12...	1115	104.08
NOV			JUN		
04...	1025	102.09	07...	1130	102.72
30...	1238	101.79	JUL		
JAN			12...	1435	103.32
14...	1035	100.36	AUG		
FEB			09...	1000	104.76
08...	1115	102.56	SEP		
MAR			07...	1416	103.37
03...	1308	102.91			

02320200 TOWNSEND POND NEAR MAYO, FL

LOCATION.--Lat 30°02'27", long 83°07'11", in NE¼ sec.21, T.5 S., R.12 E., Lafayette County, Hydrologic Unit 03110205, on county pier, 235 ft (72 m) north of peninsula on west shore, 1.4 mi (2.2 km) southeast of Alton, 3.5 mi (5.6 km) southeast of Mayo.

SURFACE AREA.--111 acres (0.17 mi², 0.45 km²).

DRAINAGE AREA.--6.40 mi² (16.6 km²).

PERIOD OF RECORD.--November 1974 to September 1977 (fragmentary); October 1977 to current year (monthly).

GAGE.--Nonrecording gage. Datum of gage 67.44 ft (20.556 m) National Geodetic Vertical Datum of 1929 (levels by Suwannee River Water Management District). Gage readings have been reduced to elevations NGVD.

REMARKS.--Lake is landlocked. Locally known as Koon Lake.

COOPERATION.--Gage readings were furnished by Suwannee River Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 73.17 ft (22.302 m) Aug. 8, 1980; minimum observed, 69.13 ft (21.071 m) Nov. 4, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
06...	1857	69.57	05...	1136	71.18
NOV			JUN		
04...	1444	69.13	07...	1720	70.64
30...	1710	69.33	JUL		
JAN			12...	1044	71.38
14...	1310	69.72	AUG		
FEB			09...	1650	72.32
08...	1700	69.78	SEP		
MAR			07...	1803	72.00
03...	1555	69.79			
APR					
12...	1640	71.09			

SUWANNEE RIVER BASIN

02320230 PICKETT LAKE NEAR BRANFORD, FL

LOCATION.--Lat. 29°59'18", long 83°02'53", in SW¼ sec.5, T.6 S., R.13 E., Lafayette County, Hydrologic Unit 03110205, on north shore of southwest lobe of lake 1.7 mi (2.7 km) southwest of U.S. 27, and 7.5 mi (12.1 km) west of Branford.

SURFACE AREA.--88 acres (0.14 mi² or 0.36 km²).

DRAINAGE AREA.--6.5 mi² (16.7 km²) approximately.

PERIOD OF RECORD.--April 1979 to current year (weekly).

GAGE.--Nonrecording gage. Datum of gage is 48.12 ft (14.667) National Geodetic Vertical Datum of 1929. Gage readings have been reduced to elevations NGVD.

REMARKS.--Drainage divides are poorly defined and lake interconnects with Adams Lake and adjacent areas during high stage.

COOPERATION.--Gage readings were furnished by Suwannee River Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 58.12 ft (17.715 m) July 27, 1980; minimum observed, 52.88 ft (16.118 m) Nov. 3, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 57.40 ft (17.386 m) Apr. 11; minimum observed, 52.88 ft (16.118 m) Nov. 3.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE WEEKLY

[illegible]

02320275 LOW LAKE NEAR WELLBORN, FL

LOCATION.--Lat 30°13'16", long 82°50'14", in SW¼ sec.17, T.3 S., R.15 E., Suwannee County, Hydrologic Unit 03110205, on west shore on private dock, 1.0 mi (1.6 km) southwest of Wellborn.

SURFACE AREA.--69 acres (0.11 mi², 0.28 km²).

DRAINAGE AREA.--2.89 mi² (7.49 km²).

PERIOD OF RECORD.--November 1974 to September 1975 (fragmentary); October 1975 to September 1976 (weekly) incomplete; January 1977 to September 1978 (fragmentary); October 1978 to current year (monthly).

GAGE.--Nonrecording gage. Datum of gage is 143.80 ft (43.830 m) National Geodetic Vertical Datum of 1929. Gage readings have been reduced to elevations NGVD.

REMARKS.--Lake is landlocked.

COOPERATION.--Gage readings were furnished by Suwannee River Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 149.00 ft (45.415 m) April 5, 1979, July 26, 1980; minimum observed, 147.26 ft (44.885 m) June 2, 1977, May 29, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	TEMPER- ATURE (DEG C)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	TEMPER- ATURE (DEG C)
OCT				APR			
28...	1730	147.56	--	30...	1730	147.88	--
NOV				MAY			
28...	1230	147.88	--	27...	1930	148.00	--
DEC				JUN			
27...	1430	148.16	--	30...	1745	148.22	--
JAN				JUL			
28...	1730	148.15	--	28...	1745	148.64	--
FEB				AUG			
22...	1730	148.32	--	26...	1730	148.28	--
MAR				SEP			
30...	1400	148.20	--	07...	1800	148.02	--

LOCATION.--Lat 29°45'38", long 82°04'30", in NW¼ sec.35, T.8 S., R.22 E., Bradford County, Hydrologic Unit 03110206, on north shore of lake, on west side of private dock, 3.1 mi (5.0 km) southwest of Keystone Heights.

DRAINAGE. AREA.--20.9 mi² (54.1 km²), includes that of Little Santa Fe Lake.

PERIOD OF RECORD.--July 1957 to January 1958; February 1958 to June 1961 (thrice weekly); July to September 1961, October 1965 to March 1978, and October 1978 to current year (weekly); April to September 1978 (monthly). Records of lake elevations, prior to October 1960 are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is 132.22 ft (40.301 m) National Geodetic Vertical Datum of 1929. Gage readings have been reduced to elevations NGVD.

REMARKS.--Lake is the headwaters of the Santa Fe River and has continuous outflow.

COOPERATION.--Gage readings were furnished by Suwannee River Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 142.72 ft (43.501 m) Aug. 25, 1978 from highwater mark; minimum daily, 138.42 ft (42.190 m) June 30, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation since 1946, 143.9 ft (43.86 m), furnished by Department of Transportation, from information by local residents.

EXTREMES FOR CURRENT YEAR.--Maximum observed elevation, 141.22 ft (43.043 m) Apr. 20, minimum observed, 139.40 ft (42.489 m) Dec. 22.

ELEVATIONS, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE WEEKLY

[illegible]

SUWANNEE RIVER BASIN

185

02320630 LAKE ALTHO AT WALDO, FL

LOCATION.--Lat 29°47'19", long 82°09'41", in NW¼ sec.24, T.8 S., R.21 E., Alachua County, Hydrologic Unit 03110206, on dock at head of canal on northwest shore of lake, 0.4 mi (0.6 km) east of Waldo, and 5.3 mi (8.5 km) southwest of Hampton.

SURFACE AREA.--555 acres (0.87 mi², 2.25 km²).

DRAINAGE AREA.--3.39 mi² (8.78 km²).

PERIOD OF RECORD.--March 1976 to December 1978; January 1979 to current year (monthly).

REVISED RECORDS.--WDR FL-78-4: 1976-77.

GAGE.--Nonrecording gage. Datum of gage is 122.62 ft (37.375 m), National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD.

REMARKS.--Lake interconnects with Santa Fe Lake (02320600) through Santa Fe canal on southeast end of lake.

COOPERATION.--Gage readings were furnished by Suwannee River Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 141.14 ft (43.019 m) Aug. 26-28, 1978; minimum daily, 138.78 ft (42.300 m) Nov. 22, 1977.

ELEVATIONS, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
28...	1630	139.50	29...	1520	140.36
NOV			MAY		
29...	--	139.50	26...	--	140.50
DEC			JUN		
30...	--	139.70	30...	1530	140.68
JAN			JUL		
28...	1630	140.20	28...	1600	140.70
FEB			AUG		
22...	--	140.36	30...	--	140.20
MAR			SEP		
29...	1630	140.52	28...	1430	140.26

SUWANNEE RIVER BASIN

02320750 LAKE SAMPSON NEAR STARKE, FL

LOCATION.--Lat 29°56'11", long 82°10'15", in NE¼ sec.35, T.6 S., R.21 E., Bradford County, Hydrologic Unit 03110206, on northeast shore at end of canal, 2.7 mi (4.3 km) northeast of Sampson City, and 3.7 mi (6.0 km) southwest of Starke.

SURFACE AREA.--2,071 acres (3.24 mi², 8.38 km²).

DRAINAGE AREA.--59.3 mi² (153.6 km²).

PERIOD OF RECORD.--July 1957 to September 1960 (thrice weekly); October 1960 to August 1965 (fragmentary); September 1965 to September 1967, November 1974 to March 1978 (weekly); April 1978 to September 1978 (bimonthly); October 1978 to July 1982 (weekly). Discontinued. Records of lake elevations prior to October 1960 are available in files of the Geological Survey.

REVISED RECORDS.--WDR FL-74-1: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is 127.49 ft (38.859 m) National Geodetic Vertical Datum of 1929. July 1957 to September 1967, at site 2.2 mi (3.5 km) southwest at datum 1.23 ft (0.375 m) lower. Gage readings have been reduced to elevations NGVD.

REMARKS.--Outflow from lake is through Sampson River to Santa Fe River. Lake level partially controlled by concrete spillway culverts and lift gates 0.5 mi (0.8 km) downstream from mouth. Prior to 1973, outflow through 12-inch drainage well on north side of lake to ground water.

COOPERATION.--Gage readings were furnished by Suwannee River Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 136.15 ft (41.499 m) Mar. 23, 1959; minimum observed, 130.22 ft (39.691 m) June 6, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 133.69 ft (40.749 m) Apr. 13; minimum observed, 130.89 ft (39.895 m) Oct. 6, 13.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE WEEKLY

[illegible]

02321300 LAKE BUTLER AT LAKE BUTLER, FL

LOCATION.--Lat 30°01'38", long 82°20'18", in SE¼ sec.30, T.5 S., R.20 E., Union County, Hydrologic Unit 03110206, on south shore of lake at public park in Lake Butler.

SURFACE AREA.--437 acres (0.68 mi², 1.77 km²).

DRAINAGE AREA.--3.94 mi² (10.2 km²).

PERIOD OF RECORD.--July 1957 to September 1961; October 1961 to September 1965 (fragmentary); October 1965 to September 1967, and November 1974 to March 1978 (weekly) incomplete; April 1978 to current year (monthly). Records of lake elevations prior to October 1960 are available in files of the Geological Survey.

REVISED RECORDS.--WDR FL-75-1: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is 127.35 ft (38.816 m) National Geodetic Vertical Datum of 1929. July 1957 to September 1967 at same site at datum 3.41 ft (1.039 m) lower. Gage readings have been reduced to elevations NGVD.

REMARKS.--Lake is partially controlled by temporary wooden dam. Outflow from lake is through a run to Butler Creek, thence to New River.

COOPERATION.--Gage readings were furnished by Suwannee River Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 134.02 ft (40.849 m) about Sept. 13, 1964, from high-water mark; minimum observed, 128.75 ft (39.243 m) Nov. 29, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
28...	0930	128.77	29...	0930	130.00
NOV			MAY		
29...	1430	128.75	28...	0930	129.50
DEC			JUN		
31...	1300	128.85	27...	1530	130.05
JAN			JUL		
24...	0930	129.15	27...	0945	130.75
FEB			AUG		
28...	0930	129.05	28...	1000	131.25
MAR			SEP		
28...	0930	129.20	26...	1500	131.33

SUWANNEE RIVER BASIN

02322600 ALLIGATOR LAKE AT LAKE CITY, FL

LOCATION.--Lat 30°09'25", long 82°38'28", in NE¼ sec.5, T.4 S., R.17 E., Columbia County, Hydrologic Unit 03110206, on west shore of southern portion of lake, 2.0 mi (3.2 km) south of Lake City.

SURFACE AREA.--348 acres, (0.54 mi², 1.41 km²).

DRAINAGE AREA.--15.4 mi² (39.9 km²).

PERIOD OF RECORD.--September 1965 to May 1967 and October 1972 to March 1978 (weekly); June 1967 to September 1972 (fragmentary); April 1978 to current year (monthly), incomplete.

GAGE.--Nonrecording gage. Datum of gage is 87.18 ft (26.572 m) National Geodetic Vertical Datum of 1929. Gage readings have been reduced to elevations NGVD. Prior to Oct. 1, 1974, nonrecording gage at site 2.0 mi (3.2 km) northeast at same datum.

REMARKS.--Lake has several contributing creeks but no surface outlet; below about 95 ft (29 m) elevation, lake is separated into several small ponds.

COOPERATION.--Gage readings were furnished by Suwannee River Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 99.98 ft (30.474 m) Mar. 1, 1966; minimum observed, 90.23 ft (27.502 m) Apr. 29, 1968.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			JAN		
01...	--	94.55	29...	--	94.90
29...	--	94.35	MAR		
NOV			01...	--	94.53
30...	--	94.65			
DEC					
30...	--	94.65			

02323300 GOVERNOR HILL LAKE NEAR OLD TOWN, FL

LOCATION.--Lat 29°45'08", long 83°02'18", in SE¼ sec. 29, T.8 S., R.13 E., Dixie County, Hydrologic Unit 03110205, on south shore of lake 10 ft (3.0 m) north of private dock, 9.8 mi (15.8 km) northeast of Cross City and 10.2 mi (16.4 km) northwest of Old Town.

SURFACE AREA.--153 acres (0.24 mi², 0.62 km²).

DRAINAGE AREA.--1.61 mi² (4.17 km²).

PERIOD OF RECORD.--November 1974 to March 1978; April 1978 to June 1978 (bimonthly); July 1978 to current year (monthly).

GAGE.--Nonrecording gage. Datum of gage is 46.72 ft (14.240 m) National Geodetic Vertical Datum of 1929 (levels by Suwannee River Water Management District.) Gage readings have been reduced to elevations NGVD.

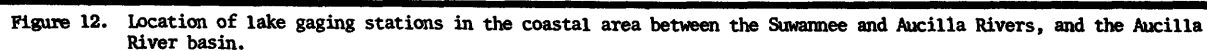
REMARKS.--Lake is landlocked.

COOPERATION.--Gage readings were furnished by Suwannee River Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 53.64 ft (16.349 m) July 31, 1980; minimum observed, 47.86 ft (14.588 m) Aug. 16, 1977.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
03...	1630	49.44	26...	1800	50.98
NOV			MAY		
01...	1730	49.18	29...	1700	50.24
DEC			JUN		
31...	1715	48.92	30...	1900	51.82
JAN			JUL		
01...	1000	48.90	31...	1700	51.70
31...	1800	49.19	AUG		
FEB			31...	1800	52.60
28...	1730	49.38	SEP		
MAR			29...	1745	52.60
31...	1845	50.06			



02325700 SAMPALA LAKE NEAR GREENVILLE, FL

LOCATION.--Lat 30°23'03", long 83°32'20", in SE¼ sec.20, T.1 S., R.8 E., Madison County, Hydrologic Unit 03110102, on west shore of the northwest portion of the lake 8.3 mi (13.4 km) southeast of Greenville, 9.5 mi (15.3 km) southwest of Madison.

SURFACE AREA.--453 acres (0.71 mi², 1.83 km²).

DRAINAGE AREA.--7.13 mi² (18.5 km²).

PERIOD OF RECORD.--November 1974 to July 1977 (weekly) incomplete; August 1977 to March 1978 (weekly); April to September 1978 (bimonthly) incomplete; October 1978 to current year (monthly).

GAGE.--Nonrecording gage. Datum of gage is 99.61 ft (30.361 m) National Geodetic Vertical Datum of 1929. Gage readings have been reduced to elevations NGVD.

REMARKS.--Headwaters Sampala Swamp, San Pedro Bay and Econfina River, outlet at south end of lake.

COOPERATION.--Gage readings were furnished by Suwannee River Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 104.41 ft (31.824 m) Dec. 16, 1976, Jan. 4, 1977; minimum observed, 102.69 ft (31.300 m) Aug. 4, 1977.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
05...	1435	103.57	05...	1012	103.85
NOV			JUN		
04...	1300	103.57	07...	1235	103.88
30...	1355	103.59	JUL		
JAN			12...	1330	104.19
14...	1135	104.15	AUG		
FEB			09...	1100	104.11
08...	1245	104.14	SEP		
MAR			07...	1630	103.83
03...	1215	104.03			
APR					
12...	1220	104.19			

ECONFINA RIVER BASIN

02325820 ANDREWS LAKE NEAR SHADY GROVE, FL

LOCATION.--Lat 30°16'14", long 83°39'03", in NW¼ sec.32, T.2 S., R.7 E., Taylor County, Hydrologic Unit 03110102, on southwest shore, 1.2 mi (1.9 km) southwest of Econfina River, 1.7 mi (2.7 km) southwest of Shady Grove, 2.1 mi (3.4 km) northwest of Lake Bird Community, and 13.4 mi (21.6 km) northwest of Perry.

SURFACE AREA.--44.5 acres (0.07 mi², 0.18 km²).

DRAINAGE AREA.--0.34 mi² (0.88 km²).

PERIOD OF RECORD.--November 1974 to July 1975 (weekly) incomplete; September 1975 to September 1977 (fragmentary); October 1977 to current year (monthly).

GAGE.--Nonrecording gage. Datum of gage is 73.19 ft (22.308 m) National Geodetic Vertical Datum of 1929 (levels by Suwannee River Water Management District). Gage readings have been reduced to elevations NGVD.

REMARKS.--Lake will interconnect with Nose Lake at high stages, and at extreme high stage overflow into Econfina River Basin.

COOPERATION.--Gage readings were furnished by Suwannee River Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 77.43 ft (23.601 m) Dec. 2, 1976, Mar. 13, 1980; minimum observed, 75.57 ft (23.034 m) Aug. 19, 1977.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
05...	1521	76.19	05...	1037	76.89
NOV			JUN		
04...	1338	76.34	07...	1307	76.69
30...	1422	76.42	JUL		
JAN			12...	1153	77.03
14...	1210	77.11	AUG		
FEB			09...	1145	77.21
28...	1312	77.19	SEP		
MAR			07...	1700	77.11
03...	1445	77.05			
APR					
12...	1250	77.27			

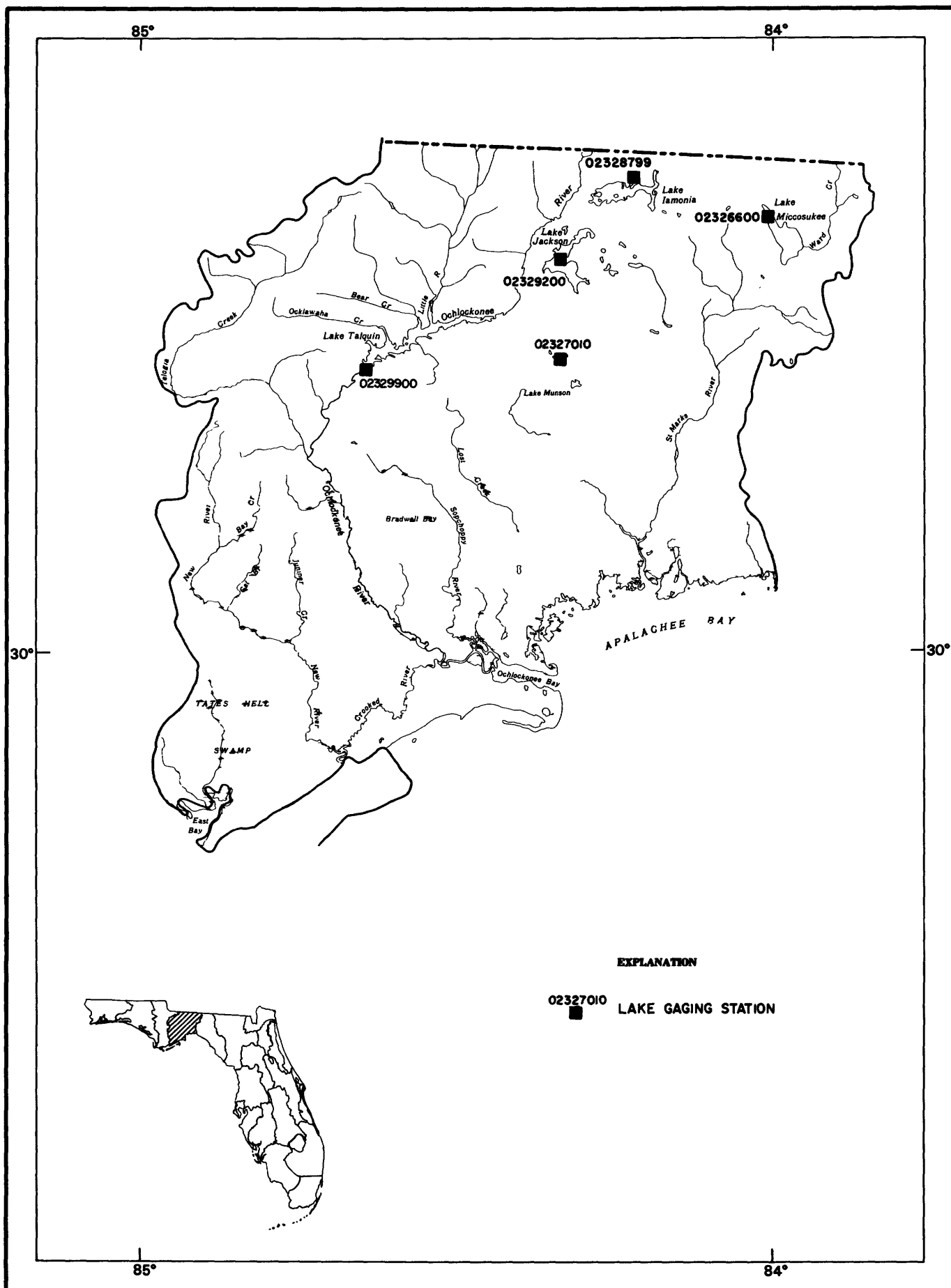


Figure 13. Location of lake gaging stations in the coastal area between the Aucilla and Ochlockonee Rivers, and in the St. Marks, Wakulla, and Ochlockonee River basins.

ST. MARKS RIVER BASIN

02326600 LAKE MICCOSUKEE NEAR MICCOSUKEE, FL

LOCATION.--Lat 30°36'14", long 84°00'15", in NW¼ sec.2, T.2 N., R.3 E., Jefferson County, Hydrologic Unit 03120001, at fish camp on west shore of lake, 2.3 mi (3.7 km) northeast of Miccosukee, Leon County.

SURFACE AREA.--6,312 acres (9.86 mi², 25.54 km²), at elevation 80 ft (24.4 m) above NGVD.

DRAINAGE AREA.--240 mi² (622 km²).

PERIOD OF RECORD.--August 1965 to September 1972 (weekly); October 1972 to current year (periodically).

GAGE.--Nonrecording gage. Datum of gage is 66.46 ft (20.257 m) National Geodetic Vertical Datum of 1929. Gage readings have been reduced to elevations NGVD.

REMARKS.--Lake elevation is controlled by two structures. The outflow at the south end has fixed timber pile dam. An earthen dam, with a fixed concrete spillway and an underdrain consisting of a 7 ft (2.1 m) culvert with lift gate, encircles a sinkhole at north end of lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 82.64 ft (25.189 m) Apr. 7, 1973; minimum observed, 72.45 ft (22.083 m) Jan. 12, 1972.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
23...	1245	78.16	19...	0930	79.50
NOV			MAY		
18...	1415	78.63	07...	1450	79.32
DEC			JUN		
17...	1350	78.68	24...	1245	79.16
JAN			JUL		
20...	1325	79.18	28...	1330	79.07
FEB			AUG		
24...	1030	79.57	23...	1135	79.06
MAR			SEP		
23...	1320	79.56	24...	1150	78.91

LOCATION.--Lat 30°24'10", long 84°20'05", in NE¼ sec.16, T.1 S., R.1 W., Leon County, Hydrologic Unit 03120001, on east shore of lake at Florida State University dock, 4.0 mi (6.4 km) southwest of State Capitol Building, Tallahassee. Auxillary staff gage 0.8 mi (1.3 km) north.

DRAINAGE AREA.--20.6 mi² (53.4 km²).

PERIOD OF RECORD.--February to December 1954, (weekly, incomplete); January 1955 to June 1960, (bimonthly, incomplete); July 1960 to November 1961 (monthly); January 1962 to October 1979 (bimonthly); January 1980 to current year (fragmentary). Published since October 1960.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929. Apr. 8, 1955 to Mar. 2, 1956, nonrecording gage at site 600 ft (183 m) northwest at datum 19.53 ft (5.953 m) higher. Since January, 1980, an auxiliary nonrecording gage 0.8 mi (1.3 km) northeast at present datum.

REMARKS.--Lake is a chain of lakes connected by Bradford Brook. When the lake level is high it is connected with two smaller lakes to the northwest - Lake Hiawatha and Lake Minnehaha. Surface outflow to the northwest is through Bradford Brook into Grassy Lake, thence into Munson Slough, and is controlled by three culverts, elevation 31.7 ft (9.66 m). Loss to ground water through sinkholes on the east shore was reduced by plugging in March 1954.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 37.08 ft (11.302 m) April 5, 1973; minimum observed, 21.00 ft (6.401 m) June 26, 1955.

[illegible]

OCHLOCKONEE RIVER BASIN

02329200 LAKE JACKSON NEAR TALLAHASSEE, FL

LOCATION.--Lat 30°32'37", long 84°19'23", in SW¼ sec.27, T.2 N., R.1 W., Leon County, Hydrologic Unit 03120003, on northeast side of lake, 3.0 mi (4.8 km) west of Meridian Road, and 7.4 mi (11.9 km) northwest of Tallahassee.

SURFACE AREA.--4,001 acres (6.25 mi² 16.19 km²), at elevation 87 ft (26.5 m) NGVD.

DRAINAGE AREA.--43.2 mi² (111.9 km²).

PERIOD OF RECORD.--March 1950 to January 1953, March 1954 to August 1956, September 1956 to August 1958 (fragmentary), September 1958 to current year. Records of elevation prior to October 1960 are available in file of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to July 12, 1971, at various sites on southwest shore at various datums. Nonrecording gage, September 1956 to August 1958, at various sites on southwest shore at various datums.

REMARKS.--Lake has no surface outlet. Some outflow from lake through sinkhole to ground water. Elevations in feet NGVD, for the period Dec. 4, 1965 to Sept. 30, 1980, were published in error as follows; Dec. 4, 1965 to May 29, 1965, -.34 ft, prorated to -.30 ft on June 1, 1965; June 2, 1965 to Oct. 6, 1965, -.30 ft; Oct. 7, 1965 to Sept. 30, 1980, -.37 ft; Oct. 1, 1980 to Aug. 17, 1981, -.36 ft. Records of elevation were revised and are in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 96.16 ft (29.005 m) June 18, 1966 (from recorder range in stage); minimum observed, 75.68 ft (23.067 m) Jan. 4, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 81.03 ft (24.698 m) Oct. 1; minimum, 78.54 ft (23.939 m) Jun. 16.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81.02	80.42	80.08	79.95	79.90	80.10	79.90	79.78	79.02	78.65	79.61	79.19
2	80.97	80.39	80.08	79.95	79.90	80.10	79.89	79.76	79.00	78.62	79.63	79.17
3	80.94	80.38	80.06	79.96	80.08	80.08	79.86	79.74	79.02	78.60	79.62	79.15
4	80.91	80.36	80.00	79.93	80.14	80.07	79.81	79.70	78.98	78.58	79.61	79.13
5	80.90	80.34	79.98	79.91	80.14	80.10	79.82	79.68	78.94	78.58	79.60	79.11
6	80.87	80.30	79.98	79.90	80.11	80.19	79.71	79.65	78.89	78.64	79.58	79.09
7	80.84	80.27	79.96	79.92	80.10	80.18	79.72	79.64	78.85	78.66	79.59	79.07
8	80.81	80.26	79.94	79.98	80.10	80.19	79.80	79.61	78.83	78.64	79.59	79.14
9	80.79	80.24	79.90	79.95	80.11	80.19	79.87	79.58	78.79	78.65	79.58	79.15
10	80.78	80.27	79.86	79.91	80.12	80.18	79.93	79.56	78.75	78.65	79.57	79.14
11	80.75	80.38	79.86	79.87	80.13	80.16	79.97	79.53	78.71	78.64	79.55	79.11
12	80.72	80.38	79.87	79.90	80.15	80.15	79.98	79.50	78.66	78.66	79.53	79.08
13	80.68	80.36	79.89	79.96	80.19	80.13	79.96	79.47	78.65	78.65	79.51	79.05
14	80.65	80.34	79.93	80.02	80.22	80.12	79.94	79.44	78.61	78.63	79.50	79.02
15	80.62	80.32	79.97	80.06	80.22	80.10	79.92	79.39	78.59	78.61	79.48	78.99
16	80.59	80.31	80.00	80.06	80.27	80.08	79.91	79.36	78.56	78.60	79.46	78.96
17	80.58	80.29	79.99	80.04	80.32	80.06	79.87	79.34	78.64	78.60	79.44	78.93
18	80.56	80.27	79.93	80.05	80.32	80.03	79.84	79.31	78.73	78.64	79.42	78.90
19	80.51	80.27	79.90	80.05	80.30	80.03	79.82	79.31	78.70	78.72	79.40	78.87
20	80.50	80.21	79.92	80.05	80.28	79.99	79.82	79.27	78.68	78.72	79.42	78.99
21	80.48	80.20	79.92	80.04	80.25	79.97	79.81	79.23	78.66	78.72	79.41	78.95
22	80.46	80.19	79.92	80.04	80.21	79.93	79.77	79.22	78.63	78.71	79.39	78.92
23	80.45	80.17	79.90	80.04	80.21	79.90	79.74	79.18	78.62	78.74	79.37	78.90
24	80.44	80.13	79.87	80.00	80.20	79.98	79.72	79.14	78.62	78.76	79.35	78.88
25	80.50	80.12	79.86	80.00	80.18	80.02	79.79	79.12	78.69	78.83	79.33	78.86
26	80.54	80.12	79.84	79.93	80.17	79.97	79.91	79.12	78.72	78.88	79.31	78.83
27	80.52	80.11	79.84	79.96	80.15	79.96	79.88	79.11	78.73	78.89	79.29	78.81
28	80.50	80.07	79.84	79.93	80.11	79.95	79.86	79.08	78.73	78.96	79.27	78.79
29	80.48	80.06	79.82	79.92	---	79.94	79.84	79.05	78.72	79.09	79.25	78.76
30	80.46	80.06	79.84	79.92	---	79.94	79.82	79.02	78.69	79.30	79.23	78.72
31	80.43	---	79.90	79.93	---	79.92	---	78.99	---	79.52	79.21	---
TOTAL	2500.25	2407.59	2477.65	2479.13	2244.58	2481.71	2395.48	2460.88	2362.41	2441.14	2463.10	2369.66
MEAN	80.65	80.25	79.92	79.97	80.16	80.06	79.85	79.38	78.75	78.75	79.45	78.99
MAX	81.02	80.42	80.08	80.06	80.32	80.19	79.98	79.78	79.02	79.52	79.63	79.19
MIN	80.43	80.06	79.82	79.87	79.90	79.90	79.71	78.99	78.56	78.58	79.21	78.72
CAL YR 1981	TOTAL	29953.13	MEAN	82.06	MAX	83.88	MIN	79.82				
WTR YR 1982	TOTAL	29083.58	MEAN	79.68	MAX	81.02	MIN	78.56				

02328799 LAKE IAMONIA NEAR BRADFORDVILLE, FL

LOCATION.--Lat 30°39'04", long 84°12'30", in NW¼ sec.23, T.3 N., R.1 E., Leon County, Hydrologic Unit 03120003, at northeast end of Van Brunt Arm portion of lake, 0.3 mi (0.5 km) southeast of Tall Timbers Research Station, and 6.2 mi (10 km) north of Bradfordville.

SURFACE AREA.--5,680 acres (8.9 mi², 23.1 km²) at elevation, 98 ft (29.9 m) NGVD.

DRAINAGE AREA.--101 mi² (162.5 km²), includes 22 mi² (35.4 km²) in Georgia.

PERIOD OF RECORD.--April 1919 to June 1937, 1957, 1963 (fragmentary); December 1974 to October 1975 (weekly); November 1975 to September 1977; February 1979 to September 1981 (weekly), October 1981 to September 1982 (monthly). Records published since February 1979.

GAGE.--Nonrecording gage. Datum of gage is 82.00 ft (24.994 m) National Geodetic Vertical Datum of 1929. November 1975 to September 1977, water-stage recorder at same site and datum. April 1919 to June 1937, at various sites and datums. Dec. 1974 to October 1975 at same site at datum 13.44 ft higher. Gage heights have been reduced to elevations NGVD.

REMARKS.--A concrete spillway weir with a crest elevation of 99 ft (30.2 m) NGVD, was constructed on the west end of the lake to stop outflow and was completed in 1910. The Ochlockonee River when flooded will enter the lake above this elevation. A earthen dike 1,150 ft (351 m) long, 150 ft (45.7 m) broad at the base, 20 ft (6.1 m) high and 12 ft (3.7 m) wide at the crest was constructed. The average elevation of the crest of the dike is about 102 ft (31 m) NGVD. A 150 ft (45.7 m) concrete spillway weir was also constructed with the dike, with a crest elevation of 98.6 ft (30.1 m) NGVD. The dike and weir was constructed on the northeast shore to stop outflow of the lake into a sink and was completed in 1940. A sheet pile dam capped by concrete with sluice gates was constructed at the west outlet of lake to control the outflow of the lake and the inflow from the Ochlockonee River and was completed in February 1975. Since February 1975 and prior to February 1981, the sheet pile dam has blown out three times and was replaced twice and was then removed in February of 1981.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 103.01 ft (31.397 m), Apr. 17, 1975; minimum observed, 96.00 ft (29.261 m) Oct. 20, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 4, 1948, reached at stage of 106.97 ft (32.604 m) from floodmarks from information by local resident. Lake observed dry, May 7, 1910, and in 1917 (month unknown), and Nov. 8, 1934, furnished by Dr. Komarek, Tall Timbers Research Center.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAR		
05...	1500	96.20	22...	1205	96.93
08...	1220	96.16	APR		
20...	1115	96.00	21...	1130	96.88
27...	1100	96.14	MAY		
NOV			05...	1415	96.84
19...	1120	96.15	JUN		
DEC			14...	1450	96.28
17...	1120	96.12	JUL		
JAN			21...	1416	96.33
18...	1230	96.27	AUG		
27...	1345	96.42	19...	0945	96.69
FEB			SEP		
22...	1308	97.09	24...	0905	96.50

OCHLOCKONEE RIVER BASIN

02329900 LAKE TALQUIN NEAR BLOXHAM, FL

LOCATION.--Lat 30°23'15", long 84°38'45", in SW¼ sec.16, T.1 S., R.4 W., Leon County, Hydrologic Unit 03120003, at left upstream end of Jackson Bluff Dam on Ochlockonee River, 1.0 mi (1.6 km) northwest of Bloxham, and 3.5 mi (5.6 km) downstream from Oklawaha Creek.

SURFACE AREA.--6,850 acres (10.7 mi², 27.7 km²), at elevation 60.0 ft (18.29 m) NGVD, from data furnished by Florida Power Corporation.

DRAINAGE AREA.--1,700 mi² (4,400 km²).

PERIOD OF RECORD.--January 1930 to September 1950 (monthend contents only, published only in WSP 1304); October 1951 to September 1960 (month-end elevations and contents); October 1960 to current year (monthend elevations, contents and daily elevations).

REVISED RECORDS.--WSP 1905, WDR FL-76-4: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Florida Power Corp.).

REMARKS.--Reservoir is formed by concrete dam with riprapped earth embankments. Spillway is equipped with seven taintor gates, each 16 ft (4.9 m) high by 25 ft (7.6 m) wide. Storage began in June 1929; water in lake first reached minimum operating level January 1930. Usable capacity, 69,800 acre-ft (86.1 hm³) between elevations, 60.0 ft (18.29 m), minimum operating level, and 68.5 (20.88 m), top of closed taintor gates. Contents given herein are above minimum operating level. Dead storage is unknown.

COOPERATION.--Records furnished by Florida Department of Natural Resources, Division of Recreation and Parks.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily contents, 99,400 acre-ft (123 hm³) Sept. 22, 1969; elevation, 69.05 ft (21.689 m); maximum instantaneous elevation, 71.60 ft (21.824 m) Sept. 22, 1969; minimum daily elevation after January 1930, 48.70 ft (14.844 m) Oct. 22,23, 1957 (earth embankment breached).

EXTREMES FOR CURRENT YEAR.--Maximum daily contents, 75,000 acre-ft (92.5 hm³) Jan. 3, elevation, 68.95 ft (21.016 m); minimum daily contents, 62,800 acre-ft (77.4 hm³) Oct. 22-25; elevation, 67.80 ft (20.665 m).

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	68.10	65,800	-
Oct. 31.....	68.30	67,800	+2,000
Nov. 30.....	68.70	71,800	+4,000
Dec. 31.....	68.80	72,800	+1,000
CAL YR 1981.....			+3,000
Jan. 31.....	68.30	67,800	+5,000
Feb. 28.....	68.45	69,300	+1,500
Mar. 31.....	68.25	67,300	-2,000
Apr. 30.....	68.80	72,800	+5,500
May 31.....	68.40	68,800	-4,000
June 30.....	68.40	68,800	0
July 31.....	68.80	72,800	+4,000
Aug. 31.....	68.25	67,300	-5,500
Sept. 30.....	68.40	68,800	-1,500
WTR YR 1982.....			+3,000

OCHLOCKONEE RIVER BASIN

199

02329900 LAKE TALQUIN NEAR BLOXHAM, FL--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68.10	68.30	68.60	68.90	68.35	68.35	68.25	68.80	68.30	68.30	68.40	68.25
2	68.10	68.30	68.80	68.90	68.45	68.35	68.15	68.80	68.25	68.30	68.30	68.20
3	68.10	68.35	68.80	68.95	68.65	68.30	68.10	68.80	68.25	68.15	68.35	68.20
4	68.10	68.35	68.80	68.80	68.80	68.25	68.00	68.80	68.20	68.00	68.35	68.25
5	68.05	68.35	68.80	68.75	68.70	68.20	68.00	68.85	68.10	68.00	68.35	68.25
6	68.00	68.35	68.80	68.50	68.65	68.40	68.00	68.80	68.10	68.10	68.40	68.30
7	68.00	68.35	68.85	68.35	68.60	68.35	68.00	68.70	68.05	68.30	68.40	68.30
8	68.00	68.30	68.80	68.45	68.45	68.55	68.10	68.65	68.05	68.40	68.40	68.35
9	68.00	68.30	68.80	68.30	68.40	68.50	68.30	68.60	68.10	68.50	68.45	68.40
10	68.00	68.35	68.70	68.25	68.40	68.40	68.45	68.50	68.10	68.60	68.50	68.45
11	67.95	68.40	68.65	68.30	68.40	68.45	68.55	68.40	68.15	68.60	68.45	68.50
12	67.95	68.40	68.60	68.30	68.35	68.60	68.55	68.35	68.15	68.60	68.45	68.50
13	67.95	68.45	68.60	68.30	68.50	68.35	68.60	68.35	68.20	68.70	68.60	68.45
14	67.95	68.50	68.60	68.30	68.35	68.35	68.55	68.30	68.30	68.60	68.70	68.35
15	67.95	68.50	68.65	68.55	68.30	68.35	68.50	68.30	68.30	68.45	68.70	68.30
16	67.95	68.50	68.60	68.50	68.10	68.40	68.65	68.30	68.30	68.40	68.70	68.20
17	67.95	68.55	68.70	68.70	68.30	68.45	68.50	68.30	68.40	68.40	68.65	68.25
18	67.95	68.55	68.70	68.60	68.35	68.45	68.50	68.25	68.80	68.40	68.60	68.30
19	67.90	68.60	68.70	68.40	68.40	68.45	68.55	68.30	68.70	68.40	68.50	68.40
20	67.90	68.65	68.60	68.25	68.55	68.40	68.50	68.30	68.60	68.50	68.35	68.50
21	67.85	68.65	68.60	68.20	68.60	68.35	68.40	68.30	68.50	68.50	68.25	68.60
22	67.80	68.60	68.55	68.25	68.60	68.25	68.35	68.30	68.45	68.60	68.20	68.60
23	67.80	68.60	68.50	68.20	68.55	68.20	68.40	68.30	68.45	68.50	68.20	68.60
24	67.80	68.60	68.50	68.20	68.45	68.30	68.40	68.30	68.45	68.40	68.20	68.50
25	67.80	68.65	68.45	68.20	68.50	68.35	68.50	68.35	68.60	68.40	68.20	68.45
26	68.00	68.65	68.40	68.20	68.55	68.40	68.70	68.40	68.60	68.40	68.20	68.45
27	68.10	68.65	68.35	68.20	68.55	68.40	68.70	68.55	68.50	68.40	68.20	68.40
28	68.15	68.65	68.30	68.25	68.45	68.40	68.65	68.55	68.40	68.40	68.25	68.40
29	68.20	68.70	68.35	68.30	---	68.30	68.70	68.50	68.40	68.80	68.30	68.40
30	68.30	68.70	68.60	68.30	---	68.30	68.80	68.40	68.40	68.80	68.30	68.40
31	68.30	---	68.80	68.30	---	68.25	---	68.40	---	68.80	68.25	---
TOTAL	2107.95	2054.85	2127.55	2120.95	1917.30	2119.40	2052.40	2122.80	2050.15	2121.70	2120.15	2051.50
MEAN	68.00	68.50	68.63	68.42	68.48	68.37	68.41	68.48	68.34	68.44	68.39	68.38
MAX	68.30	68.70	68.85	68.95	68.80	68.60	68.80	68.85	68.80	68.80	68.70	68.60
MIN	67.80	68.30	68.30	68.20	68.10	68.20	68.00	68.25	68.05	68.00	68.20	68.20
CAL YR 1981	TOTAL	24952.05	MEAN	68.36	MAX	69.20	MIN	67.80				
WTR YR 1982	TOTAL	24966.70	MEAN	68.40	MAX	68.95	MIN	67.80				

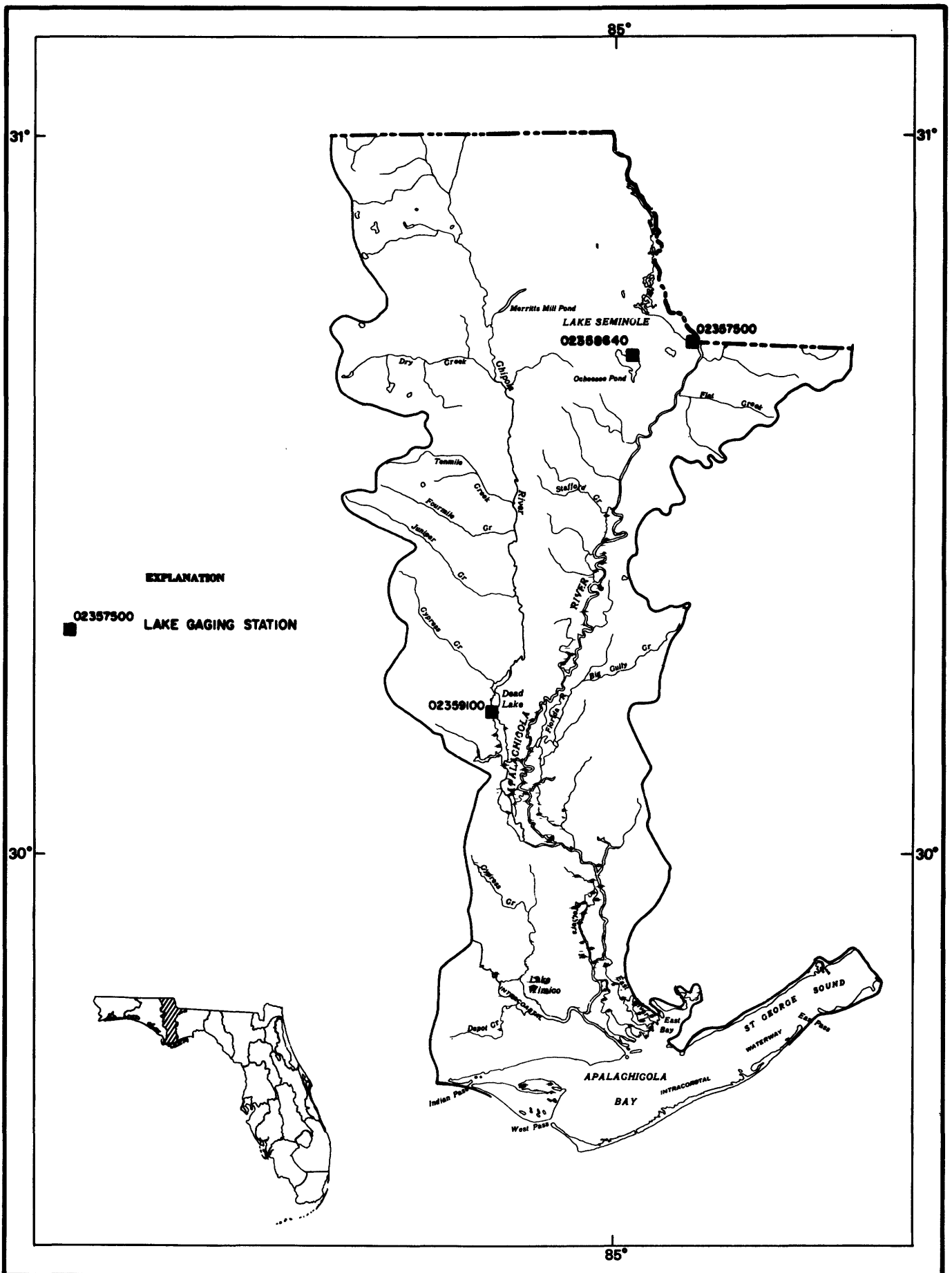


Figure 14. Location of lake gaging stations in the lower Chattahoochee and Apalachicola River basins including the Chipola River basin, coastal areas and offshore islands.

02357500 LAKE SEMINOLE AT CHATTAHOOCHEE, FL

LOCATION.--Lat 30°42'29", long 84°51'56", in NE¼ sec.31, T.4 N., R.6 W., Jackson County, Hydrologic Unit 03130004, near left bank in the control house of Jim Woodruff Dam on Chattahoochee River, 0.6 mi (1.0 km) upstream from bridge on U.S. Highway 90, and 1.5 mi (2.4 km) northwest of Chattahoochee.

SURFACE AREA.--37,500 acres (58.6 mi², 151.8 km²), at elevation 77.0 ft (23.47 m) NGVD, from data furnished by Corps of Engineers.

DRAINAGE AREA.--17,100 mi² (44,289 km²), approximately.

PERIOD OF RECORD.--July 1954 to current year (monthend elevations and contents). Prior to October 1959, published as Jim Woodruff Reservoir at Chattahoochee. Elevations published since October 1960.

REVISED RECORDS.--WSP 1554: 1955-57.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to July 22, 1957, nonrecording gage at same site at datum 53.96 ft (16.447 m) higher. Prior to 1981, on right upstream lock wall at same datum.

REMARKS.--Reservoir is formed by earthfill dam with concrete fixed-crest spillway, a center channel spillway with 16 vertical lift gates 40 ft (12.2 m) long and 20.5 ft (9.30 m) high, and a side channel navigation lock 82 ft (25.0 m) wide. Total capacity at elevation 77.0 ft (23.47 m), normal pool, is 367,320 acre-ft (453 hm³), of which 36,170 acre-ft (44.6 hm³) between elevation 77.0 ft (23.47 m) and 76.0 ft (23.10 m) are used for pondage. Gates closed on May 20, 1954; filling of lake accomplished in several stages between that date and Feb. 4, 1957, when the pool first reached normal operating level, elevation 77.0 ft (23.47 m). Figures given herein represent total contents. Lake is used for navigation and power.

COOPERATION.--Monthend elevation, change in contents and elevations, furnished by Corps of Engineers, Mobile District.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 433,300 acre-ft (534 hm³) Apr. 7, 8, 1960, elevation, 78.66 ft (23.976 m); minimum contents after Feb. 4, 1957, 272,100 ft (335 hm³) Nov. 27, 1978, elevation, 74.18 ft (22.610 m).

EXTREMES FOR CURRENT YEAR.--Maximum contents, 405,400 acre-ft (500 hm³) June 11, elevation, 77.98 ft (23.768 m); minimum contents, 275,700 acre-ft (340 hm³) Oct. 26, elevation, 74.30 ft (22.647 m).

MONTHEND ELEVATION AND CONTENTS, AT 2400, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	75.82	324,900	--
Oct. 31.....	74.98	297,000	-27,900
Nov. 30.....	75.60	317,400	+20,400
Dec. 31.....	77.69	393,800	+76,400
CAL YR 1981.....			+57,700
Jan. 31.....	71.18	374,100	-19,700
Feb. 28.....	77.31	379,100	+ 5,000
Mar. 31.....	77.34	380,200	+ 1,100
Apr. 30.....	77.56	388,700	- 8,500
May 31.....	77.30	378,700	-10,000
June 30.....	76.95	365,400	-13,300
July 31.....	77.72	395,000	+29,600
Aug. 31.....	77.08	370,300	-24,700
Sept. 30.....	77.13	372,200	+ 1,900
WTR YR 1982.....			+47,300

APALACHICOLA RIVER BASIN

02357500 LAKE SEMINOLE AT CHATTAHOOCHEE, FL--Continued

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75.85	74.96	75.68	77.69	77.12	77.30	77.31	77.52	77.42	76.99	77.64	77.19
2	75.94	74.88	75.91	77.63	77.27	77.50	77.36	77.45	77.58	76.97	77.52	77.30
3	75.97	74.93	76.06	77.45	77.56	77.49	77.32	77.56	77.59	76.74	77.55	77.46
4	75.70	75.02	76.25	77.55	77.50	77.42	77.13	77.72	77.63	76.50	77.58	77.59
5	75.45	75.11	76.35	77.51	77.28	77.51	76.92	77.62	77.73	76.45	77.57	77.32
6	75.49	75.22	76.27	77.47	77.57	77.61	77.16	77.47	77.32	76.40	77.58	77.06
7	75.51	75.25	76.23	77.56	77.79	77.33	77.62	77.62	77.08	76.34	77.74	77.18
8	75.52	75.10	76.13	77.66	77.61	77.44	77.64	77.78	77.11	76.18	77.44	77.33
9	75.49	74.97	76.13	77.56	77.38	77.59	77.56	77.50	77.16	76.09	77.11	77.44
10	75.47	75.03	76.05	77.54	77.38	77.56	77.78	77.57	77.67	76.49	77.27	77.52
11	75.27	75.13	76.11	77.53	77.49	77.57	77.56	77.50	77.94	76.33	77.44	77.52
12	75.02	75.21	76.20	77.51	77.48	77.53	77.20	77.55	77.74	76.22	77.71	77.32
13	75.00	75.31	76.12	77.57	77.28	77.54	77.33	77.61	77.34	76.57	77.64	77.17
14	74.98	75.34	76.07	77.53	77.42	77.30	77.49	77.65	77.02	76.57	77.68	77.13
15	74.95	75.27	76.22	77.44	77.46	77.17	77.64	77.59	76.70	77.09	77.43	77.41
16	74.94	75.19	76.17	77.61	77.62	77.25	77.63	77.14	76.49	77.41	77.17	77.52
17	74.91	75.24	76.22	77.57	77.62	77.44	77.65	76.72	76.52	77.55	77.32	77.72
18	74.71	75.27	76.48	77.42	77.76	77.61	77.35	76.84	76.78	77.41	77.45	77.51
19	74.50	75.33	76.61	77.44	77.59	77.51	77.07	76.98	76.87	77.26	77.59	77.24
20	74.39	75.49	76.58	77.66	77.55	77.61	77.27	77.15	76.63	77.40	77.55	77.00
21	74.42	75.67	76.61	77.66	77.58	77.35	77.57	77.34	76.41	77.59	77.67	77.07
22	74.48	75.57	76.73	77.65	77.60	77.37	77.54	77.39	76.60	77.58	77.38	77.19
23	74.51	75.47	76.88	77.72	77.54	77.50	77.57	77.13	76.88	77.68	77.04	77.28
24	74.55	75.50	76.97	77.45	77.50	77.56	77.66	77.03	77.09	77.61	77.14	77.31
25	74.47	75.58	76.92	77.30	77.42	77.59	77.77	77.29	77.10	77.26	77.28	77.26
26	74.37	75.65	76.87	77.50	77.40	77.64	77.52	77.45	77.20	77.08	77.27	76.97
27	74.46	75.74	76.82	77.54	77.52	77.58	77.57	77.58	76.99	77.39	77.31	76.72
28	74.60	74.81	76.80	77.62	77.37	77.31	77.66	77.70	76.75	77.57	77.45	76.77
29	74.75	75.72	77.24	77.64	---	77.15	77.71	77.78	76.74	77.63	77.15	76.89
30	74.90	75.60	77.39	77.69	---	77.18	77.54	77.55	76.97	77.62	76.84	77.06
31	75.00	---	77.55	77.35	---	77.28	---	77.30	---	77.76	77.01	---
TOTAL	2325.57	2258.56	2370.62	2404.02	2169.66	2400.79	2324.10	2400.08	2313.05	2387.73	2399.52	2317.45
MEAN	75.02	75.29	76.47	77.55	77.49	77.44	77.47	77.42	77.10	77.02	77.40	77.25
MAX	75.97	75.74	77.55	77.72	77.79	77.64	77.78	77.78	77.94	77.76	77.74	77.72
MIN	74.37	74.81	75.68	77.30	77.12	77.15	76.92	76.72	76.41	76.09	76.84	76.72
CAL YR 1981	TOTAL	27803.14	MEAN	76.17	MAX	77.80	MIN	74.33				
WTR YR 1982	TOTAL	28071.15	MEAN	76.91	MAX	77.94	MIN	74.37				

APALACHICOLA RIVER BASIN

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02358640 OCHEESE POND NEAR SNEADS, FL

LOCATION.--Lat 30°41'32", long 84°58'21", in NW¼ sec.1, T.3 N., R.8 W., Jackson County, Hydrologic Unit 03130004, near north shore of lake, 1.8 mi (2.9 km) southeast of Grand Ridge, and 4.2 mi (6.8 km) west of Sneads.

SURFACE AREA.--2,230 acres, (3.5 mi² 9.0 km²).

DRAINAGE AREA.--24.2 mi² (62.7 km²).

PERIOD OF RECORD.--September and October 1979 (one observation each month); December 1979 to November 1980 (weekly); March 1981 to current year (fragmentary). Records of daily elevations, October 1948 to March 1950, furnished by Corps of Engineers are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is 17.72 ft (5.401 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 5, 1981, nonrecording gage at different site at datum 89.64 ft (27.322 m) higher. October 1948 to March 1950, nonrecording gage established by Corps of Engineers, at site on south shore of lake at datum, 86.17 ft higher.

REMARKS.--Outflow from the lake is through two ditches below SR 280 at south end of lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 111.67 ft (34.037 m) Apr. 19, 1980; minimum observed, 105.62 ft (32.193 m) Oct. 13, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation observed, 117.97 ft (35.957 m) Oct. 22, 1948, furnished by Corps of Engineers.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	ELEV- ATION ABOVE NGVD (FEET)
OCT 13...	105.62

LOCATION.--Lat 30°11'40", long 85°11'50", in SE¼ sec.25, T.3 S., R.10 W., Gulf County, Hydrologic Unit 03130012, on west shore 5.2 mi (8.4 km) upstream from outlet, and 5.6 mi (9.0 km) north of Wewahitchka.

DRAINAGE AREA.--1,206 mi² (3,124 km²). High-water diversion above dam into Dead Lake through Apalachicola River overflow.

PERIOD OF RECORD.--August 1965 to September 1976, October 1977 to current year (weekly); October 1976 to September 1977 (monthly) incomplete.

GAGE.--Nonrecording gage. Datum of gage is 6.34 ft (1.932 m) National Geodetic Vertical Datum of 1929. Gage readings have been reduced to elevations above NGVD.

REMARKS.--Lake is formed by the Chipola River and a lowhead interlocking sheet pile weir at an elevation of 18.2 ft (5.55 m) at south end of lake above the Chipola cutoff. Control gates were installed July 5, 1974. Lake level lowered October to December 1974. Apalachicola River overflows into lake at extreme high stages.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 25.64 ft (7.815 m) Jan. 31, 1978; minimum observed, 14.34 ft (4.371 m) Nov. 27, Dec. 14, 1981 (caused by temporary removal of control gates, lowering lake level); prior to Nov. 27, 1981, minimum observed, 15.14 ft (4.615 m) Nov. 19, 1974, could have been lower during December 1974.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 21.66 ft (6.602 m) Feb. 9; minimum observed, 14.34 ft (4.371 m) Nov. 27, Dec. 14 (caused by temporary removal of control gates, lowering lake level).

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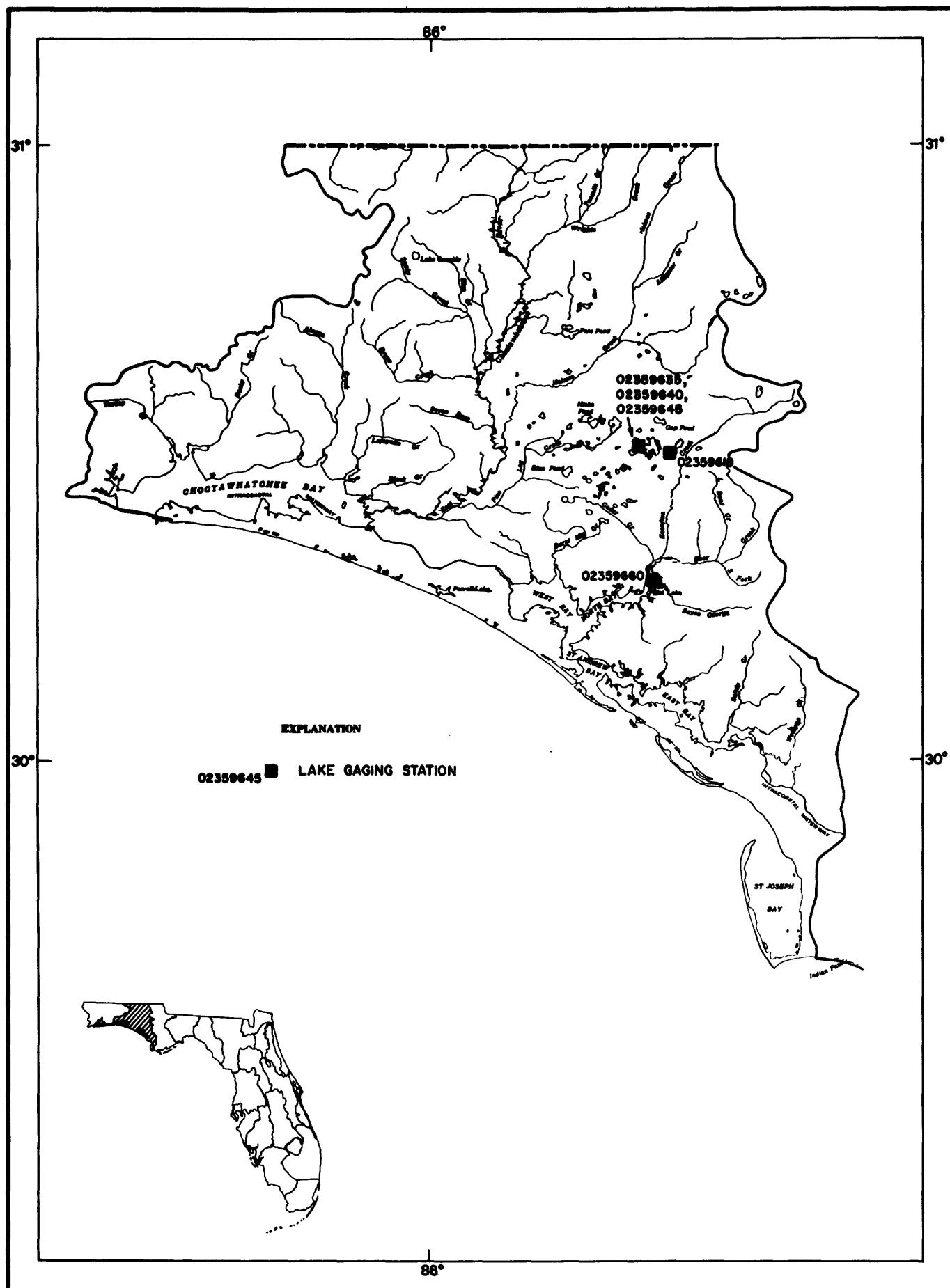


Figure 15. Location of lake gaging stations in the Pea River basin, Choptawhatchee River below Pea River, and inflow to and coastal areas for St. Andrews and Choptawhatchee Bays.

ECONFINA CREEK BASIN

02359618 PORTER LAKE NEAR GREENHEAD, FL

LOCATION.--Lat 30°29'50", long 85°33'05", in SW¼ sec.9, T.1 N., R.13 W., Washington County, Hydrologic Unit 03140101, on west shore near southwest end of lake, 6.6 mi (10.6 km) east of Greenhead.

SURFACE AREA.--929 acres (1.45 mi², 3.76 km²) at elevation 70 ft (21.3 m) NGVD.

DRAINAGE AREA.--7.64 mi² (19.79 km²).

PERIOD OF RECORD.--January 1961 to September 1970 (weekly), incomplete; October 1970 to current year (periodically).

GAGE.--Nonrecording gage. Datum of gage is 52.27 ft (15.932 m) National Geodetic Vertical Datum of 1929. Gage readings have been reduced to elevations NGVD.

REMARKS.--Lake is in a closed basin of lakes and ponds, fed by White Oak Creek, in the western part of Econfina Creek basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed elevation, 73.69 ft (22.461 m) Aug. 6, 1978; minimum observed, 53.22 ft (16.221 m) Dec. 8, 1969.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	TEMPER- ATURE (DEG C)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	TEMPER- ATURE (DEG C)
OCT				AUG			
21...	1500	64.05	--	13...	1315	62.61	--
DEC				18...	1800	62.67	--
22...	1045	--	10.5	29...	1240	62.45	--
MAY				SEP			
04...	1725	62.09	--	04...	1745	62.45	--
JUL				25...	1700	62.17	--
22...	1700	61.57	--				
29...	1945	61.97	--				

02359635 CLARK'S HOLE (HAMLIN POND) NEAR GREENHEAD, FL

LOCATION.--Lat 30°29'50", long 85°35'55", in SW¼ sec.12, T.1 N., R.14 W., Washington County, Hydrologic Unit 03140101, on south side of hole, 0.5 mi (0.8 km) south of Deadening Cemetery, and 3.7 mi (5.9 km) east of Greenhead.

SURFACE AREA.--Indeterminate.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--February 1962 to September 1970 (weekly), incomplete; October 1970 to September 1975 (periodically); October 1975 to 1977 (annually); October 1977 to current year (fragmentary). Annual readings are made for low-water comparison with Gully Lake and Wages Pond in the closed basin.

GAGE.--Nonrecording gage. Datum of gage is 42.39 ft (12.920 m) National Geodetic Vertical Datum of 1929. Gage readings have been reduced to elevations NGVD.

REMARKS.--Lake is in a closed basin of lakes and ponds, fed by White Oak Creek, in the western part of Econfina Creek basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 67.04 ft (20.434 m) Aug. 10, 1979, from high-water mark; minimum observed, 44.94 ft (13.698 m) May 6, 1969. Lake was observed dry on Nov. 19, 1968.

CURRENT YEAR MINIMUM: 49.97 ft (15.231 m) May 6.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	TEMPER- ATURE (DEG C)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	TEMPER- ATURE (DEG C)
OCT				MAR			
21...	1435	54.06	--	22...	1200	51.43	24.5
DEC				MAY			
22...	1120	51.98	8.5	04...	1155	50.09	--
JAN				06...	1350	49.97	28.0
21...	1145	52.07	--	AUG			
FEB				13...	1250	54.77	--
10...	1405	52.21	17.0				

ECONFINA CREEK BASIN

02359640 WAGES POND NEAR GREENHEAD, FL

LOCATION.--Lat 30°30'05", long 85°35'55", in SW¼ sec.12, T.1 N., R.14 W., Washington County, Hydrologic Unit 03140101, on east shore of pond, 0.2 mi (0.3 km) southwest of Deadening Cemetery, and 3.7 mi (5.9 km) east of Greenhead.

SURFACE AREA.--99.9 acres (0.16 mi², 0.40 km²), at about elevation 57 ft (17.4 m) NGVD.

DRAINAGE AREA.--41.2 mi² (106.7 km²).

PERIOD OF RECORD.--February 1962 to September 1970 (weekly), incomplete; October 1970 to September 1975 (periodically); October 1975 to 1977 (annually); October 1977 to current year (periodically). Annual readings are made for low-water comparison with Clark's Hole and Gully Lake in the closed basin.

GAGE.--Nonrecording gage. Datum of gage is 45.61 ft (13.902 m) National Geodetic Vertical Datum of 1929. Gage readings have been reduced to elevations NGVD.

REMARKS.--Pond is in a closed basin of lakes and ponds fed by White Oak Creek in the western part of Econfina Creek basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 65.68 ft (20.019 m) Sept. 30, 1979, from high-water mark; minimum observed, 51.49 ft (16.694 m) May 7, 1969.

CURRENT YEAR MINIMUM: Elevation observed, 54.80 ft (16.703 m) May 6.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	TEMPER- ATURE (DEG C)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	TEMPER- ATURE (DEG C)
OCT 20...	1430	58.52	--	MAY 06...	1340	54.80	--
FEB 10...	1350	--	19.5	AUG 13...	1230	55.57	--
MAY 04...	1345	54.91	--				

02359660 DEER POINT LAKE NEAR PANAMA CITY, FLA.

LOCATION.--Lat. 30°17'57", long 85°34'50", in SE¼ sec.19, T.2 S., R.13 W., Bay County, Hydrologic Unit 03140101, on east shore of lake, on private dock 0.3 mi (8.5 km) north of public boat landing, 2.4 mi (3.9 km) north of Deer Point Dam, and 10 mi (16 km) northeast of Panama City.

SURFACE AREA.--4,698 acres, (7.34 mi² 19.01 km²) at elevation 4.3 ft (1.31 m) NGVD.

DRAINAGE AREA.--435 mi² (1,127 km²), of which 43.9 mi² (113.7 km²) is noncontributing.

PERIOD OF RECORD.--November 1961 to September 1962 (fragmentary); October 1962 to October 1978, January to June 1979, and February 1981 to current year; November and December 1978, July 1979 to January 1981 (weekly).

REVISED RECORD.--WRD FL-78-4: 1962-77.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to June 4, 1965 at site 0.3 mi (0.5 km) south at datum then in use.

REMARKS.--Lake is formed by fixed concrete-capped sheet-pile dam with underpass tube and valve; crest of dam is at elevation 4.3 ft (1.31 m). Dam was completed on Nov. 17, 1961, and was filled to normal elevation of 4.6 ft (1.40 m) Dec. 2, 1961.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 7.67 ft (2.338 m) July 31, 1975, from high-water mark; minimum elevation, 1.2 ft (0.37 m) estimated, Jan. 6, 1981, (caused by drawdown of lake level for eutrophication); prior to Jan. 6, 1981, minimum observed, 4.46 ft (1.359 m) Oct. 14, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 5.59 ft (1.704 m) July 24; minimum observed, 4.57 ft (1.393 m) Oct. 8.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

ONCE DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.63	4.63	4.65	4.91	4.71	4.77	4.71	4.71	4.69	4.93	5.23	4.83
2	4.65	4.61	4.67	4.85	4.73	4.75	4.73	4.71	4.69	4.85	5.17	4.81
3	4.63	4.59	4.63	4.85	4.89	4.75	4.73	4.73	4.67	4.79	5.05	4.81
4	4.63	4.59	4.65	4.95	5.05	4.73	4.71	4.71	4.65	4.81	4.97	4.79
5	4.61	4.61	4.67	4.87	5.03	4.73	4.71	4.69	4.65	4.91	4.95	4.79
6	4.59	4.61	4.67	4.83	5.03	4.77	4.73	4.69	4.65	5.03	4.95	4.77
7	4.59	4.59	4.65	4.79	4.97	4.83	4.71	4.67	4.63	4.97	4.91	4.77
8	4.57	4.61	4.63	4.75	4.85	4.87	4.91	4.67	4.61	4.95	4.95	4.77
9	4.59	4.61	4.65	4.75	4.77	4.83	5.05	4.69	4.59	4.99	4.99	4.91
10	4.61	4.63	4.63	4.73	4.79	4.79	5.19	4.73	4.61	4.97	5.03	4.95
11	4.61	4.65	4.61	4.71	4.83	4.73	5.13	4.73	4.59	4.99	5.07	5.03
12	4.59	4.67	4.61	4.71	4.97	4.71	5.05	4.71	4.73	4.97	5.13	5.01
13	4.61	4.65	4.65	4.75	5.05	4.71	4.91	4.69	4.71	4.97	5.21	5.03
14	4.61	4.63	4.73	4.83	4.93	4.71	4.83	4.71	4.69	4.87	5.27	5.03
15	4.63	4.63	4.75	4.97	4.89	4.69	4.77	4.71	4.67	4.89	5.19	5.09
16	4.61	4.61	4.73	4.95	4.91	4.69	4.75	4.69	4.65	4.91	5.13	5.03
17	4.63	4.63	4.71	4.83	4.95	4.69	4.73	4.71	4.85	4.91	5.05	4.91
18	4.63	4.61	4.71	4.81	4.91	4.69	4.75	4.73	5.09	4.87	5.01	4.83
19	4.63	4.63	4.69	4.75	4.85	4.67	4.73	4.71	5.03	4.85	4.97	4.81
20	4.61	4.61	4.67	4.77	4.81	4.67	4.71	4.69	4.95	4.99	4.95	4.79
21	4.61	4.61	4.63	4.75	4.77	4.69	4.73	4.69	4.83	4.97	4.93	4.83
22	4.61	4.61	4.63	4.75	4.73	4.71	4.75	4.67	4.75	5.05	4.91	4.79
23	4.61	4.63	4.65	4.73	4.75	4.73	4.73	4.69	4.81	5.33	4.91	4.75
24	4.61	4.63	4.67	4.73	4.73	4.83	4.71	4.69	4.89	5.59	4.89	4.73
25	4.63	4.65	4.67	4.73	4.71	4.89	4.75	4.75	4.87	5.51	4.87	4.71
26	4.65	4.65	4.65	4.71	4.73	4.93	4.87	4.73	4.87	5.29	4.85	4.73
27	4.69	4.63	4.65	4.69	4.73	4.91	4.83	4.76	4.89	5.27	4.85	4.75
28	4.67	4.61	4.65	4.69	4.75	4.87	4.81	4.73	5.09	5.25	4.85	4.75
29	4.65	4.63	4.67	4.67	---	4.75	4.77	4.71	5.05	5.25	4.85	4.73
30	4.63	4.63	4.69	4.67	---	4.73	4.73	4.71	5.01	5.25	4.83	4.71
31	4.61	---	4.71	4.69	---	4.73	---	4.73	---	5.24	4.85	---

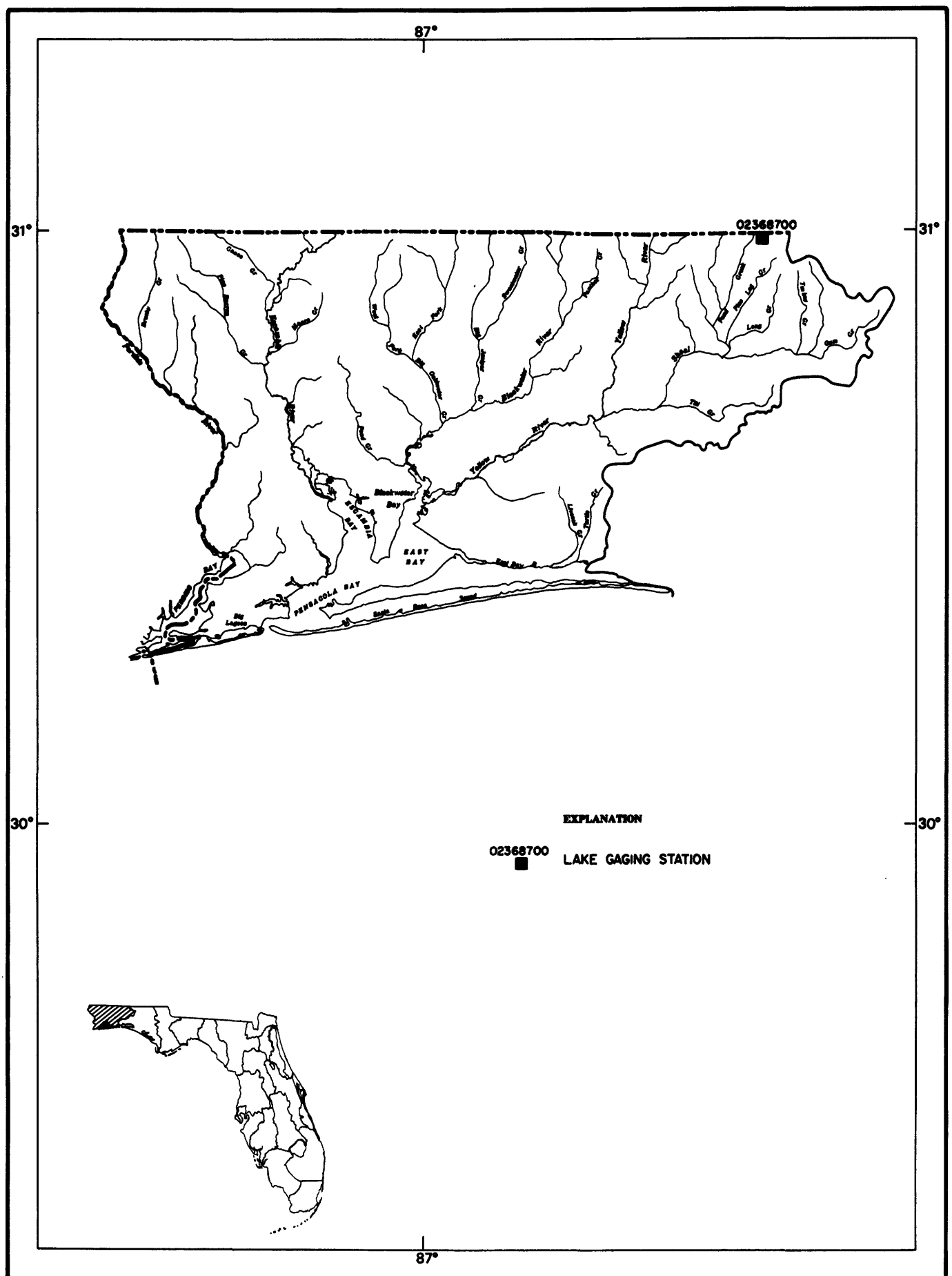


Figure 16. Location of lake gaging stations in the Yellow, Blackwater, lower Conecuh, Escambia and Perdido River basins; and inflow to and coastal area for Escambia and Perdido Bays.

02368700 LAKE JACKSON NEAR PAXTON, FL

LOCATION.--Lat 30°59'13", long 86°19'40", in SE¼ sec.27, T.6 N., R.21 W., Walton County, Hydrologic Unit 03140103, on south shore of lake, 1.7 mi (2.7 km) northwest of Paxton.

SURFACE AREA.--400 acres (0.6 mi², 1.6 km²), approximately, at elevation 253 ft (77.1 m) NGVD.

DRAINAGE AREA.--2 mi² (5 km²), approximately.

PERIOD OF RECORD.--September 1966 to September 1970; March 1975 to current year (weekly).

GAGE.--Nonrecording gage. Datum of gage is 248.66 ft (75.792 m) National Geodetic Vertical Datum of 1929. Gage readings have been reduced to elevations NGVD.

REMARKS.--Outflow from lake through unnamed tributary into Pond Creek.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 256.46 ft (78.169 m) Apr. 10, 1975; minimum observed, 252.64 ft (77.005 m) Nov. 8, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 255.30 ft (77.815 m) Feb. 12; minimum observed, 253.58 ft (77.291 m) Nov. 28, Dec. 6.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
ONCE WEEKLY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	253.76	---	---	---	---	---	---	---	---	---	---
2	---	---	---	254.32	---	---	---	255.02	---	254.40	---	---
3	253.92	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	254.71	---	---	254.80
5	---	---	---	---	---	---	255.00	---	---	---	---	---
6	---	253.74	253.58	---	255.18	255.21	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	254.76	---
8	253.82	---	---	---	---	---	---	254.97	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	254.56	---	---	254.96	---	---	254.42	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	255.30	---	---	---	254.51	---	---	254.68
13	---	---	---	---	---	255.21	---	---	---	---	---	---
14	---	---	253.72	---	---	---	---	---	---	---	---	---
15	253.74	253.66	---	---	---	---	---	254.86	---	---	254.66	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	254.54	---	---
18	---	---	---	---	---	---	254.90	---	---	---	---	254.64
19	---	---	---	254.74	---	---	---	---	254.36	---	---	---
20	---	---	253.74	---	255.20	---	---	---	---	---	---	---
21	---	253.64	---	---	---	255.14	---	---	---	---	---	---
22	---	---	---	---	---	---	---	254.86	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	254.80	---
24	---	---	---	---	---	---	254.96	---	---	254.46	---	---
25	---	---	---	---	---	---	---	---	---	---	---	254.48
26	253.84	---	253.74	---	---	---	---	---	254.34	---	---	---
27	---	---	---	---	255.12	---	---	---	---	---	---	---
28	---	253.58	---	---	---	255.06	---	---	---	---	254.74	---
29	---	---	---	---	---	---	---	254.82	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	254.72	---	---	---	---	---	254.66	---	---

WELL DESCRIPTIONS AND GROUND-WATER DATA

WATER RESOURCES DATA FOR FLORIDA, 1982
Volume 4: Northwest Florida

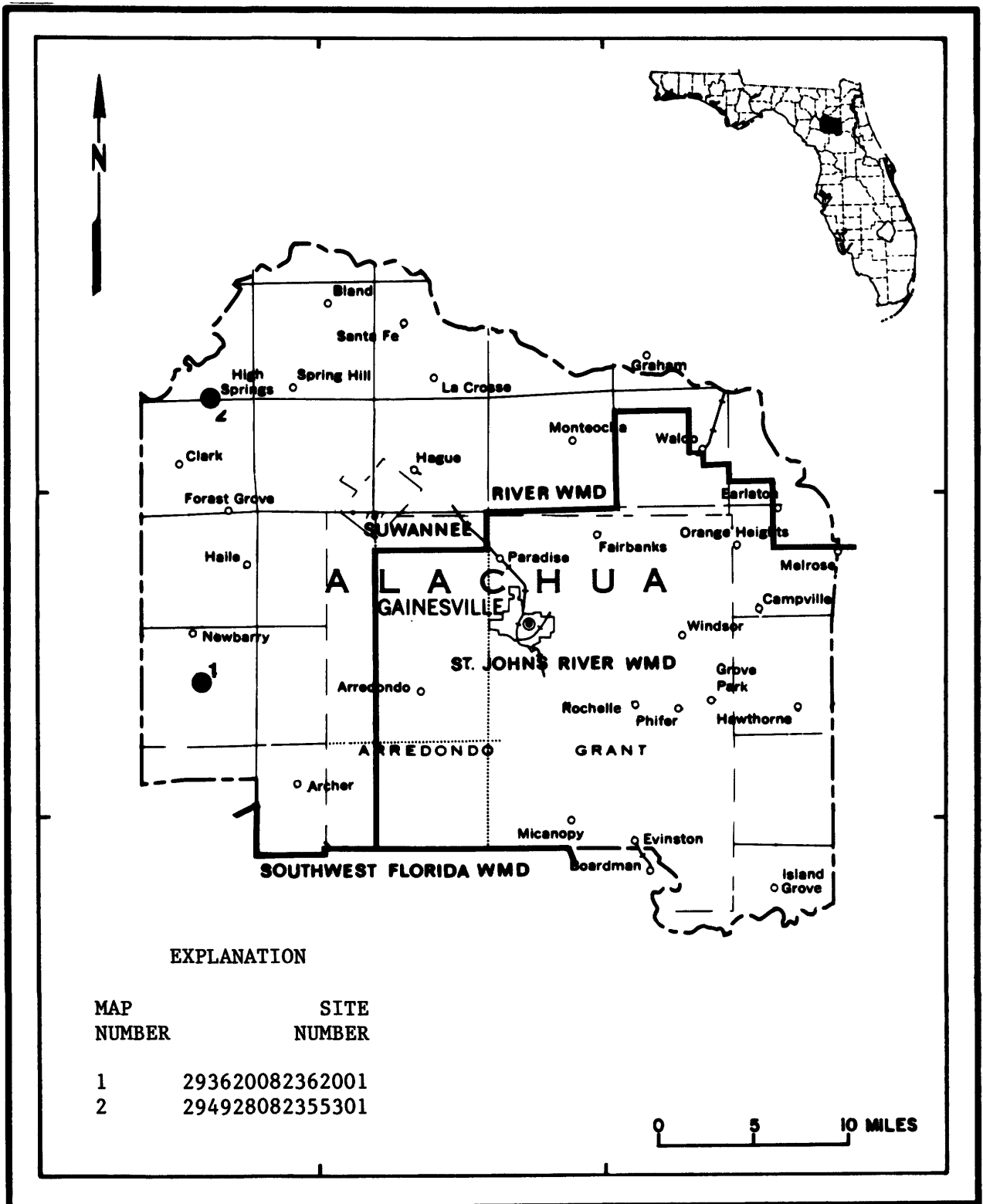


Figure 17. Location of wells in Alachua County

ALACHUA COUNTY

WELL NUMBER.--293620082362001. USGS Observation Well near Newberry, FL.

LOCATION.--Lat 29°36'20", long 82°36'20", in NW¼SW¼NW¼ sec.22, T.10 S., R.17 E., Hydrologic Unit 03110101, 3.0 mi (4.8 km) south of Newberry and 6.5 mi (10.5 km) north of Archer.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, test, artesian well, diameter 8 in (20 cm), depth 252 ft (77 m), cased to 136 ft (42 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 4.00 ft (1.22 m) above land-surface datum.

DATUM.--Land-surface datum is 72.27 ft (22.03 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Water levels for period June 2 to Aug. 4, were estimated from nearby well 294330082445001.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 54.63 ft (16.65 m) NGVD, Oct. 7, 1965; lowest, 38.00 ft (11.58 m) NGVD, Jan. 15, 1982.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	38.92	38.68	38.40	38.08	38.24	38.35	38.58	41.01	41.83	42.73	43.78	44.68
10	38.89	38.64	38.35	38.03	38.27	38.37	38.80	41.18	41.98	42.88	43.86	44.84
15	38.85	38.59	38.30	38.00	38.28	38.40	39.54	41.34	42.13	43.12	43.96	45.01
20	38.81	38.55	38.24	38.08	38.29	38.42	40.09	41.46	42.28	43.34	44.05	45.17
25	38.78	38.50	38.19	38.16	38.31	38.46	40.48	41.55	42.43	43.52	44.23	45.27
EOM	38.72	38.45	38.13	38.22	38.32	38.51	40.77	41.71	42.58	43.69	44.46	45.33
MEAN	38.84	38.59	38.28	38.09	38.28	38.41	39.56	41.32	42.15	43.16	44.02	44.99
MAX	38.95	38.71	38.44	38.22	38.32	38.51	40.77	41.71	42.58	43.69	44.46	45.33
MIN	38.72	38.45	38.13	38.00	38.22	38.33	38.52	40.83	41.73	42.61	43.71	44.51
WTR YR 1982	MEAN	40.48	MAX	45.33	SEP 30	MIN	38.00	JAN 15				

WELL NUMBER.--294928082355301. City of High Springs Well at High Springs, FL.

LOCATION.--Lat 29°49'28", long 82°35'53", in NE¼SW¼NE¼ sec.3, T.8 S., R.17 E., Hydrologic Unit 03110206, 200 ft (61 m) southwest of post office and 0.2 mi (0.3 km) south of City Hall at High Springs.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 10 in (25 cm), depth 300 ft (91 m), cased to 250 ft (76 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Bottom of 1½ in (3.81 cm) riser pipe, 1.00 ft (0.30 m) above land-surface datum.

DATUM.--Land-surface datum is 72.40 ft (22.07 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Water levels for periods Jan. 6 to Feb. 2, Feb. 15 to Apr. 22 and Aug. 25 to Sept. 30 were estimated from nearby well 294330082445001.

PERIOD OF RECORD.--June to September 1970 (bimonthly); September 1970 to September 1979; October 1979 to September 1980 (bimonthly); October 1980 to current year. Records prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 43.42 ft (13.23 m) NGVD, Sept. 17, 1964; lowest, 28.07 ft (8.56 m) NGVD, May 6, 1969.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	32.45	32.26	32.08	31.93	32.30	32.18	32.25	33.97	33.83	34.25	34.89	34.89
10	32.42	32.24	32.06	31.91	32.29	32.17	34.05	33.90	33.81	34.27	34.79	34.98
15	32.38	32.20	32.05	31.90	32.27	32.15	34.55	33.85	33.80	34.47	34.80	35.08
20	32.34	32.17	32.00	32.05	32.24	32.17	34.50	33.81	33.87	34.74	34.78	35.04
25	32.32	32.14	31.98	32.20	32.21	32.18	34.24	33.83	33.97	34.91	34.83	34.94
EOM	32.26	32.12	32.04	32.30	32.20	32.20	34.07	33.82	34.09	34.96	34.86	34.92
MEAN	32.38	32.19	32.03	32.03	32.26	32.18	33.88	33.87	33.89	34.56	34.84	34.97
MAX	32.49	32.26	32.14	32.30	32.35	32.20	34.60	34.04	34.17	35.03	34.95	35.10
MIN	32.26	32.11	31.94	31.90	32.20	32.15	32.21	33.78	33.79	34.11	34.77	34.87
WTR YR 1982	MEAN	33.26	MAX	35.10	SEP 16 AND OTHERS	MIN	31.90	JAN 13 AND OTHERS				

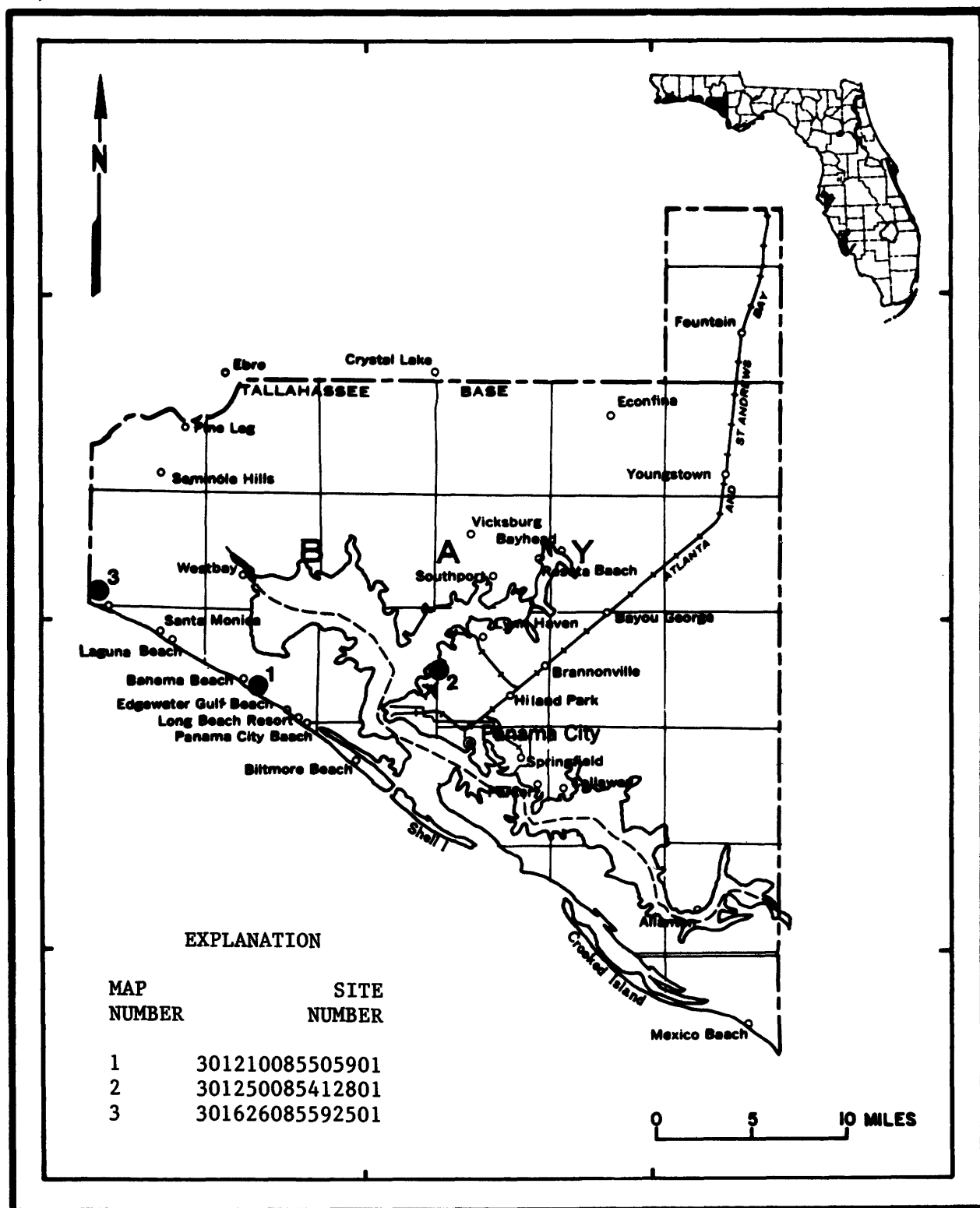


Figure 18. Location of wells in Bay County

BAY COUNTY

WELL NUMBER.--301210085505901. West Panama City Beach Well at West Panama City Beach, FL.

LOCATION.--Lat 30°12'10", long 85°50'59", in SW¼NE¼NE¼ sec.28, T.3 S., R.16 W., Hydrologic Unit 03140101, about 100 ft (30.5 m) west of State Highway 30J and 0.2 mi (0.3 km) north of U.S. Highway 98 at Panama City Beach.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 6 in (15 cm), depth 590 ft (180 m), cased to 306 ft (93 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of extended casing, 5.34 ft (1.63 m) above land-surface datum. Prior to July 1965 water-level recorder at same site and datum.

DATUM.--Land-surface datum is 28.52 ft (8.69 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--February 1962 to July 1965; January 1966 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.99 ft (2.74 m) NGVD, May 14, 1973; lowest measured, -14.67 ft (-4.47 m) NGVD, Sept. 1, 1970.

ELEVATION, IN FEET NGVD, OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 26...	1100	2.52	MAY 06...	1125	3.79
JAN 21...	1005	1.57	JUL 29...	1130	2.59

WELL NUMBER.--301250085412801. Panama City Airport Authority Well, near Panama City, FL.

LOCATION.--Lat 30°12'50", long 85°41'28", in NW¼SW¼NW¼ sec.19, T.3 S., R.14 W., Hydrologic Unit 03140101, 200 ft (61 m) north of Frankford Ave., 1.4 mi (2.3 km) north of State Highway 390 and 3.6 mi (5.8 km) northwest of Panama City.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 6 in (15 cm), depth 345 ft (105 m), cased to 326 ft (99 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 1.50 ft (0.46 m) above land-surface datum. Prior to September 1965 water-level recorder at same site and datum.

DATUM.--Land-surface datum is 4.03 ft (1.23 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--February 1962 to September 1965; March 1966 to December 1968 (monthly); January 1969 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.84 ft (1.48 m) NGVD, Mar. 6, 1969; lowest measured, -6.88 ft (-2.10 m) NGVD, June 9, 1975.

ELEVATION, IN FEET NGVD, OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 26...	1040	-2.75	MAR 22...	1050	0.89
JAN 21...	1030	0.92	MAY 06...	1200	-0.16

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

BAY COUNTY

WELL NUMBER.--301626085592501. Avondale Mills Well near Panama City, FL.

LOCATION.--Lat 30°16'26", long 85°59'25", in NW¼NE¼SW¼ sec.31, T.2 S., R.17 W., Hydrologic Unit 03140101, at Camp Helen, 0.4 mi (0.6 km) east of Walton - Bay county line and 6.1 mi (9.8 km) northwest of Panama City Beach.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, public-supply, artesian well, diameter 8 in (20 cm), depth 482 ft (147 m), casing length unknown.

INSTRUMENTATION.--Tape measured. Measuring point: Top of airline hole, 1.95 ft (0.59 m) above land-surface datum.

DATUM.--Land-surface datum is 22.13 ft (6.74 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--December 1961 to December 1963 (monthly); October 1968 to September 1970 (bimonthly); July 1974 (annually); March 1975 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.07 ft (3.98 m) NGVD, Feb. 19, 1963; lowest measured, 2.51 ft (0.76 m) NGVD, September 27, 1978.

ELEVATION, IN FEET NGVD, OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV			MAY		
26...	1130	7.33	06...	1110	5.68
JAN			JUL		
21...	0945	4.46	29...	1110	5.38
MAR					
22...	1200	6.48			

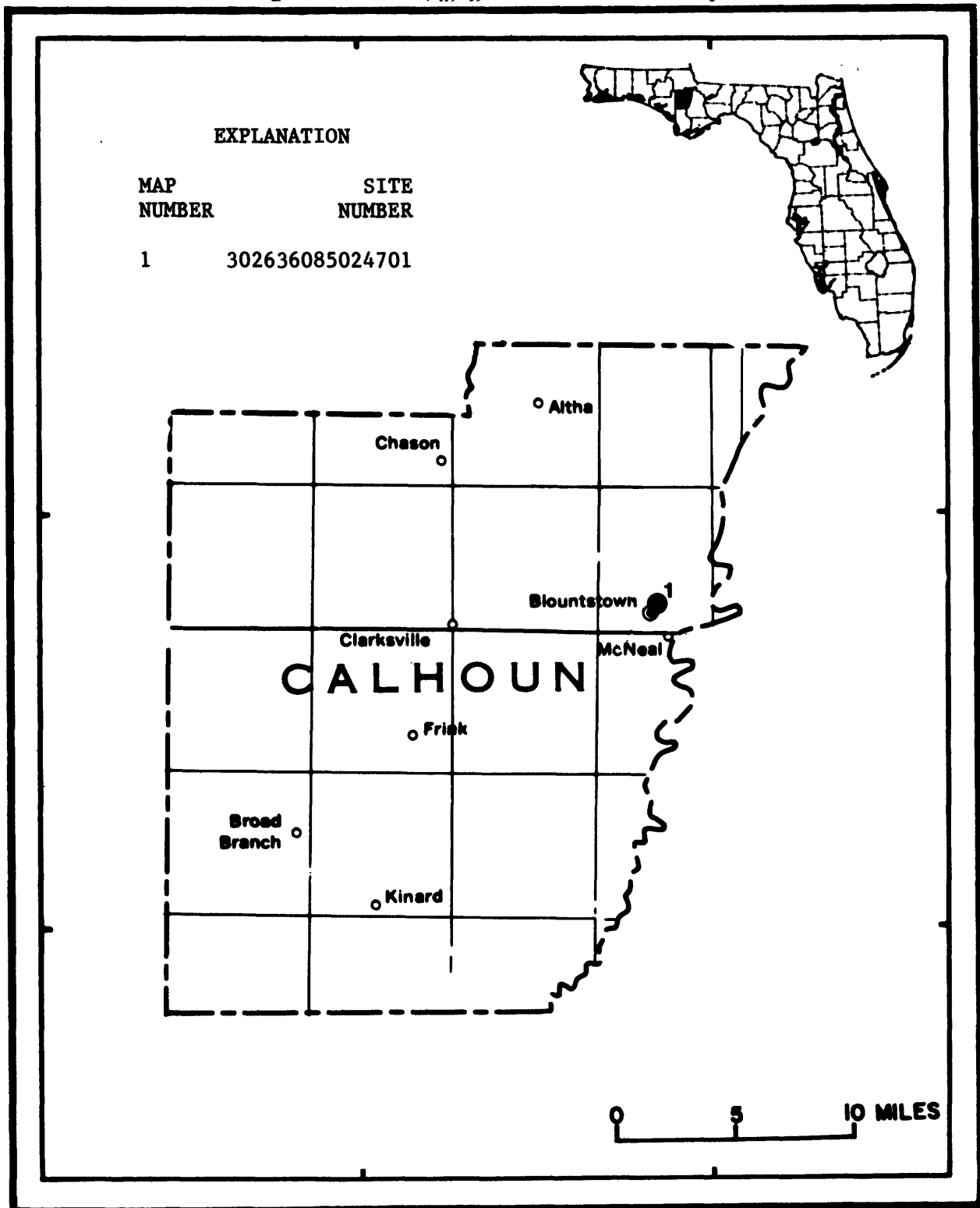


Figure 19. Location of wells in Calhoun County

CALHOUN COUNTY

WELL NUMBER.--302636085024701. City of Blountstown Well at Blountstown, FL.

LOCATION.--Lat 30°26'36", long 85°02'47", in SE¼NW¼NW¼ sec.33, T.1 N., R.8 W., Hydrologic Unit 03130011, at City Hall Building in Blountstown.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, public-supply, artesian well, diameter 6 in (15 cm), depth 212 ft (65 m), cased to 36 ft (11 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of hole in cap at land-surface datum.

DATUM.--Land-surface datum is 58.94 ft (17.96 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--June to November 1961 (monthly); January 1962 to July 1964 (bimonthly); January 1965 to June 1977 (semiannually); November 1977 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 58.54 ft (17.84 m) NGVD, Jan. 14, 1966; lowest measured, 45.37 ft (13.83 m) NGVD, July 22, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV			MAY		
13...	1410	49.61	27...	1335	51.16
JAN			JUL		
13...	1350	48.37	29...	1300	50.98
APR					
05...	1400	52.28			

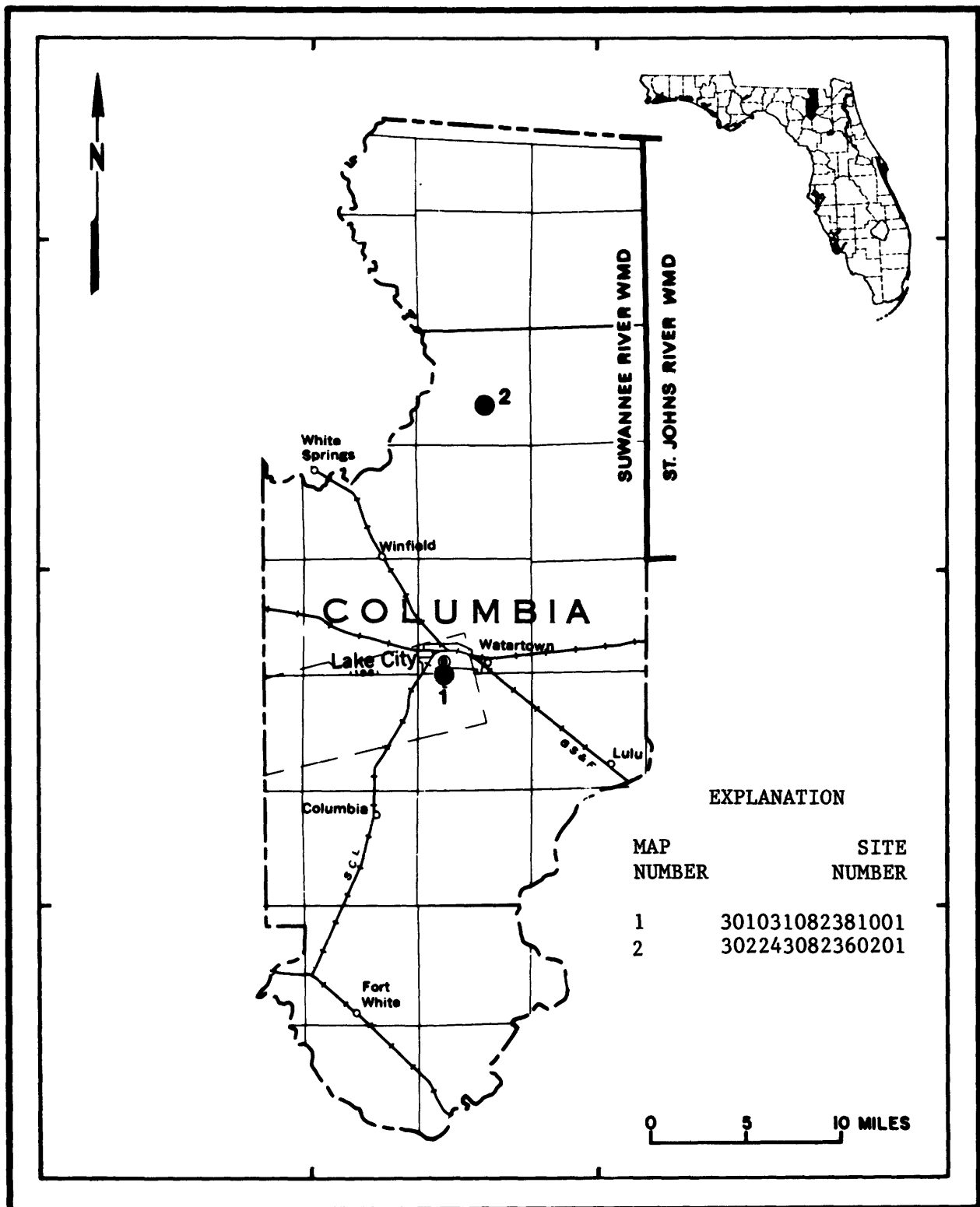


Figure 20. Location of wells in Columbia County

COLUMBIA COUNTY

WELL NUMBER.--301031082381001. Local Number Columbia 9. City of Lake City Well at Lake City, FL.

LOCATION.--Lat 30°10'31", long 82°38'10", in SE¼NE¼NW¼ sec.5, T.4 S., R.17 E., Hydrologic Unit 03110206, 0.1 mi (0.2 km) east of U.S. Highway 441 and 1.0 mi (1.6 km) south of intersection of U.S. Highway 441 and U.S. Highway 90 at Lake City.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 12 in (30 cm), depth 836 ft (255 m), cased to 680 ft (207 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top edge shelter floor, 0.97 ft (0.30 m) above land-surface datum.

DATUM.--Land-surface datum is 143.64 ft (43.78 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--July 1942 (annually); June 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 64.11 ft (19.54 m) NGVD, June 4, 1948; lowest, 46.14 ft (14.06 m) NGVD, Jan. 5, 1982.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	46.83	46.69	46.31	46.14	46.26	46.62	46.90	47.36	47.78	47.65	47.97	48.54
10	46.85	46.60	46.42	46.25	46.42	46.49	47.04	47.46	47.64	47.61	48.01	48.64
15	46.73	46.61	46.58	46.19	46.37	46.60	47.13	47.43	47.60	47.60	48.26	48.72
20	46.57	46.60	46.17	46.22	46.54	46.66	47.21	47.57	47.68	47.74	48.21	48.77
25	46.79	46.47	46.44	46.34	46.43	46.70	47.36	47.63	47.62	47.71	48.43	48.89
EOM	46.54	46.51	46.39	46.39	46.44	46.70	47.32	47.74	47.68	47.86	48.41	48.80
MEAN	46.76	46.55	46.38	46.27	46.41	46.61	47.11	47.51	47.67	47.68	48.21	48.70
MAX	47.04	46.71	46.58	46.64	46.67	46.83	47.39	47.74	47.80	47.86	48.48	48.95
MIN	46.49	46.39	46.17	46.14	46.22	46.35	46.73	47.31	47.57	47.58	47.91	48.50
WTR YR 1982	MEAN	47.16	MAX	48.95	SEP 26	MIN	46.14	JAN 5	AND OTHERS			

WELL NUMBER.--302243082360201. Local Number ONF No. 1 Floridan. USGS Observation Well near Benton, FL.

LOCATION.--Lat 30°22'43", long 82°36'02", NE¼NW¼NW¼ sec.11, T.1 S., R.17 E., Hydrologic Unit 03110201, 0.4 mi (0.6 km) south of intersection of jeep trail and U.S. Forest Road 285 in Osceola National Forest, 1.6 mi (2.6 km) east of intersection of U.S. Forest Road 285 and U.S. Highway 441, and 12 mi (19 km) north of Lake City.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 8 in (20 cm), depth 228 ft (69 m), cased to 194 ft (59 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top edge of shelter floor, 2.4 ft (0.73 m) above land-surface datum.

DATUM.--Land-surface datum is 119.66 ft (36.47 m) National Geodetic Vertical Datum of 1929 (levels by L.L. Lee and Associates).

REMARKS.--Water levels for periods Oct. 1 to 15, July 20 to Aug. 8, and Aug. 25 to Sept. 29 were estimated on basis Suwannee River near Suwannee Springs (02315550) and trends of nearby wells.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 61.92 ft (18.87 m) NGVD, Dec. 26, 1976; lowest, 49.33 ft (15.04 m) NGVD, Aug. 22, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	49.46	49.76	49.75	50.10	51.39	52.37	52.87	53.33	52.24	52.27	54.56	52.96
10	49.51	49.80	49.73	50.53	51.56	52.87	52.95	53.36	51.93	52.39	54.86	53.06
15	49.46	50.09	49.86	51.13	52.00	52.81	54.74	53.03	52.19	52.52	54.33	54.46
20	49.48	50.14	49.52	51.46	52.66	52.51	54.37	53.07	51.96	52.66	53.89	53.86
25	49.67	49.92	49.99	51.53	52.60	52.91	54.01	52.55	52.01	54.16	54.06	53.76
EOM	49.50	49.89	49.94	51.66	52.48	53.02	53.46	52.61	52.45	55.46	53.46	53.22
MEAN	49.56	49.88	49.77	50.98	52.02	52.72	53.70	53.01	52.15	53.10	54.33	53.54
MAX	49.76	50.16	49.99	51.66	52.79	53.02	54.74	53.64	52.64	55.66	55.26	54.46
MIN	49.41	49.52	49.52	49.93	51.37	52.37	52.60	52.39	51.90	52.19	53.46	52.56
WTR YR 1982	MEAN	52.06	MAX	55.66	JUL 30	MIN	49.41	OCT 12				

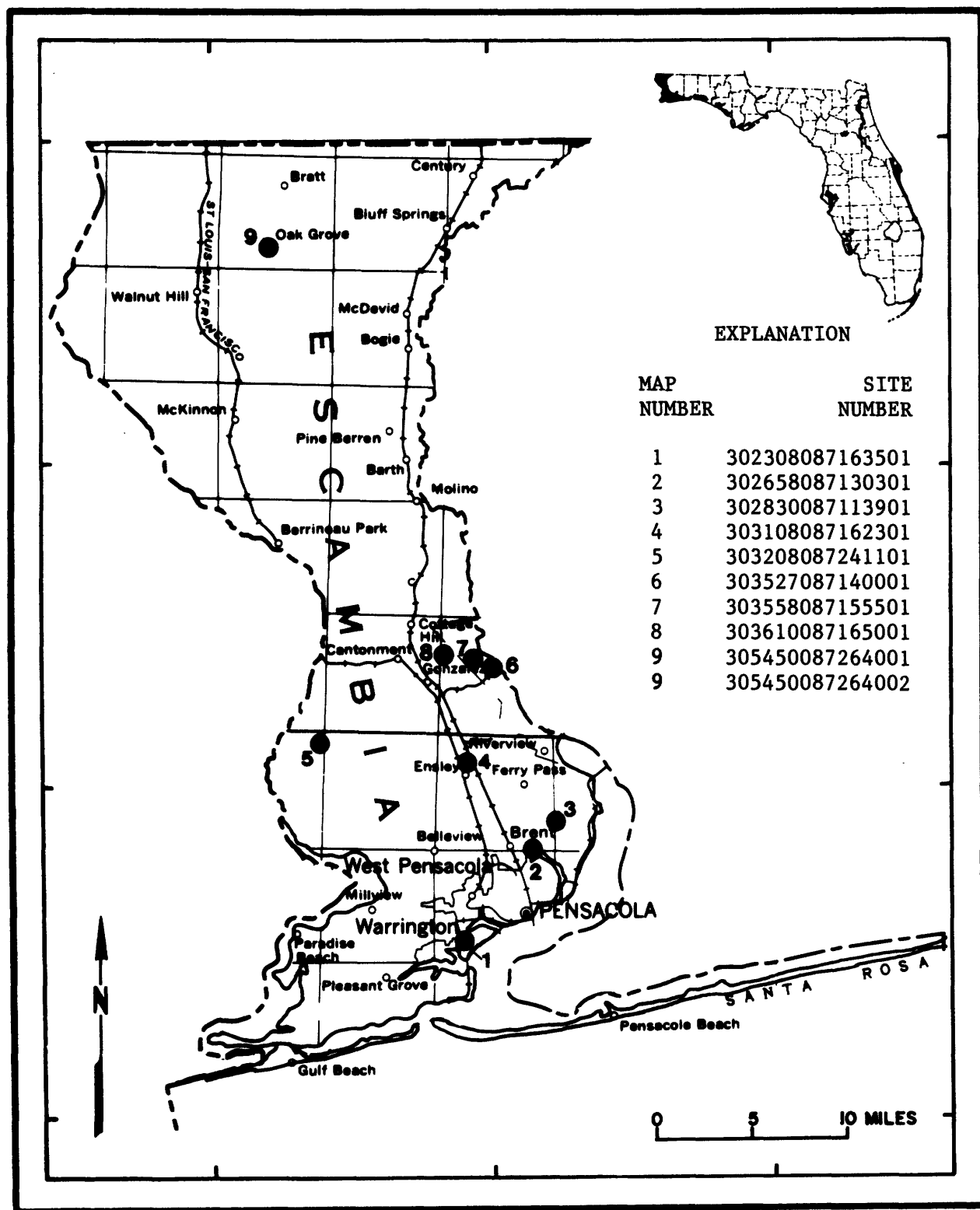


Figure 21. Location of wells in Escambia County

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

ESCAMBIA COUNTY

WELL NUMBER.--302308087163501. Local number 39. Irving B. Hanna Well at Warrington, FL.

LOCATION.--Lat 30°23'08", long 87°16'35", in land grant 51, T.2 S., R.30 W., Hydrologic Unit 03140105, 45 ft (14 m) north of East Winthrop Avenue and 140 ft (43 m) east of First Street at Warrington.

AQUIFER.--Northwestern Florida sand-and-gravel aquifer of the Tertiary System, Geologic Unit 120 NFSG.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 3 in (8 cm), depth 244 ft (74 m), cased to 92 ft (28 m), screened 92 to 99 ft (28 to 30 m), 156 to 170 ft (48 to 62 m), and 232 to 244 ft (71 to 74 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of coupling, 1.0 ft (0.3 m) above land-surface datum.

DATUM.--Land-surface datum is 9.91 ft (3.02 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--June 1940 to October 1962 (weekly); October 1962 to current year (monthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.05 ft (1.84 m) NGVD, Aug. 13, 1940; lowest measured, -8.35 ft (-2.54 m) NGVD, Aug. 5, 1968.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
12...	1145	-1.17	10...	1305	0.29
DEC			JUN		
07...	1345	0.29	07...	1210	-0.88
JAN			JUL		
19...	0920	0.81	14...	0940	0.36
FEB			AUG		
16...	1050	2.35	10...	1010	1.05
MAR			SEP		
08...	1155	2.31	16...	1020	-0.53
APR					
06...	1245	-0.64			
12...	1200	-0.06			

WELL NUMBER.--302658087130301. Local number 026-713-5. USGS Observation Well at Pensacola, FL.

AQUIFER.--Northwestern Florida sand-and-gravel aquifer of the Tertiary System, Geologic Unit 120 NFSG.

INSTRUMENTATION.--Tape measured. Measuring point: Top of plug, 2.71 ft (0.83 m) above land-surface datum. Prior to July 25, 1962 water-level recorder at same site and datum.

DATUM.--Land-surface datum is 89.41 ft (27.27 m) National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.69 ft (10.88 m) NGVD, Oct. 29, 1979; lowest measured, 19.33 ft (5.89 m) NGVD, Feb. 19, 1973.

[illegible]

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

ESCAMBIA COUNTY

WELL NUMBER.--302830087113901. Pensacola Airport Well at Pensacola, FL.

LOCATION.--Lat 30°28'30", long 87°11'39", in NW¼NE¼SW¼ sec.*, T.1 S., R.29 W., Hydrologic Unit 03140105, 160 ft (49 m) southwest of Pensacola Airport terminal building at Pensacola.

AQUIFER.--Northwestern Florida sand-and-gravel aquifer of the Tertiary System, 120 NFSG.

WELL CHARACTERISTICS.--Drilled, unused, irrigation well, diameter 10 in (25 cm), depth 210 ft (64 m), cased 163 ft (50 m), screened from 163 to 210 ft (50 to 64 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 1.0 ft (0.30 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 110 ft (34 m), from topographic map.

REMARKS.--*Land is not sectionized in this area.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 33.01 ft (10.06 m) NGVD, May 25, 1980; lowest, 15.70 ft (4.79 m) NGVD, Jan. 17, 1982.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.47	16.22	16.17	15.92	15.94	16.97	17.89	18.05	17.69	17.12	17.53	18.47
10	16.41	16.20	16.14	15.79	16.22	17.19	17.93	18.16	17.52	17.13	17.67	18.64
15	16.30	16.23	16.15	15.71	16.50	17.22	18.07	18.05	17.44	17.30	17.93	18.60
20	16.21	16.16	16.12	15.72	16.69	17.25	18.12	17.86	17.21	17.25	18.06	18.64
25	16.28	16.14	16.18	15.85	16.73	17.37	18.40	17.82	17.04	17.23	18.25	18.63
BOM	16.21	16.19	16.15	15.89	16.74	17.60	18.20	17.77	17.07	17.29	18.36	18.56
MEAN	16.33	16.18	16.16	15.84	16.39	17.20	18.05	17.98	17.39	17.19	17.93	18.59
MAX	16.60	16.24	16.28	16.01	16.84	17.60	18.40	18.19	17.80	17.34	18.38	18.67
MIN	16.18	16.09	15.90	15.70	15.76	16.85	17.64	17.74	17.04	17.01	17.34	18.42
WTR YR 1982	MEAN	17.10	MAX	18.67	SEP 22 AND OTHERS	MIN	15.70	JAN 17				

WELL NUMBER.--3031080871623Q1. Local number 46. USGS Observation Well at Ensley, FL.

AQUIFER.--Northwestern Florida sand-and-gravel aquifer of the Tertiary System, Geologic Unit 120 NFSG.

INSTRUMENTATION.--Tape measured. Measuring point: Top of flange cover, 1.10 ft (0.34 m) above land-surface datum. June 8, 1940 to May 15, 1955 water-level recorder at same site and datum.

DATUM.--Land-surface datum is 131.52 ft (40.09 m) National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 75.07 ft (22.88 m) NGVD, Sept. 23, 1948; lowest measured, 48.27 ft (14.71 m) NGVD, Nov. 27, 1972.

[illegible]

WELL DESCRIPTIONS AND WATER LEVELS

ESCAMBIA COUNTY

WELL NUMBER.--303208087241101. Local number 032-724-1. USGS Observation Well near Ensley, FL.

LOCATION.--Lat 30°32'08", long 87°24'11", in NW¼NW¼NE¼ sec.12, T.1 S., R.32 W., Hydrologic Unit 03140106, 0.3 mi (0.5 km) east of intersection of U.S. Highway 90 and U.S. Highway 90 Alternate, 2.8 mi (4.5 km) east of Perdido River, and 8 mi (13 km) west of Ensley.

AQUIFER.--Northwestern Florida sand-and-gravel aquifer of the Tertiary System, Geologic Unit 120 NFSG.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in (10 cm), depth 170 ft (52 m), cased to 165 ft (50 m), screened from 165 to 170 ft (50 to 52 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of plug, 2.9 ft (0.9 m) above land-surface datum.

DATUM.--Land-surface datum is 123.43 ft (37.62 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1976 land-surface datum was considered to be 121.53 ft (37.04 m) National Geodetic Vertical Datum of 1929. See PERIOD OF RECORD.

PERIOD OF RECORD.--July 1958 to current year (monthly). Records of water levels prior to January 1974 are available in files of the Geological Survey. The figures of water levels as elevation in feet, National Geodetic Vertical Datum prior to October 1976 are in error. Revised records are in the files of the U.S. Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.83 ft (10.62 m) NGVD, July 8, 1959; lowest measured, 28.30 ft (8.62 m) NGVD, Dec. 7, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
12...	0905	29.00	06...	0950	30.36
NOV			12...	0910	29.40
09...	0920	29.26	MAY		
DEC			10...	0925	29.41
07...	1100	28.30	JUN		
JAN			07...	0905	28.53
16...	0940	29.17	JUL		
FEB			12...	1000	29.12
18...	0930	30.31	AUG		
MAR			09...	1015	29.03
08...	0920	29.31			

WELL NUMBER.--303527087140001. Local number 83. Monsanto Company Well near Cantonment, FL.

LOCATION.--Lat 30°35'27", long 87°14'00", in land grant 30, T.1 N., R.30 W., Hydrologic Unit 03140305, on south bank of Escambia River at Monsanto Plant, 3.5 mi (5.6 km) northeast of U.S. Highway 29, and 4.9 mi (7.9 km) southeast of Cantonment.

AQUIFER.--Northwestern Florida sand-and-gravel aquifer of the Tertiary System, Geologic Unit 120 NFSG.

WELL CHARACTERISTICS.--Drilled, unused, artesian test well, diameter 4 in (10 cm), depth 293 ft (89 m), cased to 230 ft (70 m), screened from 230 to 240 ft (70 to 73 m) and 282 to 292 ft (86 to 89 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 2.90 ft (0.88 m) above land-surface datum. Prior to March 4, 1965 water-level recorder at same site and datum.

DATUM.--Land-surface datum is 37.5 ft (11.4 m) National Geodetic Vertical Datum of 1929 (levels by Monsanto Company).

PERIOD OF RECORD.--July 1954 to March 1965; March 1965 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.34 ft (1.63 m) NGVD, May 21, 1980; lowest measured, -11.45 ft (-3.49 m) NGVD, Jan. 17, 1973.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV			MAY		
20...	1340	2.91	26...	1345	3.32
JAN			JUL		
19...	1535	2.41	27...	1310	2.03
MAR			SEP		
25...	1120	3.79	14...	1510	3.57

ESCAMBIA COUNTY

WELL NUMBER.--303558087155501. Local Number 73. Monsanto Plant Well near Cantonment, FL.

LOCATION.--Lat 30°35'58", long 87°15'55", in land grant 30, T.1 N., R.30 W., Hydrologic Unit 03140305, on south bank of Escambia River at Monsanto Plant, 3.1 mi (5.0 km) northeast of U.S. Highway 29, and 4.4 mi (7.1 km) southeast of Cantonment.

AQUIFER.--Northwestern Florida sand-and-gravel aquifer of the Tertiary System, Geologic Unit 120 NFSG.

WELL CHARACTERISTICS.--Drilled, test, artesian well, diameter 4 to 2.5 in (10 to 6.4 cm), depth 306 ft (93 m), cased to 198 ft (60 m), screened from 198 to 208 ft (60 to 63 m), 294 to 304 ft (90 to 93 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of casing, 3.00 ft (0.91 m) above land-surface datum.

DATUM.--Land-surface datum is 51.89 ft (15.82 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--November 1951 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 15.49 ft (4.72 m) NGVD, Nov. 10, 1951; lowest, -13.51 ft (-4.19 m) NGVD, July 12, 1974.

ELEVATION, IN FEET NGVD, OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.74	3.55	3.52	4.14	3.56	4.41	4.18	4.11	3.32	3.32	3.78	3.76
10	2.95	3.48	3.65	3.44	4.14	3.93	4.40	3.94	3.42	4.06	3.09	4.09
15	2.62	3.62	3.93	2.44	4.60	4.32	4.44	3.21	3.27	3.81	3.48	4.00
20	2.39	3.48	2.32	3.25	4.23	4.38	4.35	4.19	3.36	3.63	3.89	4.15
25	2.98	3.42	3.58	3.45	3.83	4.44	4.89	3.72	3.70	3.68	3.85	3.92
EOM	3.40	3.58	5.42	3.46	4.11	4.21	4.35	3.42	3.81	2.95	3.49	3.84
MEAN	2.90	3.46	3.86	3.65	4.07	4.38	4.50	3.81	3.45	3.59	3.63	3.96
MAX	3.44	3.71	5.42	5.58	4.71	5.65	5.67	4.53	3.94	4.13	3.92	4.31
MIN	2.25	3.20	2.32	1.93	3.28	3.09	3.94	3.08	3.17	2.95	3.09	3.54
WTR YR 1982	MEAN	3.77	MAX	5.67	APR 23	MIN	1.93	JAN 12				

WELL NUMBER.--303610087165001. Local Number 74. Monsanto Company well near Cantonment, FL.

LOCATION.--Lat 30°36'10", long 87°16'50", in land grant 30, T.1 N., R.30 W., Hydrologic Unit 03140305, 1.3 mi (2.1 km) north of paved road to Monsanto Plant, 1.6 mi (2.6 km) east of U.S. Highway 29, and 3.4 mi (5.5 km) southeast of Cantonment.

AQUIFER.--Northwestern Florida sand-and-gravel aquifer of the Tertiary System, Geologic Unit 120 NFSG.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 to 2½ in (10 to 6.4 cm), depth 352 ft (107 m), cased to 260 ft (79 m), screened from 260 to 270 ft (79 to 82 m) and 340 to 350 ft (104 to 107 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of casing, 3.00 ft (0.91 m) above land-surface datum.

DATUM.--Land-surface datum is 97.39 ft (29.68 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--November 1951 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 23.42 ft (7.14 m) NGVD, Nov. 10, 1951; lowest, -2.61 ft (-0.80 m) NGVD, Jan. 22, 1969.

ELEVATION, IN FEET NGVD, OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.86	9.15	9.04	9.99	9.20	10.05	10.33	9.90	9.23	8.93	9.06	9.35
10	8.87	9.18	9.13	9.37	9.63	9.54	10.34	9.74	9.23	9.27	8.72	8.84
15	8.65	9.13	9.70	8.48	9.85	10.09	10.28	9.87	9.11	9.22	9.09	8.74
20	8.58	9.05	8.99	8.70	9.84	10.05	10.16	10.15	9.21	9.16	9.42	8.85
25	8.82	8.91	9.30	8.95	9.50	10.05	10.54	9.75	9.24	9.32	9.41	8.61
EOM	9.01	9.04	10.51	8.95	9.62	10.11	10.02	9.27	9.35	8.72	9.10	8.48
MEAN	8.81	9.08	9.41	9.19	9.60	10.00	10.28	9.86	9.20	9.14	9.14	8.84
MAX	9.06	9.20	10.51	10.51	10.06	10.49	10.59	10.15	9.38	9.39	9.42	9.36
MIN	8.42	8.90	8.87	8.37	8.95	9.26	10.02	9.16	8.92	8.72	8.72	8.47
WTR YR 1982	MEAN	9.38	MAX	10.59	APR 24	MIN	8.37	JAN 18				

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

ESCAMBIA COUNTY

WELL NUMBER.--305450087264001. Local Number 054-726-1. U.S. Geological Survey Observation Well at Oak Grove, FL.

LOCATION.--Lat 30°54'50", long 87°26'40", in NE¼NW¼NE¼ sec.33, T.5 N., R.32 W., Hydrologic Unit 03140305, 36 ft (11.0 m) west of State Highway 99, 700 ft (213 m) south of intersection of State Highways 99 and 164 at Oak Grove.

AQUIFER.--Northwestern Florida sand-and-gravel aquifer of the Tertiary System, Geologic Unit 120 NFSG.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in (10 cm), depth 206 ft (63 m), cased to 201 ft (61 m), screened from 201 to 206 ft (61 to 63 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of coupling, 3.25 ft (0.99 m) above land-surface datum. Prior to October 25, 1962 water-level recorder at same site and datum.

DATUM.--Land-surface datum is 259.27 ft (79.02 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--May 1959 to October 1962; November 1962 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 176.54 ft (53.81 m) NGVD, July 15, 1980; lowest measured, 166.00 ft (50.60 m) NGVD, Mar. 5, 1969.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 20...	1450	170.49	MAY 12...	1000	169.83
JAN 05...	1420	170.07	SEP 14...	1255	169.34
MAR 25...	0945	169.92			

WELL NUMBER.--305450087264002. Local Number 054-726-2. U.S. Geological Survey Observation Well at Oak Grove, FL.

LOCATION.--Lat 30°54'50", long 87°26'40", in NE¼NW¼NE¼ sec.33, T.5 N., R.32 W., Hydrologic Unit 03140305, 36 ft (11 m) west of State Highway 99, 700 ft (213 m) south of intersection of State Highways 99 and 164 at Oak Grove.

AQUIFER.--Nonartesian sand aquifer of the Tertiary System, Geologic Unit 120 NRSD.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 4 in (10 cm), depth 107 ft (33 m), cased to 102 ft (31 m), screened from 102 to 107 ft (31 to 33 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of nipple, 3.25 ft (0.99 m) above land-surface datum.

DATUM.--Land-surface datum is 259.21 ft (79.01 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--May 1959 to November 1962 (monthly); January 1963 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 194.71 ft (59.35 m) NGVD, July 15, 1980; lowest measured, 179.64 ft (54.75 m) NGVD, Mar. 5, 1969.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 20...	1455	185.89	MAY 12...	0958	184.76
JAN 05...	1415	185.12	SEP 14...	1300	184.15
MAR 25...	0950	184.26			

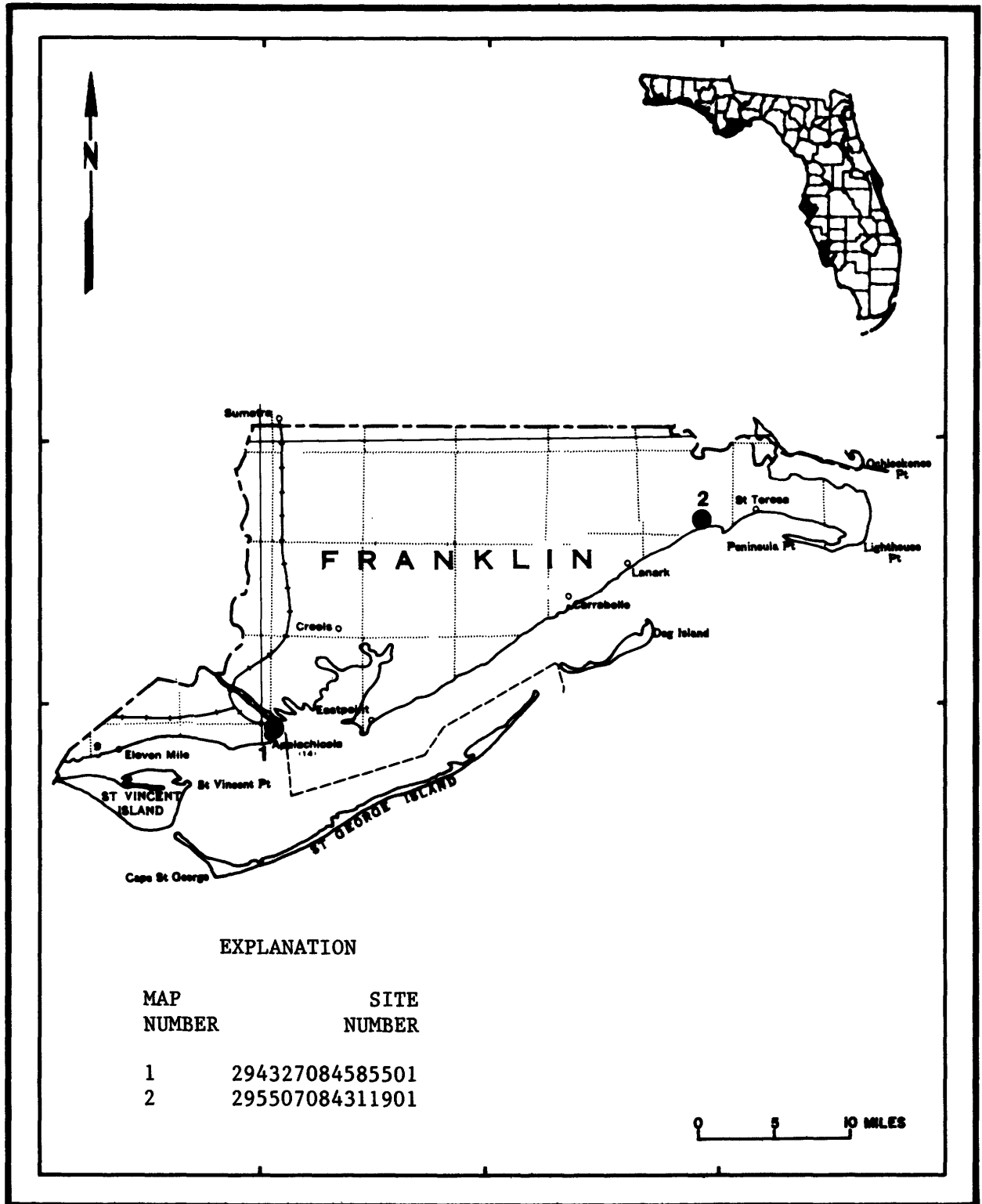


Figure 22. Location of wells in Franklin County

FRANKLIN COUNTY

WELL NUMBER.--294327084585501. Local number 31. City of Apalachicola Well at Apalachicola, FL.

LOCATION.--Lat 29°43'27", long 84°58'55", in NW¼NE¼SW¼ Sec.6, T.9 S., R.7 W., Hydrologic Unit 03130011, south of west approach to Gorrie Bridge at Apalachicola.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 8 in (20 cm), depth and casing length unknown.

INSTRUMENTATION.--Tape measured. Measuring point: Top of 1 in (2.5 cm) iron pipe, 1.30 ft (0.40 m) above land-surface datum. Prior to July 1978, top of vitrified clay pipe, 1.00 ft (0.30 m) above land-surface datum.

DATUM.--Land-surface datum is 5.80 ft (1.77 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD ELEVATIONS.--September 1949 to current year (bimonthly). Records of water levels prior to January 1974 are available in the files of the Geological Survey.

PERIOD OF RECORD WATER QUALITY.--July 1961 (annually); January 1962 to May 1967 (semi-annually); January 1968 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.75 ft (2.97 m) NGVD, Mar. 20, May 1, 1950; lowest measured, 7.02 ft (2.14 m) NGVD, July 5, 1968.

ELEVATION, CHLORIDE, CONDUCTANCE AND TEMPERATURE DATA OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 13...	1155	--	3100	--	780	AUG 12...	1125	--	3150	--	660
JAN 13...	0930	--	3400	--	800	SEP 03...	1245	--	3250	--	700
APR 05...	1120	--	3150	--	760						

WELL NUMBER.--295507084311901. St. James. St. Joe Paper Company Well near Lanark, FL.

LOCATION.--Lat 29°55'07", long 84°31'19", in NW¼SW¼NE¼ sec.34, T.6 S., R.3 W., Hydrologic Unit 03130013, 500 ft (152 m) northwest of intersection of U.S. Highway 98 and State Highway 377, 10 miles (16 km) northeast of Carrabelle.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 10 in (25 cm), depth 174 ft (53 m), cased to 80 ft (24 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of shelter floor, 1.0 ft (0.3 m) above land-surface datum. Prior to September 1980 water-level recorder at same site and datum.

DATUM.--Land-surface datum is 32.09 ft (9.78 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1977 altitude of land-surface datum was considered to be 30 ft (9.1 m), from topographic map.

PERIOD OF RECORD.--September 1976 to September 1980. October 1980 to current year (bimonthly). The figures of water levels as elevation in feet, National Geodetic Vertical Datum prior to Oct. 1977 are in error. Revised records are in files of the U.S. Geological Survey. See DATUM.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 10.88 ft (3.32 m) NGVD, Apr. 25, 1979; lowest, 8.37 ft (2.55 m) NGVD, Dec. 10, 1977.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT 21...	1050	9.46	MAY 13...	1035	9.76
NOV 16...	1040	9.59	JUL 23...	1120	9.73
JAN 19...	1235	9.22	SEP 23...	0955	9.80
MAR 26...	1205	9.54			

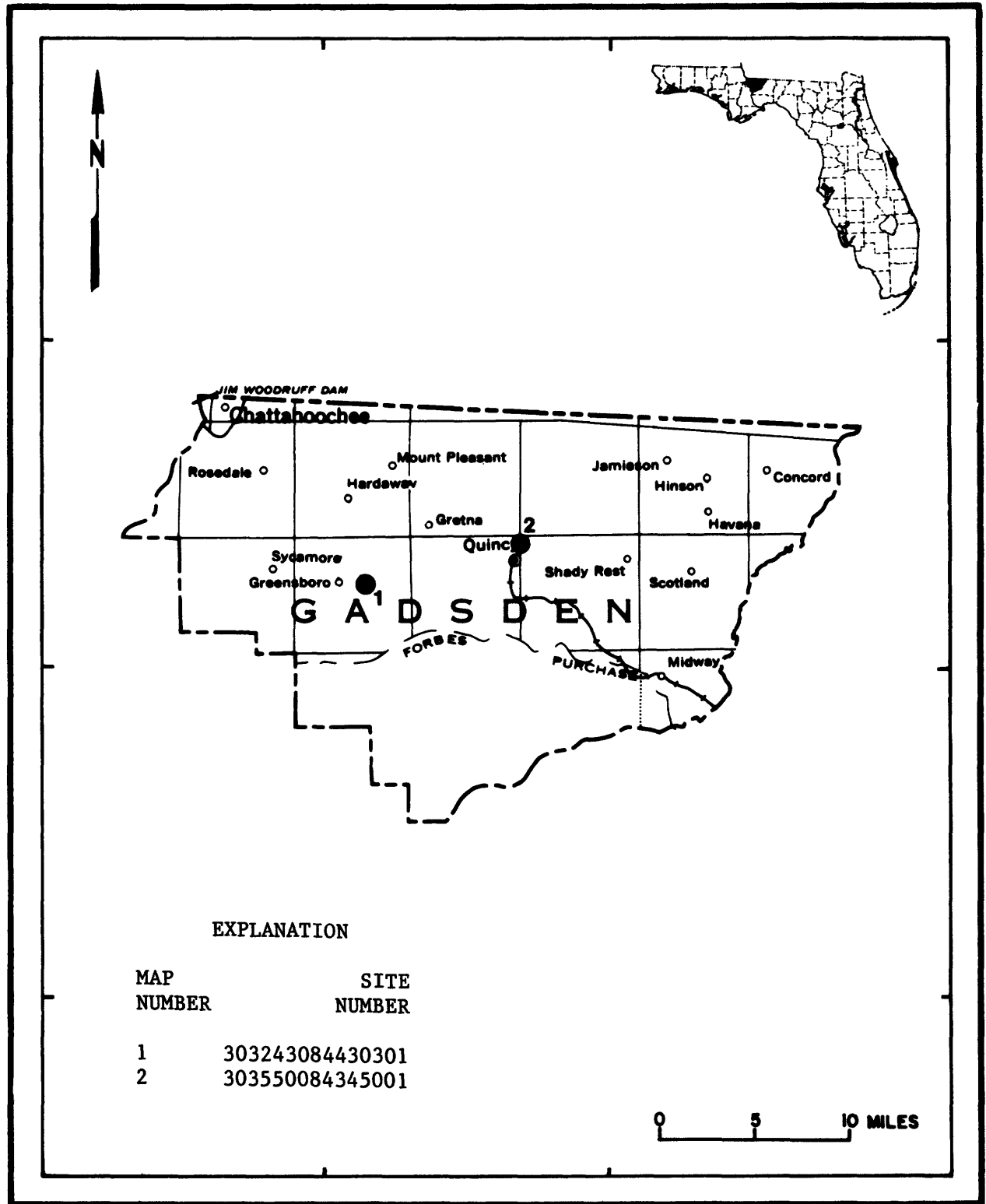


Figure 23. Location of wells in Gadsden County

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

GADSDEN COUNTY

WELL NUMBER.--303243084430301. Franklin Fletcher Well near Greensboro, FL.

LOCATION.--Lat 30°32'43", long 84°43'03", in SW¼NE¼NE¼ sec.27, T.2 N., R.5 W., Hydrologic Unit 03120003, 0.2 mi (0.3 km) south of State Highway 274 and 1.9 mi (3.1 km) southeast of Greensboro.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, irrigation, artesian well, diameter 8 in (20 cm), depth 803 ft (244 m), cased to 530 ft (161 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 8 in (20 cm) casing, 0.4 ft (0.1 m) above land-surface datum. Prior to October 1, 1977 water-level recorder at same site and datum.

DATUM.--Land-surface datum is 250.41 ft (76.32 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--November 1974 to September 1977; October 1977 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 76.57 ft (23.33 m) NGVD, May 23, 1976; lowest, 71.31 ft (21.73 m) NGVD, Sept. 23, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 12...	1235	72.51	MAY 15...	1035	71.35
JAN 19...	0945	71.40	JUL 27...	0940	73.60
APR 05...	1500	72.40	SEP 14...	0940	72.37

WELL NUMBER.--303550084345001. City of Quincy Well No. 3 at Quincy, FL.

LOCATION.--Lat 30°35'50", long 84°35'50", in SE¼NW¼SW¼ sec.6, T.2 N., R.3 W., Hydrologic Unit 0312003, at water plant, 0.8 mi (1.3 km) north of intersection of U.S. Highway 90 and State Highway 267 at Quincy.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, public-supply, artesian well, diameter 8 in to 6 in (20 to 15 cm), depth 701 ft (214 m), cased to 430 ft (131 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 6 in (15 cm) tee, 2.00 ft (0.61 m) above land-surface datum. Prior to Oct. 1980 water-level recorder at same site and datum.

DATUM.--Land-surface datum is 151.46 ft (46.16 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--February 1961 to July 1964 (bimonthly); January 1965 to April 1974 (semiannually); January 1975 to September 1977 (bimonthly); October 1977 to September 1980; October 1980 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 68.11 ft (20.76 m) NGVD, May 7, 1968; lowest, 46.95 ft (14.31 m) NGVD, Sept. 21, 1978.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 12...	1155	58.56	JUN 15...	1000	55.21
JAN 19...	0920	57.32	JUL 27...	0910	59.62
APR 05...	1530	58.41	SEP 14...	0905	58.40
MAY 15...	1000	57.21			

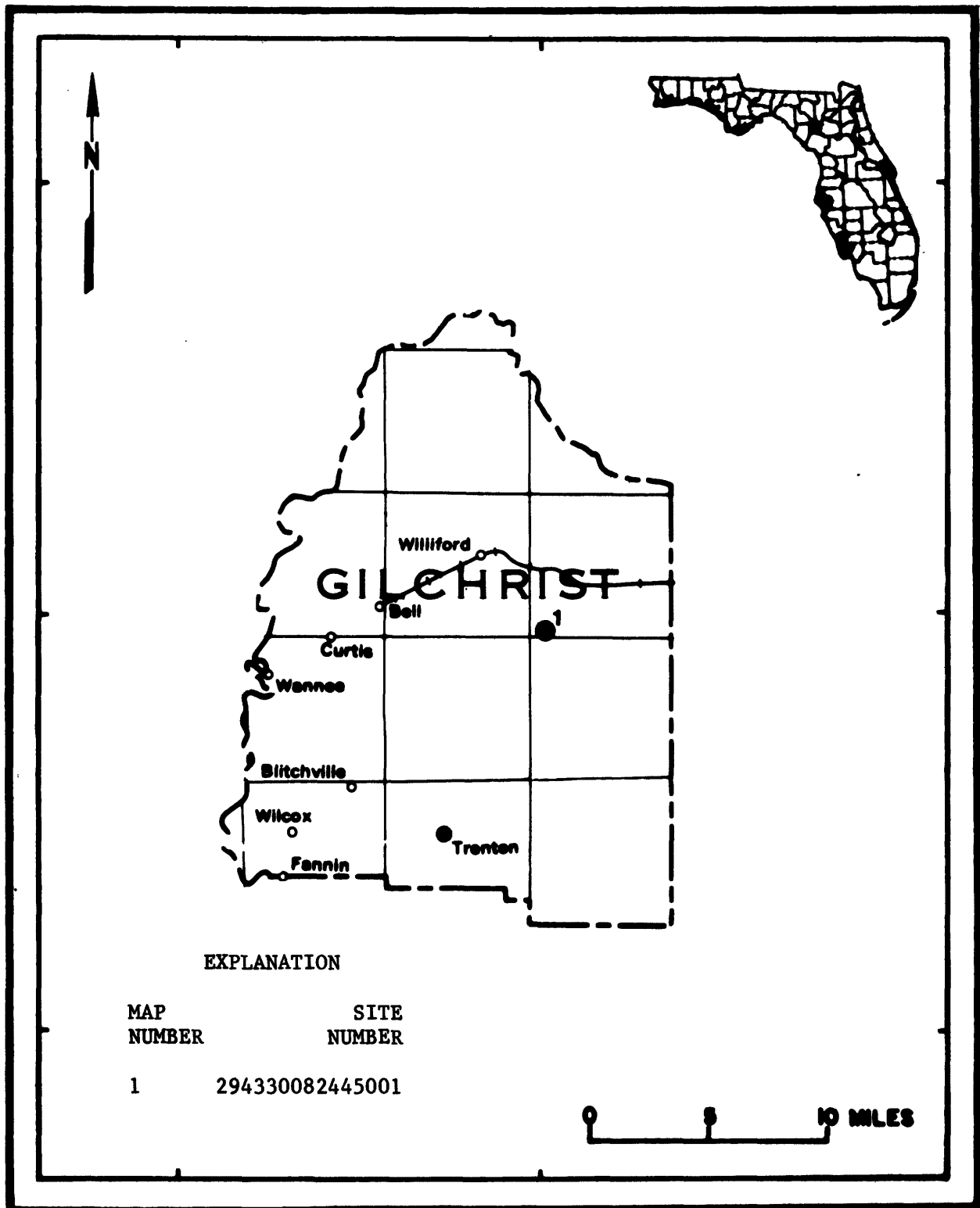


Figure 24. Location of wells in Gilchrist County

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

GILCHRIST COUNTY

WELL NUMBER.--294330082445001. USGS Observation Well near Trenton, FL.

LOCATION.--Lat 29°43'30", long 82°44'50", in NW¼NW¼NE¼ sec.7, T.9 S., R.16 E., Hydrologic Unit 03110206, on south-west corner of intersection of State Highways 47 and 232, 8.5 mi (13.7 km) north of Trenton.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 in (15 cm), depth 101 ft (31 m), cased to 55 (17 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 2.75 ft (0.84 m) above land-surface datum. Measuring point was published incorrectly as 2.85 ft (0.87 m) above land-surface datum from Nov. 1, 1978 to Aug. 18, 1981. Water-levels have been corrected in files of the Geological Survey.

DATUM.--Land-surface datum is 84.56 ft (25.77 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Water levels for period Dec. 10 to Jan. 31 were estimated from nearby well 293620082362001.

PERIOD OF RECORD.--July 1964 to May 1965 (bimonthly), June 1965 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 74.68 ft (22.76 m) NGVD, Oct. 10, 1965; lowest, 44.26 ft (13.49 m) NGVD, Jan. 20, 21, 1978.

REVISED RECORDS.--WDR FL-77-4.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	49.31	48.39	47.50	46.62	47.02	47.22	47.53	54.36	52.42	55.78	57.51	61.10
10	49.25	48.23	47.36	46.49	47.07	47.23	48.49	53.91	52.23	55.96	57.65	63.05
15	49.09	48.11	47.22	46.36	47.10	47.26	51.80	53.45	52.00	55.80	57.81	64.05
20	48.92	47.95	47.07	46.51	47.20	47.23	54.16	53.06	52.04	55.68	58.31	64.05
25	48.76	47.80	46.94	46.76	47.24	47.19	54.70	52.74	52.59	55.60	58.86	63.47
EOM	48.54	47.65	46.77	46.96	47.24	47.31	54.72	52.49	54.86	56.99	60.72	63.51
MEAN	49.03	48.08	47.19	46.61	47.12	47.23	51.40	53.46	52.51	55.81	58.28	63.08
MAX	49.36	48.50	47.62	46.96	47.24	47.31	54.77	54.66	54.86	56.99	60.72	64.17
MIN	48.54	47.65	46.77	46.36	46.98	47.18	47.36	52.49	51.93	55.14	57.25	60.91
WTR YR 1982	MEAN	51.66	MAX	64.17	SEP 18	MIN	46.36	JAN 15	AND OTHERS			

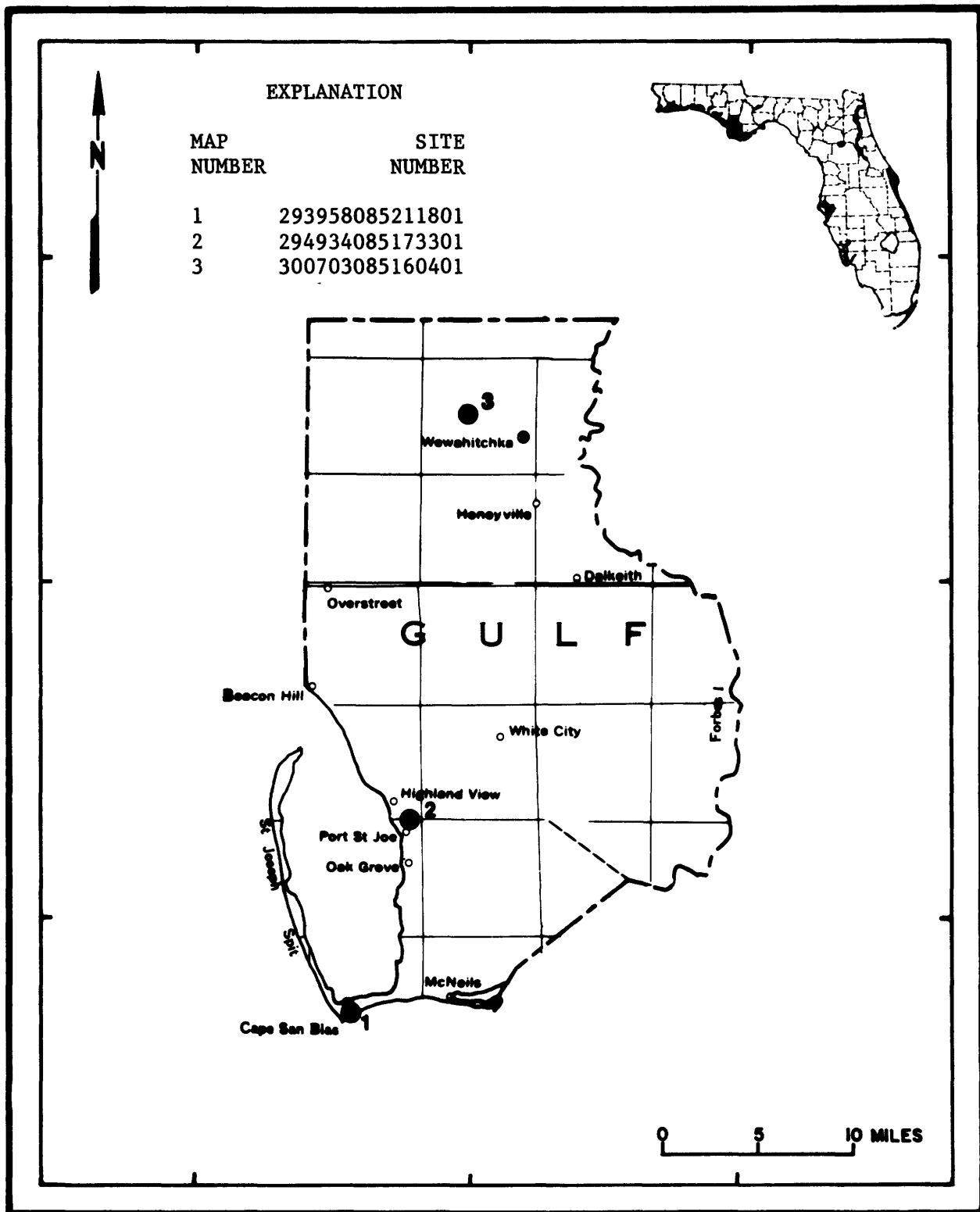


Figure 25. Location of wells in Gulf County

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

GULF COUNTY

WELL NUMBER.--293958085211801. Local Number D3A. U.S. Air Force Well near Port St. Joe, FL.

LOCATION.--Lat 29°39'58", long 85°21'18", in NE¼NE¼SE¼ sec.29, T.9 S., R.11 W., Hydrologic Unit 03140101, 0.3 mi (0.5 km) south of Cape San Blas Lighthouse, 3.2 mi (5.1 km) west of intersection of State Highway 30E and U.S. Highway 98, and 10 mi (16 km) southwest of Port St. Joe.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, diameter 4 in (10 cm), depth 595 ft (181 m), cased to 487 ft (148 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of bushing, 1.48 ft (0.45 m) above land-surface datum.

DATUM.--Land-surface datum is 7.24 ft (2.21 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--April 1961 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.44 ft (2.88 m) NGVD, Apr. 27, 1961; lowest measured, 6.11 ft (1.86 m) NGVD, Nov. 18, 1976.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 13...	1420	7.67	MAY 13...	1200	8.14
JAN 13...	1100	8.24	JUL 29...	1200	7.97
APR 05...	1205	7.99			

WELL NUMBER.--294934085173301. St. Joe Paper Company Well at Port St. Joe, FL.

LOCATION.--Lat 29°49'34", long 85°17'33", NW¼NE¼SE¼ sec. 36, T.7 S., R.11 W., Hydrologic Unit 03140101, about 100 ft (30 m) south of canal, 0.55 mi (0.88 km) northeast of water treatment plant at Port St. Joe.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 16 in (41 cm), depth and casing length unknown.

INSTRUMENTATION.--Tape measured. Measuring point: Top of 1 in (2 cm) hole in pumpbase 1.3 ft (0.4 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 18 ft (5.5 m) from topographic map.

PERIOD OF RECORD.--May 1980 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.20 ft (0.06 m) NGVD, Jan. 13, 1982, lowest measured -9.25 ft (2.82 m) May 27, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 13...	1330	-1.62	MAY 13...	1230	-5.00
JAN 13...	1140	0.20	AUG 12...	1210	-3.35
APR 05...	1230	-1.03			

GULF COUNTY

WELL NUMBER.--300703085160401. Exxon Supply Well near Wewahitchka, FL.

LOCATION.--Lat 30°07'03", long 85°16'04", in SW¼NE¼SW¼ sec. 20, T.4 S., R.10 W., Hydrologic Unit 03140101, 300 ft (91 m) east of dirt road, 2.0 mi (3.2 km) south of State Highway 22, 4.5 mi (7.2 km) west of Wewahitchka.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, supply, unused, artesian well, diameter 8 in (20 cm), depth 242 ft (74 m), cased to 232 ft (71 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of shelter floor 3.18 ft (0.97 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 41 ft (125 m) from topographic map.

PERIOD OF RECORD.--November 1980 to April 1981 (bimonthly); May 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 28.43 ft (8.66 m) NGVD, Mar. 12, 1981; lowest 17.35 ft (5.29 m) NGVD, June 28, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5							---	24.90	19.34	19.07	22.41	
10							---	24.44	18.61	19.92	22.75	
15							---	23.63	17.81	20.60	23.13	
20							---	22.39	17.57	21.12	23.40	
25							---	20.92	17.47	21.50	23.60	
EOM							25.61	20.13	17.83	22.03	---	
MEAN							25.61	23.02	18.22	20.32	23.06	
MAX							25.61	25.80	19.91	22.03	23.79	
MIN							25.61	20.13	17.45	18.08	22.12	

WTR YR 1981 MEAN 21.20 MAX 25.80 MAY 1 MIN 17.45 JUN 27 AND OTHERS

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.27	25.54	25.62	26.28	26.84	27.48	27.91	28.01	27.47	26.04	27.07	
10	25.08	25.42	25.76	26.45	26.95	27.40	27.94	28.03	26.16	26.27	27.21	
15	25.05	25.43	26.04	26.53	27.08	27.52	27.97	28.01	24.96	26.43	27.38	
20	25.01	25.54	25.83	26.56	27.23	27.58	27.95	28.04	24.53	26.70	---	
25	25.29	25.54	26.12	26.68	27.20	27.81	28.08	28.12	25.22	26.81	---	
EOM	25.15	25.67	26.37	26.82	27.25	27.65	28.01	27.79	25.70	26.97	---	
MEAN	25.17	25.43	25.92	26.54	27.06	27.54	27.92	28.03	25.79	26.47	27.19	
MAX	25.39	25.67	26.37	26.82	27.33	27.85	28.08	28.13	27.52	26.97	27.40	
MIN	25.01	25.17	25.62	26.28	26.75	27.20	27.68	27.79	24.42	25.73	27.01	

WTR YR 1982 MEAN 26.61 MAX 28.13 MAY 24 MIN 24.42 JUN 19

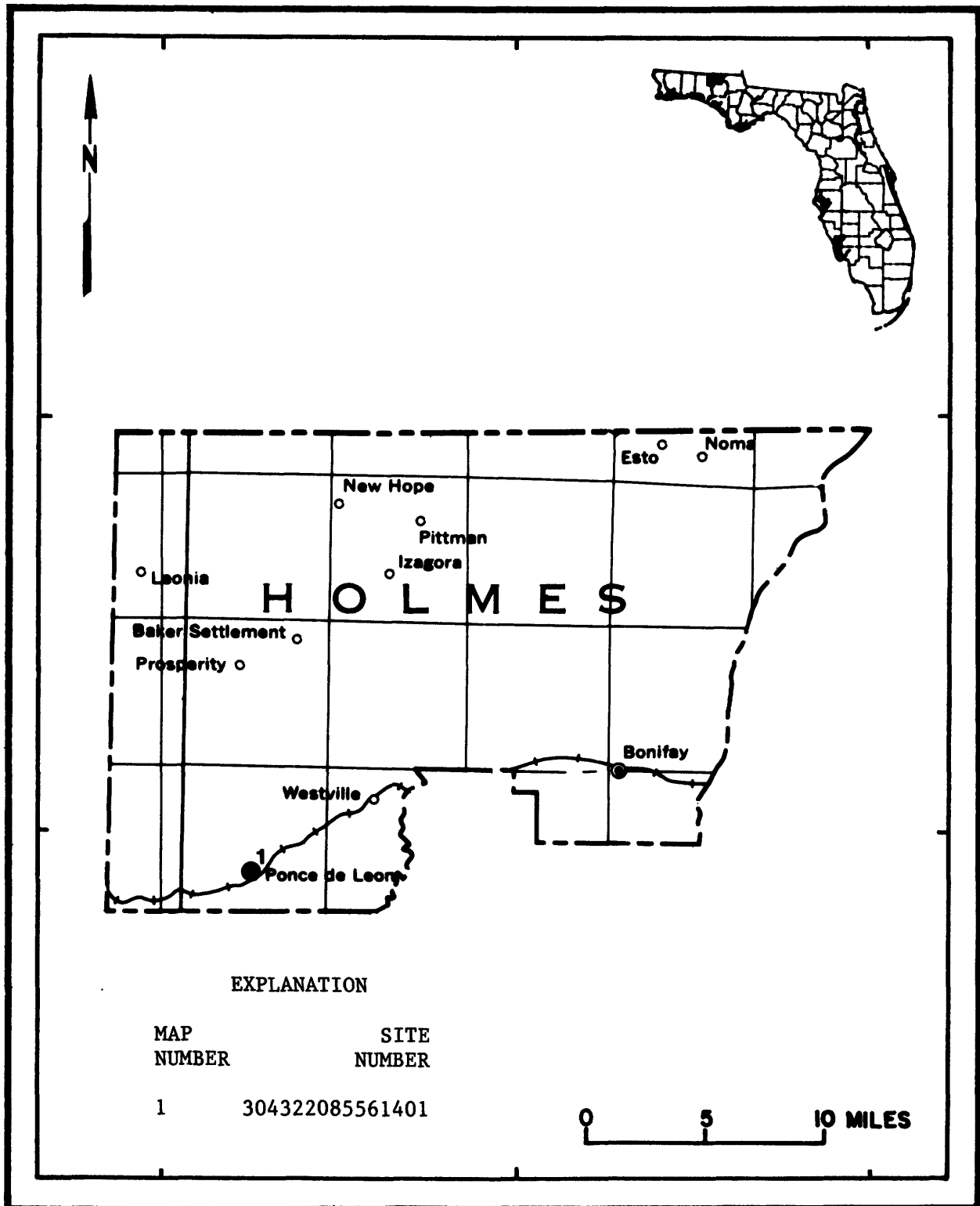


Figure 26. Location of wells in Holmes County

HOLMES COUNTY

WELL NUMBER.--304322085561401. Local Number 4. Mrs. Dan Hughes Well at Ponce de Leon, FL.

LOCATION.--Lat 30°43'22", long 85°56'14", in SE¼NE¼SE¼ sec.28, T.4 N., R.17 W., Hydrologic Unit 03140203, at water tower, south of Louisville and Nashville Railroad tracks at Ponce de Leon.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, public-supply, artesian well, diameter 6 in (15 cm), depth 187 ft (57 m), casing length unknown.

INSTRUMENTATION.--Pressure gage or tape measured. Measuring point: Top of reducing tee, 1.50 ft (0.46 m) above land-surface datum.

DATUM.--Land-surface datum is 62.18 ft (18.95 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Water levels affected by pumping at times.

PERIOD OF RECORD.--June 1938 (annually); September 1947 to current year (bimonthly). Records of water levels prior to September 1947 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 69.08 ft (21.06 m) NGVD, May 6, 1964; lowest measured, 62.20 ft (18.96 m) NGVD, Nov. 6, 1974.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV			JUL		
18...	1200	62.67	27...	1015	63.10
JAN			SEP		
19...	1155	63.17	14...	1005	63.06
MAY					
04...	1040	63.59			

WATER RESOURCES DATA FOR FLORIDA, 1982
Volume 4: Northwest Florida

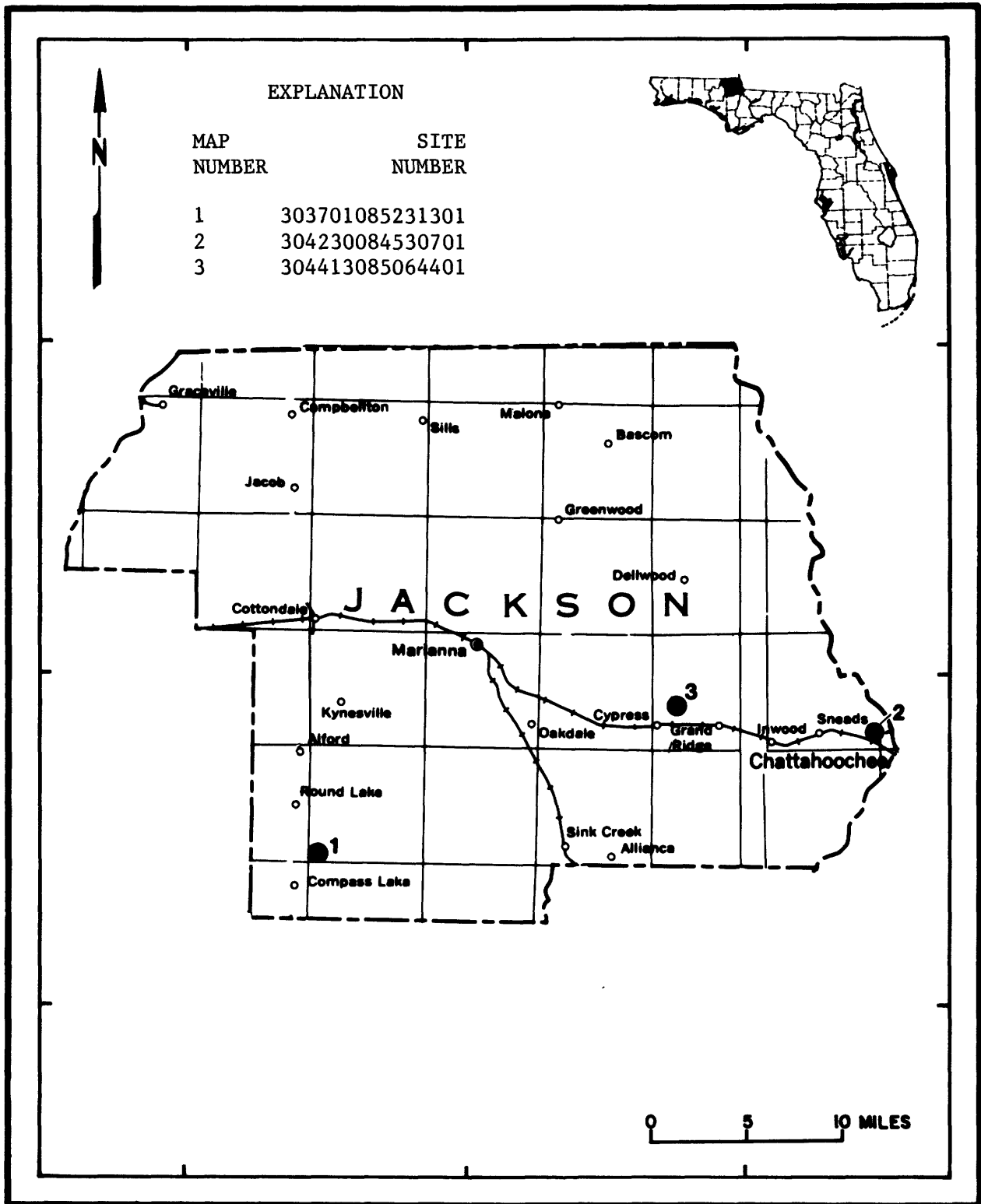


Figure 27. Location of wells in Jackson County

JACKSON COUNTY

WELL NUMBER.--303701085231301. Florida Forest Service Observation Well near Compass Lake, FL.

LOCATION.--Lat 30°37'01", long 85°23'13", in NE¼NE¼SE¼ sec 36, T.3 N., R.11 W., Hydrologic Unit 03140101, 100 ft (30 m) east of U.S. Highway 231, 1.0 mi (1.6 km) north of Compass Lake.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, domestic, unused, artesian well, diameter 4 in (10 cm), depth 522 ft (159 m), cased to 433 ft (132 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 4 in (10 cm) casing, 1.0 ft (0.3 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 305 ft (93 m) from topographic map.

PERIOD OF RECORD.--May 1980 (annually); October 1981 to September 1982 (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 105.76 ft (32.24 m) NGVD, May 21, 1980; lowest measured, 97.20 ft (29.63 m) NGVD, Jan. 21, 1982.

ELEVATION, IN FEET NGVD, OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT 08...	1230	98.60	MAR 22...	0910	98.22
NOV 27...	1530	97.38	MAY 06...	1505	98.64
JAN 21...	1430	97.20			

WELL NUMBER.--304230084530701. Apalachee Correctional Institute Well near Sneads, FL.

LOCATION.--Lat 30°42'30", long 84°53'07", in NW¼NW¼NE¼ sec.36, T.4 N., R.7 W., Hydrologic Unit 03130011, 50 ft (15.2 m) south of paved road, 0.7 mi (1.1 km) east of intersection of paved road and U.S. Highway 90, and 2.3 mi (3.7 km) east of Sneads.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, irrigation, artesian well, diameter 6 in (15 cm), depth 457 ft (139 m), cased to 120 ft (37 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 6 in (15 cm) casing 1.30 ft (0.40 m) above land-surface datum.

DATUM.--Land-surface datum is 90 ft (27.4 m) from topographic map.

REMARKS.--Water levels affected by nearby pumping.

PERIOD OF RECORD.--November 1980 to current year (bimonthly) (discontinued).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 67.80 ft (20.66 m) NGVD, Feb. 18, 1981; lowest, 64.38 ft (19.62 m) NGVD, Nov. 12, 1980 and Sept. 17, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 09...	1000	65.70	MAY 14...	1145	64.98
JAN 19...	0900	66.93	JUN 15...	1045	65.93

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

JACKSON COUNTY

WELL NUMBER.--304413085064401. Local Number 46. International Paper Corporation Well near Cypress, FL.

LOCATION.--Lat 30°44'13", long 85°06'44", in NW¼NW¼NW¼ sec.23, T.4 N., R.9 W., Hydrologic Unit 03130012, 600 ft (183 m) south of U.S. Highway 90 and 2.0 mi (3.2 km) west of intersection of U.S. 90 and SR 275 at Cypress.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, domestic, observation, artesian well, diameter 4 in (10 cm), depth 210 ft (64 m), cased to 94 ft (29 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of steel plate, 1.00 ft (0.30 m) above land-surface datum.

DATUM.--Land-surface datum is 166.75 ft (50.82 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--February 1961 to July 1964 (bimonthly); January 1965 to May 1977 (semiannually); November 1977 to current year (bimonthly). Records of water levels prior to October 1975 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 103.77 ft (31.63 m) NGVD, May 6, 1964; lowest measured, 82.18 ft (25.05 m) NGVD, Jan. 6, 1969.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV			JUN		
19...	1430	83.83	15...	1000	87.75
JAN			JUL		
19...	0910	83.19	27...	1010	87.10
MAR			SEP		
25...	1635	85.87	14...	0850	87.20
MAY					
14...	1000	87.00			

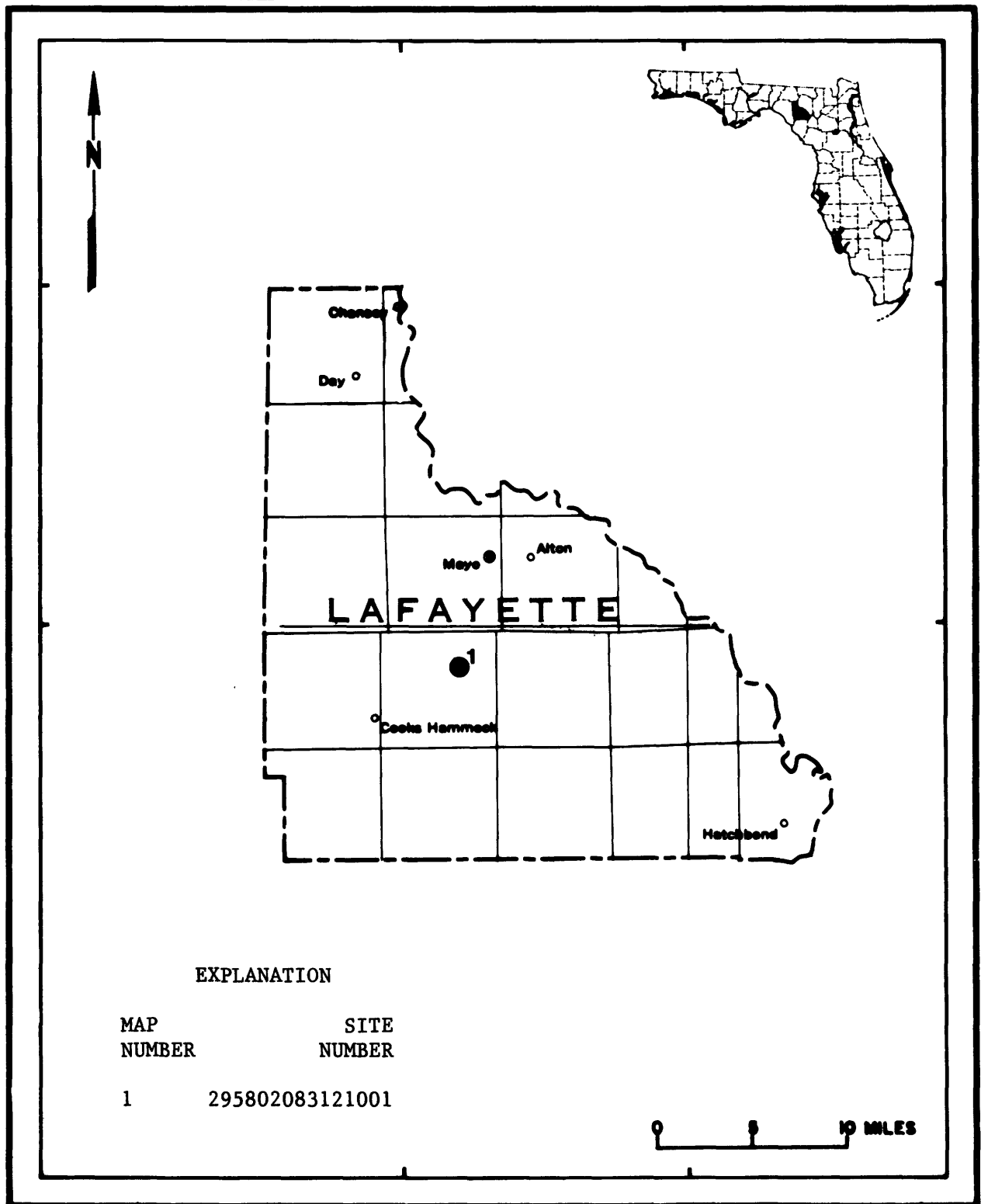


Figure 28. Location of wells in Lafayette County

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

LAFAYETTE COUNTY

WELL NUMBER.--295802083121001. Lester McCray Well near Mayo, FL.

LOCATION.--Lat 29°58'02", long 83°12'10", in NW¼NW¼NW¼ sec.14, T.6 S., R.11 E., Hydrologic Unit 03110102, 0.6 mi (1.0 km) southeast of State Highway 51, 5.0 mi (8.0 km) northeast of Cooks Hammock and 5.8 mi (9.3 km) south of Mayo.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, irrigation, artesian well, diameter 6 in (15 cm), depth 146 ft (44 m), cased to 112 ft (34 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top edge of recorder shelf, 3.63 ft (1.11 m) above land-surface datum.

DATUM.--Land-surface datum is 73.85 ft (22.51 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--February 1961 to March 1976 (bimonthly); May 1976 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 70.70 ft (21.55 m) NGVD, Mar. 9, 1978; lowest measured, 62.13 ft (18.94 m) NGVD, Nov. 4, 1968.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	65.96	66.68	68.11	69.51	69.73	69.23	69.17	67.35	66.61	68.48	69.43	68.38
10	65.51	67.78	67.79	69.48	69.33	69.76	70.35	66.87	65.96	69.14	69.12	69.40
15	65.23	68.55	68.85	69.88	69.67	69.21	69.61	66.34	65.47	69.28	68.95	69.92
20	64.87	67.99	68.84	69.40	69.52	68.77	68.85	65.92	66.65	69.66	69.34	69.52
25	64.64	67.70	68.71	69.09	68.94	70.33	68.34	65.89	69.55	70.08	69.22	69.67
EOM	65.67	67.51	69.28	68.76	68.82	69.84	67.89	66.61	69.51	70.23	68.87	68.90
MEAN	65.42	67.60	68.45	69.37	69.36	69.50	69.12	66.59	67.18	69.45	69.24	69.36
MAX	66.35	68.83	69.28	69.98	69.86	70.33	70.43	67.78	69.80	70.44	70.02	70.23
MIN	64.64	65.67	67.48	68.76	68.68	68.60	67.89	65.69	65.37	68.41	68.72	68.26
WTR YR 1982	MEAN	68.38	MAX	70.44	JUL 29	MIN	64.64	OCT 24	AND OTHERS			

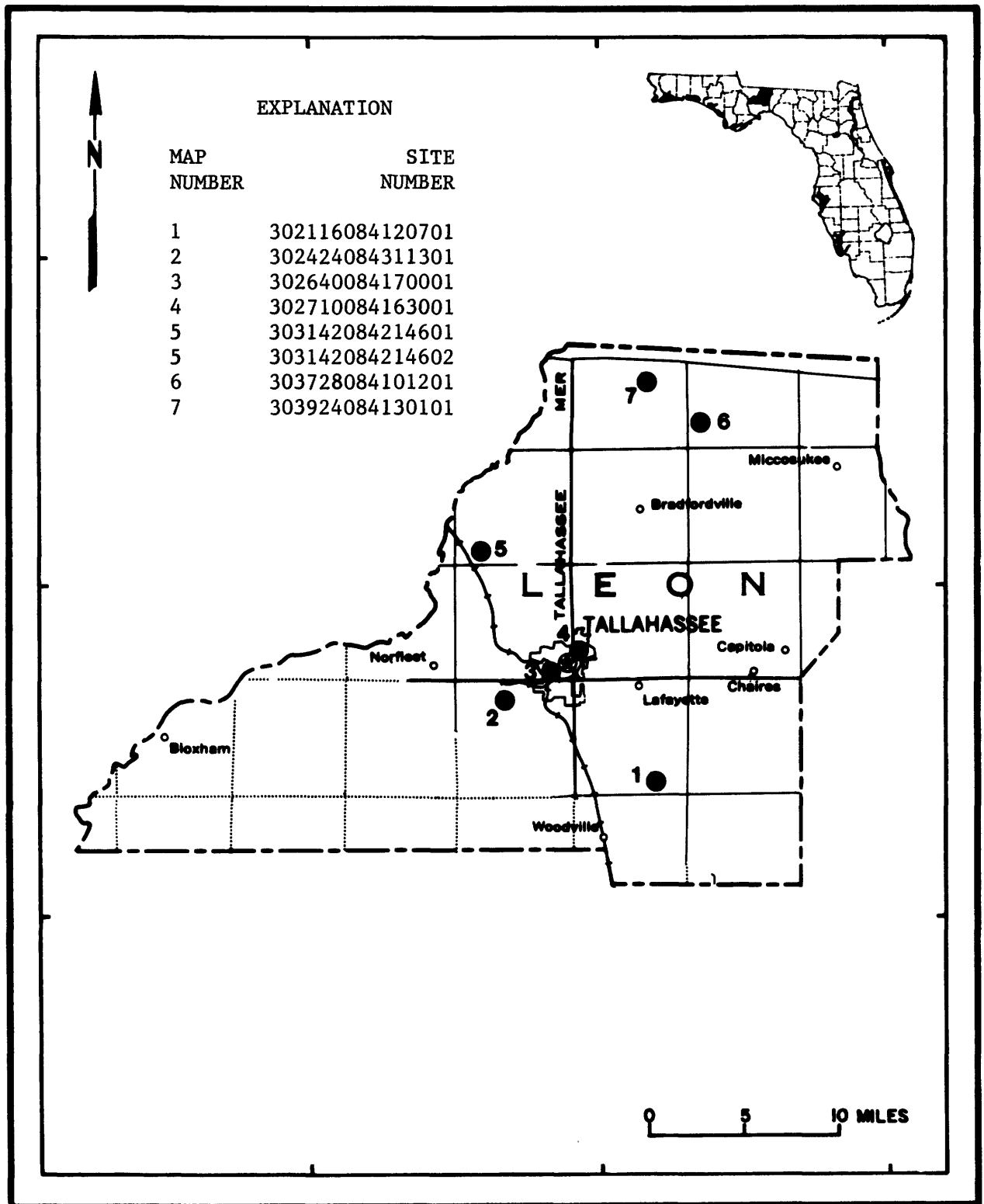


Figure 29. Location of wells in Leon County

LEON COUNTY

WELL NUMBER.--302116084120701. Local number SE No. 3. U.S. Geological Survey Observation Well near Tallahassee, FL.

LOCATION.--Lat 30°21'16", long 84°12'07", in SW¼SW¼NE¼ sec.35, T.1 S., R.1 E., Hydrologic Unit 03120001, at South-east Sprayfield, 1.2 mi (1.9 km) south of entrance on Tram Road, and 7.4 mi (11.9 km) southeast of State Capitol at Tallahassee, FL.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in (10 cm), depth 62 ft (19 m), cased to 53 ft (16 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 2.8 ft (0.85 m) above land-surface datum.

DATUM.--Land-surface datum is 42.02 ft (12.81 m) National Geodetic Vertical Datum of 1929. Prior to October 1, 1981 land-surface datum was incorrectly reported as 42.16 ft (12.85 m).

PERIOD OF RECORD.--December 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.51 ft (5.03 m) NGVD, Aug. 3, 4, 1982; lowest, 10.87 ft (3.31 m) NGVD, Nov. 3, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.24	11.00	11.23	11.43	12.27	12.45	12.92	12.46	11.78	14.45	16.47	---
10	11.16	11.01	11.11	11.61	12.48	12.37	13.19	12.24	12.42	14.09	16.10	---
15	10.97	10.95	11.14	11.92	12.67	12.28	13.50	11.95	13.26	14.14	15.75	---
20	10.93	11.12	11.04	12.06	12.78	12.17	13.35	11.72	15.10	14.69	15.41	---
25	11.07	11.16	11.20	12.00	12.63	12.48	13.02	11.58	15.29	14.68	15.41	---
EOM	11.02	11.18	11.24	11.78	12.54	12.88	12.84	11.53	15.01	15.98	15.33	---
MEAN	11.12	11.05	11.15	11.76	12.50	12.42	13.15	11.98	13.56	14.56	15.81	15.29
MAX	11.42	11.18	11.24	12.06	12.78	12.88	13.50	12.75	15.37	15.98	16.51	15.33
MIN	10.93	10.87	10.92	11.29	11.80	12.10	12.80	11.53	11.55	13.98	15.33	15.25
WTR YR 1982	MEAN	12.67	MAX	16.51	AUG 3 AND OTHERS	MIN	10.87	NOV 3				

WELL NUMBER.--302424084311301. City of Tallahassee Airport Well near Tallahassee, FL.

LOCATION.--Lat 30°24'24", long 84°21'13", in NE¼SE¼SW¼ sec. 8, T.1 S., R.1 W., Hydrologic Unit 03120001, 150 ft (46 m) west of State Highway 263, 0.7 mi (1.1 km) northeast of airport control tower, and 5.0 mi (8.0 km) southwest of State Capitol at Tallahassee, FL.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, municipal, artesian well, diameter 10 in (25 cm), depth 194 ft (59 m) cased to 190 ft (58 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 1.65 ft (0.50 m) above land-surface datum.

DATUM.--Land-surface datum is 67.18 ft (20.48 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--June 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 27.08 ft (8.25 m) NGVD, May 24, 1979; lowest, 16.94 ft (5.16 m) NGVD, Nov. 28, 29, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.66	17.09	---	---	---	---	---	---	---	20.56	23.61	24.20
10	17.55	17.04	---	---	---	---	---	---	---	20.76	24.22	23.90
15	17.42	17.02	---	---	---	---	---	---	18.41	21.01	24.64	23.83
20	17.28	17.02	---	---	---	---	---	---	19.03	21.37	24.83	23.67
25	17.25	16.96	---	---	18.61	---	---	---	19.83	21.76	24.81	23.66
EOM	17.14	16.97	---	---	---	---	---	---	20.36	22.50	24.49	23.48
MEAN	17.43	17.03	16.97	---	18.61	18.71	---	---	19.34	22.48	24.35	23.85
MAX	17.79	17.12	16.97	---	18.61	18.71	---	---	20.36	22.50	24.94	24.44
MIN	17.14	16.94	16.97	---	18.61	18.71	---	---	18.37	20.38	22.76	23.48
WTR YR 1982	MEAN	20.82	MAX	24.94	AUG 22	MIN	16.94	NOV 28 AND OTHERS				

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

LEON COUNTY

WELL NUMBER.--302640084170001. Leon 152. State of Florida Observation Well at Tallahassee, FL.

LOCATION.--Lat 30°26'40", long 84°17'00", in NW¼SW¼NE¼ sec.35, T.1 N., R.1 W., Hydrologic Unit 03120001, behind Herman Gunter Building, at corner of West Tennessee Street and Woodward Street, 2.7 mi (4.3 km) west of State Capitol at Tallahassee.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 to 4 to 3 in (15 to 10 to 8 cm), depth 310 ft (94 m), cased to 146 ft (44 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 6 in (15 cm) casing, 0.86 ft (0.26 m) above land-surface datum. Since October 15, 1960 water-level recorder, used for display purposes only at Herman Gunter Building.

DATUM.--Land-surface datum is 100.52 ft (30.64 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--August 1960 (annually); October 1960 to December 1961; January 1962 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.76 ft (9.98 m) NGVD, July 1, 1965; lowest measured, 18.00 ft (5.49 m) NGVD, Nov. 18, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 18...	1045	18.00	MAY 05...	0850	23.28
DEC 15...	0830	18.84	JUN 18...	1005	20.17
JAN 22...	1400	19.39	JUL 22...	0915	22.96
FEB 23...	1555	20.57	AUG 25...	1335	25.54
MAR 23...	1500	20.76	SEP 23...	0820	24.31
APR 21...	1500	21.59			

WELL NUMBER.--302710084163001. Local number 7, City of Tallahassee Test Well at Tallahassee, FL.

LOCATION.--Lat 30°27'10", long 84°16'30", in NE¼SW¼SW¼ sec.30, T.1 N., R.1 E., Hydrologic Unit 03120001, in pump-house at Lafayette Park, 1.3 mi (2.1 km) northeast of State Capitol at Tallahassee.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 6 in (15 cm), depth 314 ft (96 m), cased to 165 ft (50 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 1.20 ft (0.37 m) above land-surface datum. Prior to Jan. 29, 1965 water-level recorder at same site and datum.

DATUM.--Land-surface datum is 186.50 ft (56.84 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--June 1945 to January 1965; February 1965 to current year (monthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level 37.66 ft (11.47 m) NGVD, Apr. 26, 1948; lowest 16.42 ft (5.00 m) NGVD, June 14, 1955.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT 27...	1320	19.86	APR 28...	1305	22.42
DEC 01...	0945	19.80	MAY 26...	0845	21.09
DEC 28...	1400	19.66	JUL 30...	0850	24.23
JAN 27...	1510	20.05	AUG 31...	0850	25.63
FEB 26...	0845	21.17	SEP 28...	0825	24.86
MAR 30...	1505	21.86			

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

LEON COUNTY

WELL NUMBER.--303142084214601. USGS Observation Well at Lake Jackson near Tallahassee, FL.

LOCATION.--Lat 30°31'42", long 84°21'46", in NE¼NE¼SE¼ sec.31, T.2 N., R.1 W., Hydrologic Unit 03120003, 0.3 mi (0.5 km) south of U.S. Highway 27 and 12 mi (19 km) northwest of State Capitol at Tallahassee.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, test, artesian well, diameter 6 in (15 cm), depth 225 ft (69 m), cased to 100 ft (30 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 3.09 ft (0.94 m) above land-surface datum.

DATUM.--Land-surface datum is 122.20 ft (37.25 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--September 1966 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 40.92 ft (12.47 m) NGVD, June 29, 1973; lowest, 28.04 ft (8.55 m) NGVD, Jan. 7, 1972.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	30.47	29.81	29.37	29.46	29.98	31.20	32.01	32.01	31.06	30.74	33.22	33.51
10	30.36	29.81	29.33	29.50	30.26	31.33	32.14	31.96	30.74	30.99	33.46	33.54
15	30.19	29.82	29.25	29.50	30.57	31.32	32.36	31.79	30.57	31.04	33.77	33.42
20	30.09	29.86	29.28	29.69	30.94	31.33	32.27	31.53	29.59	31.53	33.72	33.31
25	30.07	29.62	29.50	29.71	30.94	31.70	32.52	31.41	30.23	31.69	33.78	33.33
EOM	29.78	29.68	29.70	29.85	30.99	31.83	32.01	31.03	30.57	32.34	33.54	33.10
MEAN	30.22	29.77	29.39	29.63	30.51	31.39	32.21	31.66	30.40	31.27	33.56	33.37
MAX	30.66	29.89	29.70	29.93	31.06	31.83	32.56	32.11	31.17	32.34	33.84	33.60
MIN	29.78	29.60	29.23	29.42	29.70	31.01	31.80	30.95	29.16	30.56	32.60	33.10
WTR YR 1982	MEAN	31.12	MAX	33.84	AUG 18 AND OTHERS			MIN	29.16	JUN 16		

WELL NUMBER.--303142084214602. USGS Observation Well at Lake Jackson near Tallahassee, FL.

LOCATION.--Lat 30°31'42", long 84°21'46", in NE¼NE¼SE¼ sec.31, T.2 N., R.1 W., Hydrologic Unit 03120003, 0.3 mi (0.5 km) south of U.S. Highway 27 and 12 mi (19 km) northwest of State Capitol at Tallahassee.

AQUIFER.--Hawthorn sand-and-gravel aquifer of the Miocene System, Geologic Unit 122 HTRNS.

WELL CHARACTERISTICS.--Drilled, test, artesian well, diameter 6 in (15 cm), depth 54 ft (16 m), cased to 49 ft (15 m), screened from 49 to 54 ft (15 to 16 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 3.11 ft (0.95 m) above land-surface datum.

DATUM.--Land-surface datum is 122.26 ft (37.26 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--September 1966 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 93.85 ft (28.60 m) NGVD, Sept. 30, 1966; lowest, 79.43 ft (24.21 m) NGVD, Dec. 17, 1972.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	81.68	81.25	80.39	79.99	80.09	80.85	81.42	81.43	81.41	80.95	80.80	80.97
10	81.68	81.09	80.52	80.13	80.36	80.73	81.10	81.50	81.27	80.87	80.86	80.97
15	81.51	81.03	80.74	80.06	80.38	80.96	81.27	81.48	81.16	80.77	80.97	80.99
20	81.25	80.98	80.13	80.03	80.55	81.07	81.32	81.54	81.10	80.84	80.88	80.94
25	81.52	80.76	80.42	80.17	80.48	81.11	81.59	81.58	80.99	80.69	81.06	80.98
EOM	81.06	80.82	80.37	80.35	80.56	81.03	81.34	81.47	81.01	80.68	80.89	80.75
MEAN	81.54	80.96	80.45	80.14	80.38	80.91	81.28	81.50	81.18	80.81	80.93	80.92
MAX	82.01	81.26	80.93	80.62	80.71	81.15	81.59	81.63	81.48	80.97	81.07	81.07
MIN	81.06	80.65	80.08	79.91	80.03	80.49	81.05	81.36	80.92	80.66	80.76	80.74
WTR YR 1982	MEAN	80.92	MAX	82.01	OCT 2		MIN	79.91	JAN 11			

LEON COUNTY

WELL NUMBER.--303728084101201. Local number 36A. USGS Observation Well at Dawkins Pond near Bradfordville, FL.

LOCATION.--Lat 30°37'28", long 84°10'12", in SE¼SE¼SW¼ sec.30, T.3 N., R.2 E., Hydrologic Unit 0312003, at Dawkins Pond Church, 100 ft (30 m) west of U.S. Highway 319, and 5.2 mi (8.4 km) north of Bradfordville.

AQUIFER.--Hawthorn sand-and-gravel of the Miocene System, Geologic Unit 122 HTRNS.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 1½ in (3.2 cm), depth 41 ft (12.5 m), cased to 38 ft (11.6 m), screened from 38 to 41 ft (11.6 to 12.5 m). Well deepened April 1955 from 30 to 41 ft (9.1 to 12.5 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 3.85 ft (1.17 m) above land-surface datum.

DATUM.--Land-surface datum is 102.12 ft (31.13 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--December 1935 to June 1937 (weekly); July 1942 to March 1943 (monthly); March 1943 to December 1943 (weekly); January 1947 to current year (monthly). Prior to January 1955 published as Leon 36.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 104.07 ft (31.72 m) NGVD, Apr. 27, 1965; lowest measured, 68.46 ft (20.87 m) NGVD, Feb. 28, 1957.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			MAY		
27...	1030	78.36	05...	1225	83.32
DEC			JUN		
01...	1010	77.17	14...	1400	82.01
28...	1500	76.40	JUL		
JAN			21...	1240	82.45
27...	1330	76.60	AUG		
FEB			19...	1215	92.34
22...	1400	78.80	SEP		
MAR			24...	1015	87.59
22...	1150	79.99			
APR					
21...	1050	80.89			

WELL NUMBER.--303924084130101. Tall Timbers Research Well near Iamonia, FL.

LOCATION.--Lat 30°39'24", long 84°13'01", in NW¼SW¼SW¼ sec.15, T.3 N., R.1 E., Hydrologic Unit 03120003, about 0.3 mi (0.5 km) west of Tall Timbers Research Center office, about 0.4 mi (0.6 km) south of State Highway 12, and 2.8 mi (4.5 km) southwest of Iamonia.

AQUIFER.--Floridan aquifer of the Teritary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, irrigation, artesian well, diameter 8 in (20 cm), depth 249 ft (76 m), cased 221 ft (67 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top edge of 6 in (15 cm) horizontal discharge line, 1.8 ft (0.6 m) above land-surface datum.

DATUM.--Land-surface datum is 101.42 ft (30.91 m) National Geodetic Vertical Datum of 1929. Prior to October 1, 1981, land-surface datum was incorrectly reported as 104.50 ft (31.85 m).

PERIOD OF RECORD.--December 1974 to current year (bimonthly). Records of water levels prior to October 1976 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 75.48 ft (23.01 m) NGVD, May 3, 1977; lowest measured, 58.82 ft (17.93 m) NGVD, Dec. 17, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT			APR		
20...	1045	60.19	21...	1140	60.85
NOV			MAY		
09...	1500	59.04	05...	1405	60.75
DEC			JUN		
17...	1100	58.82	14...	1515	60.27
JAN			JUL		
18...	1220	59.27	21...	1430	60.31
FEB			AUG		
22...	1250	60.42	19...	0955	60.98
MAR			SEP		
22...	1215	60.80	24...	0915	60.81

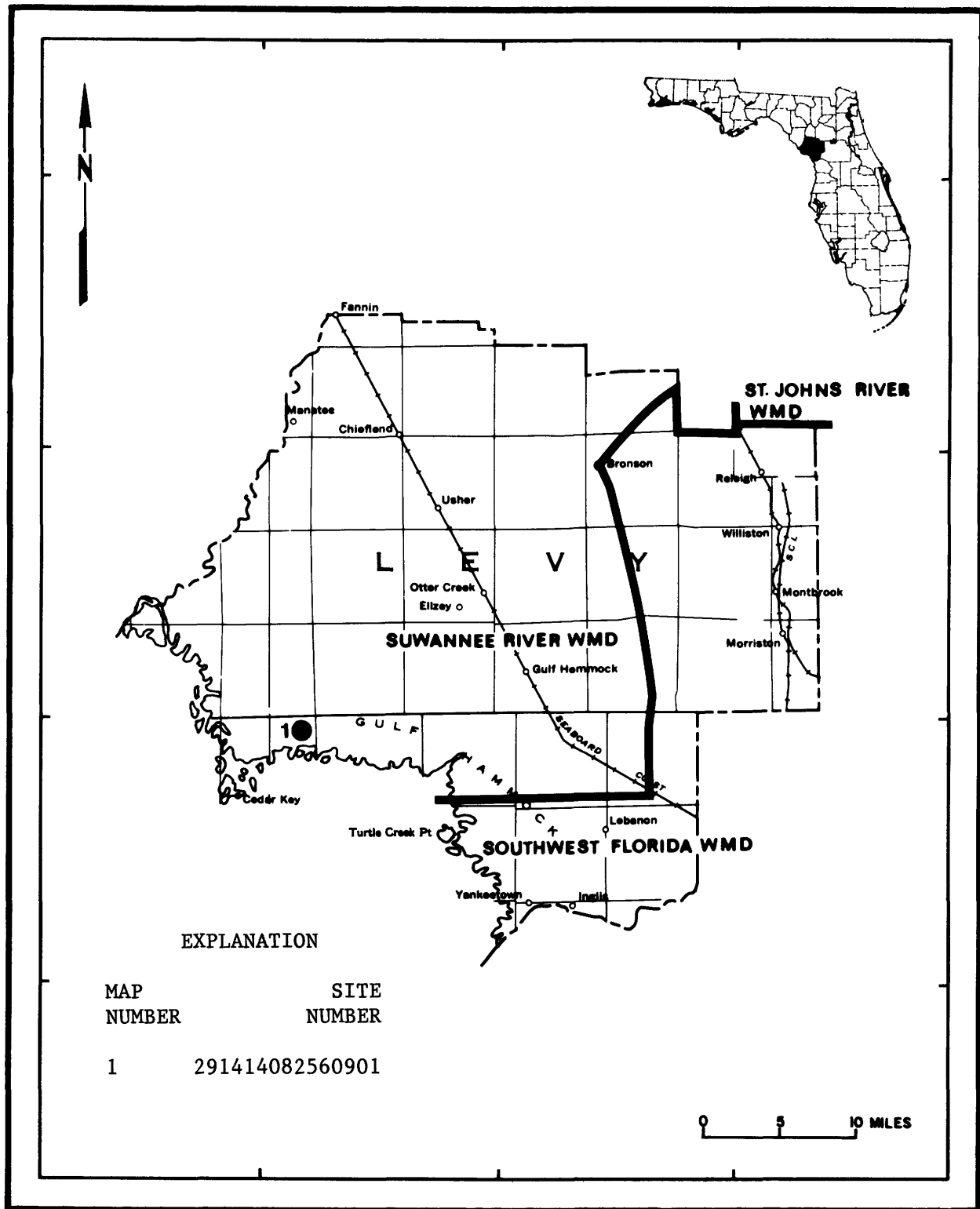


Figure 30. Location of wells in Levy County

LEVY COUNTY

WELL NUMBER.--291414082560901. Rosewood Tower Well near Cedar Keys, FL.

LOCATION.--Lat 29°14'14", long 82°56'09", in SE¼NW¼NW¼ sec.29, T.14 S., R.14 E., Hydrologic Unit 03110101, 50 ft (15 m) north of SR 24 at Suwannee Lookout Tower, (Rosewood Tower) 9.4 mi (15.1 km) northeast of Cedar Key and 11.6 mi (18.7 km) southwest of Otter Creek.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 6 to 4 in (15 to 10 cm), depth 442 ft (135 m), cased to 422 ft (129 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 2.52 ft (0.77 m) above land-surface datum.

DATUM.--Land-surface datum is 16.93 ft (5.16 m) National Geodetic Vertical Datum of 1929.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 11.52 ft (3.51 m) NGVD, Sept. 26, 1982; lowest, 8.59 ft (2.62 m) NGVD, July 19, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	9.69	9.11	9.28	9.32	9.81	10.01	10.33	10.23	9.97	10.55	11.12	11.28
10	9.62	9.24	9.38	9.45	9.93	9.93	10.35	10.20	9.87	10.59	11.04	11.31
15	9.39	9.29	9.52	9.57	9.86	9.98	10.43	10.03	9.76	10.69	11.23	11.39
20	9.18	9.46	9.15	9.65	10.03	9.99	10.43	9.92	9.96	10.81	11.28	11.34
25	9.23	9.37	9.37	9.81	9.91	10.12	10.44	9.83	10.13	10.85	11.31	11.48
EOM	8.97	9.39	9.41	9.85	9.93	10.08	10.37	9.77	10.45	11.02	11.30	11.43
MEAN	9.44	9.24	9.34	9.59	9.92	10.00	10.36	10.03	9.98	10.72	11.21	11.36
MAX	9.90	9.48	9.52	9.87	10.14	10.21	10.45	10.31	10.45	11.02	11.38	11.52
MIN	8.97	8.93	9.15	9.32	9.79	9.84	10.12	9.73	9.76	10.45	11.04	11.22
WTR YR 1982	MEAN	10.10	MAX	11.52	SEP 26	MIN	8.93	NOV 4				

WATER RESOURCES DATA FOR FLORIDA, 1982
Volume 4: Northwest Florida

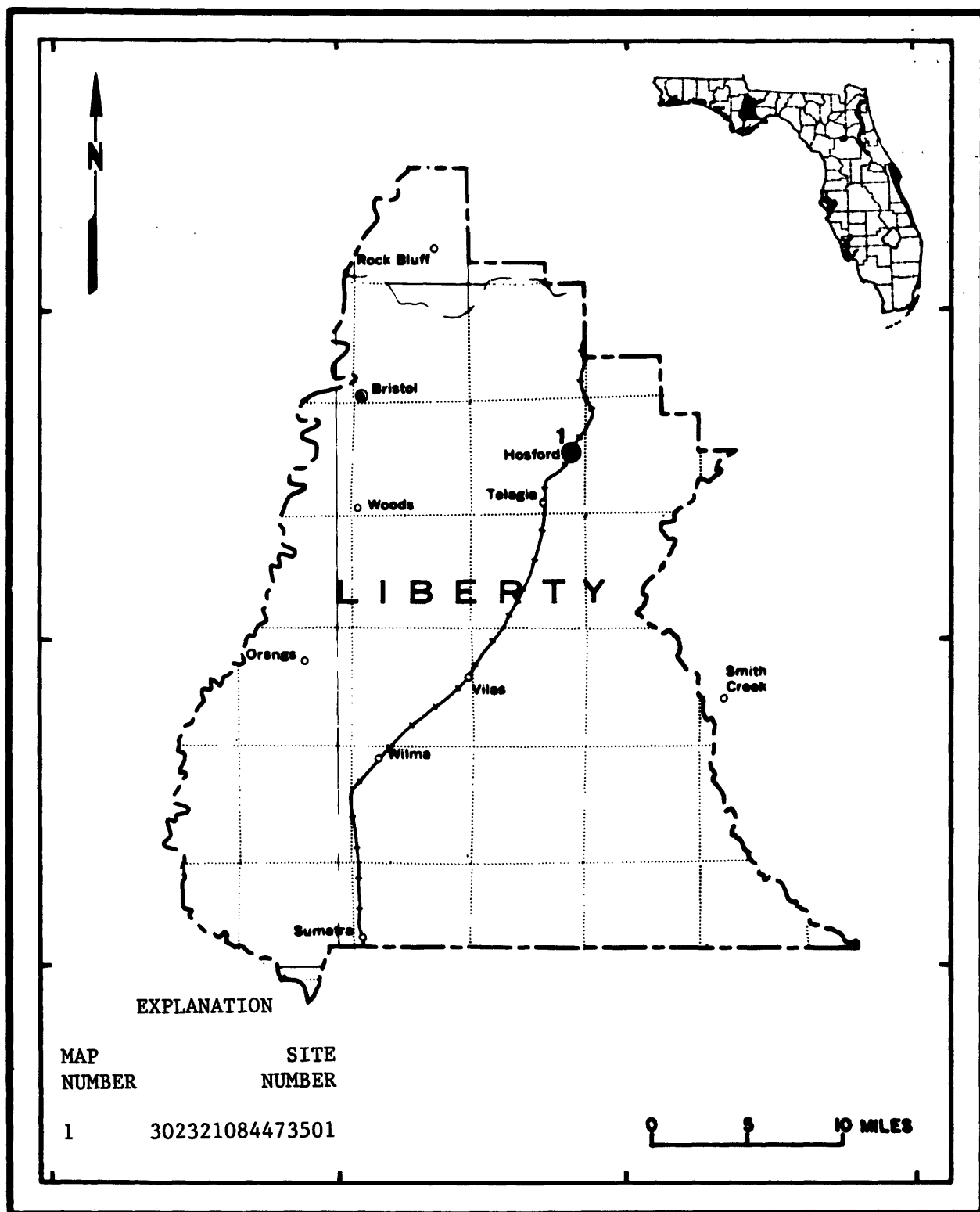


Figure 31. Location of wells in Liberty County

LIBERTY COUNTY

WELL NUMBER.--302321084473501. C. W. Roberts Well at Hosford, FL.

LOCATION.--Lat 30°23'21", long 84°47'35", in NE¼NE¼SW¼ sec.13, T.1 S., R.6 W., Hydrologic Unit 03120003, north of State Highway 20, 0.4 mi (0.6 km) east of intersection of State Highways 65 and 20 at Hosford.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 3 in (8 cm), depth 85 ft (26 m), cased to 70 ft (21 m).

INSTRUMENTATION.--Pressure gage or tape measured. Measuring point: Top of tee, 0.80 ft (0.24 m) above land-surface datum.

DATUM.--Land-surface datum is 87.01 ft (26.52 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--June 1961 to July 1964 (bimonthly); January 1965 to December 1974 (semiannually); January 1975 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 91.91 ft (28.01 m) NGVD, May 6, 1965; lowest measured, 86.38 ft (26.33 m) NGVD, Dec. 16, 1974.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 13...	1005	87.56	APR 05...	1010	89.44
JAN 13...	0930	88.18	MAY 13...	1000	89.51

WATER RESOURCES DATA FOR FLORIDA, 1982
Volume 4: Northwest Florida

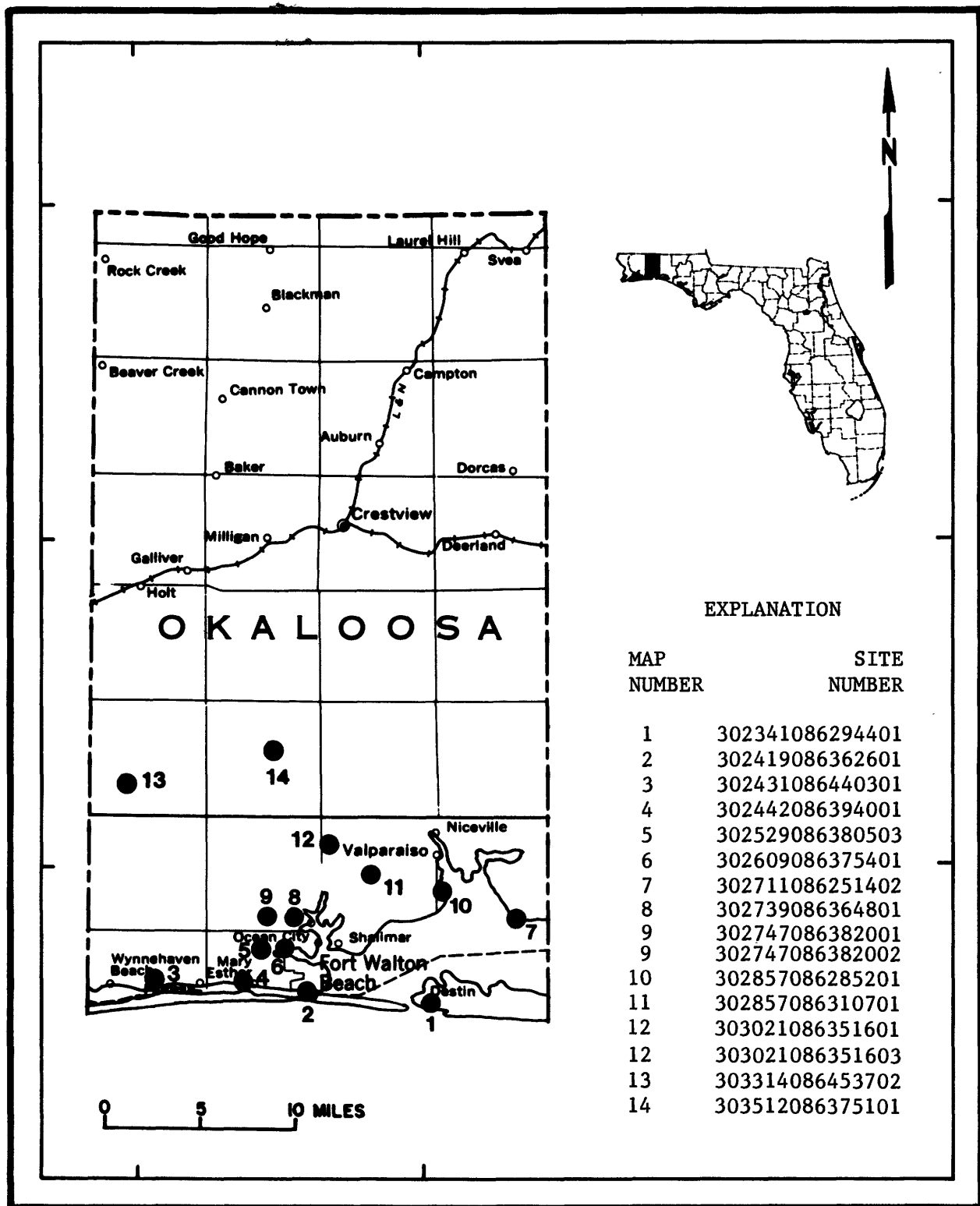


Figure 32. Location of wells in Okaloosa County

OKALOOSA COUNTY

WELL NUMBER.--302341086294401. Destin Water Users Inc. Well Number 1 at Destin, FL.

LOCATION.--Lat 30°23'41", long 86°29'44", in sec.4, T.2 S., R.23 W., Hydrologic Unit 03140103, in pumphouse, 0.2 mi (0.3 km) north of intersection of State Highway 30B and U.S. Highway 98 at Destin.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, public-supply, artesian well, diameter 10 in (25 cm), depth 657 ft (200 m), cased to 440 ft (134 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of hole in pump base, 1.0 (0.3 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 20 ft (6.1 m), from topographic map.

REMARKS.--*Land is not sectionized in this area.

PERIOD OF RECORD ELEVATIONS.--March 1975 to current year (bimonthly).

PERIOD OF RECORD WATER QUALITY.--March 1975 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, -10.22 ft (-3.12 m) NGVD, Mar. 10, 1975; lowest measured, -43.97 ft (-13.40 m) NGVD, July 22, 1981.

ELEVATION, CHLORIDE, CONDUCTANCE AND TEMPERATURE DATA, OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 19...	1315	-33.77	500	--	58	JUL 29...	1000	-41.90	535	--	56
JAN 20...	0900	-25.59	540	--	54	SEP 16...	1240	--	540	--	55
MAR 22...	1300	-25.42	515	--	53	16...	1245	-33.57	--	--	--
MAY 06...	1015	-27.17	450	--	66						

WELL NUMBER.--302419086362601. Local number 3. Okaloosa County School Board Well at Fort Walton Beach, FL.

LOCATION.--Lat 30°24'19", long 86°36'26", in SE¼SE¼SW¼ sec.13, T.2 S., R.24 W., Hydrologic Unit 03140105, at Fort Walton Beach Elementary School near corner of intersection of 1st Street, Windham Avenue, and Elgin Parkway at Fort Walton Beach.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, public-supply, artesian well, diameter 6 in (15 cm), depth 668 ft (204 m), cased to 503 ft (153 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of shelter floor, 2.00 ft (0.61 m) above land-surface datum. Prior to April 1978, measuring point top of hole in pump base, 0.93 ft (0.28 m) above land-surface datum. April 1978 to September 1980, water-level recorder at same datum.

DATUM.--Land-surface datum is 16.44 ft (5.01 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--August 1936, November 1946 (annually); April 1947 to July 1968 (bimonthly); January 1969 to May 1970 (semiannually); May 1971, July 1974 (annually); March 1975 to November 1977 (bimonthly); April 1978 to September 1980; October 1980 to current year (bimonthly). Records of water levels prior to November 1946 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 62.44 ft (19.03 m) NGVD, Aug. 19, 1936; lowest -104.68 ft (-31.91 m) NGVD, July 21, 1979.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 19...	1345	-89.28	MAY 04...	1550	-87.03
JAN 20...	1630	-74.76	JUL 29...	0900	-100.50
MAR 23...	1610	-77.14	SEP 16...	1210	-94.86

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

OKALOOSA COUNTY

WELL NUMBER.--302431086440301. Bill Collier Well near Mary Esther, FL. (Formerly published as Richard Hall Well near Mary Esther.)

LOCATION.--Lat 30°24'31", long 86°44'03", in SW¼SE¼SE¼ sec.15, T.2 S., R.25 W., Hydrologic Unit 03140105, 0.2 mi (0.3 km) south of U.S. 98 and 3.5 miles (5.6 km) west of Mary Esther.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, domestic, artesian well, diameter 6 in (15 cm), depth 820 ft (250 m), casing length unknown.

INSTRUMENTATION.--Tape measured. Measuring point: Top of 4 in (10 cm) casing, 1.56 ft (0.47 m) above land-surface datum.

DATUM.--Altitude of land-surface is 9 ft (2.7 m) from topographic map.

PERIOD OF RECORD.--February 1968 (annually); July 1978 to current year (bimonthly). (Prior to October 1981, published as Richard Hall Well near Mary Esther.)

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.00 ft (4.57 m) NGVD Feb. 29, 1968; lowest measured, -45.13 ft (-13.76 m) NGVD, July 27, 1982.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 20...	1010	-42.28	MAY 04...	1445	-40.79
JAN 20...	1550	-38.38	JUL 27...	1650	-45.13
MAR 23...	1510	-36.44	SEP 00...	1005	-45.01

WELL NUMBER.--302442086394001. Town of Mary Esther Well Number 2 at Mary Esther, FL.

LOCATION.--Lat 30°24'42", long 86°39'40", in NE¼NW¼SW¼ sec.16, T.2 S., R.24 W., Hydrologic Unit 30140105, at end of street, 0.3 mi (0.5 km) east of water tower, 0.8 mi (1.3 km) north of U.S. Highway 98 at Mary Esther.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, public-supply, artesian well, diameter unknown, depth 764 ft (233 m), cased to 595 ft (181 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of hole in pump base, 1.5 ft (0.46 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 20 ft (6.1 m), from topographic map.

PERIOD OF RECORD ELEVATIONS.--February 1968, July 1974 (annually); March 1975 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

PERIOD OF RECORD WATER QUALITY.--March 1975 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, -36.44 ft (-11.11 m) NGVD, Mar. 10, 1975; lowest measured, -83.12 ft (-25.33 m) NGVD, Sept. 21, 1978.

ELEVATION, CONDUCTANCE, TEMPERATURE AND CHLORIDE DATA, OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 20...	0950	--	500	--	57	JUL 27...	1600	--	558	--	57
NOV 20...	0945	-68.63	--	--	--	JUL 27...	1615	-73.70	--	--	--
JAN 20...	1540	-64.09	540	--	58	SEP 15...	1030	--	610	--	58
MAR 23...	1455	-69.35	530	--	58	SEP 15...	1045	-71.94	--	--	--
MAY 04...	1505	-75.18	550	--	60						

OKALOOSA COUNTY

WELL NUMBER.--302529086380503. City of Fort Walton Beach Cemetary Well at Fort Walton Beach, FL.

LOCATION.--Lat 30°25'29", long 86°38'05", in NE¼NE¼SE¼ sec.10, T.1 S., R.24 W., Hydrologic Unit 03140102, at Memorial Cemetary in Fort Walton Beach.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, test, artesian well, diameter 6 in (15 cm) 0-253 ft (0-77 m), 4 in (10 cm) 253-1015 ft (77-309 m), depth 1149 ft (350 m), cased to 1015 ft (309 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 1.45 ft (0.44 m) above land-surface datum.

DATUM.--Land-surface datum is 34.86 ft (10.63 m) National Geodetic Vertical Datum of 1929 (levels by Northwest Florida Water Management District).

PERIOD OF RECORD.--December 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.80 ft (2.38 m) NGVD, Mar. 18, 1981; lowest, 2.37 ft (0.72 m) NGVD, Sept. 23, 1982.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.94	2.87	3.10	4.08	4.84	5.71	6.01	5.32	4.05	2.73	2.60	2.54
10	2.94	2.90	3.33	4.16	4.95	5.51	5.75	5.21	3.68	2.65	2.57	2.60
15	2.73	2.98	3.77	4.37	5.11	5.75	5.76	4.97	3.44	2.56	2.68	2.49
20	2.52	3.19	3.44	4.41	5.34	5.84	5.69	4.68	3.39	2.58	2.59	2.61
25	2.90	3.11	3.91	4.55	5.31	5.95	5.79	4.47	3.03	2.55	2.55	2.53
EOM	2.57	3.44	4.21	4.89	5.37	5.66	5.46	4.25	2.83	2.58	2.49	2.39
MEAN	2.81	2.98	3.61	4.40	5.13	5.68	5.71	4.89	3.50	2.62	2.61	2.53
MAX	3.12	3.44	4.21	4.89	5.48	5.98	6.01	5.45	4.23	2.81	2.74	2.64
MIN	2.52	2.61	3.10	4.04	4.69	5.29	5.39	4.25	2.83	2.53	2.49	2.37
WTR YR 1982	MEAN	3.86	MAX	6.01	APR 5	MIN	2.37	SEP 23				

WELL NUMBER.--302609086375401. Okaloosa County School Board Well at Wright, FL.

LOCATION.--Lat 30°26'09", long 86°37'54", in SE¼SE¼SE¼ sec.3, T.2 S., R.24 W., Hydrologic Unit 03140105, at Wright Elementary School at Fort Walton Beach.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 8 to 4 in (20 to 10 cm), depth 640 ft (195 m), cased to 473 ft (144 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of plywood floor, 1.10 ft (0.36 m) above land-surface datum. June 24, 1975 to April 29, 1976, water-level recorder at same site and datum.

DATUM.--Land-surface datum is 20.82 ft (6.35 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--June 1975 to April 1976; April 1976 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level, -34.30 ft (-10.46 m) NGVD, Mar. 5, 1976; lowest measured, -66.49 ft (-20.27 m) NGVD, July 15, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 19...	0820	-56.68	MAY 05...	0830	-62.78
JAN 20...	1530	-53.74	JUL 28...	1050	-63.77
MAR 23...	1420	-54.38	SEP 15...	1145	-64.27

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

OKALOOSA COUNTY

WELL NUMBER.--302711086251402. Local Number 24. U.S. Air Force Well near Villa Tasso, FL.

LOCATION.--Lat 30°27'11", long 86°25'14", SE¼SE¼NW¼ sec 35, T.1 S., R.22 W., Hydrologic Unit 03140102, at White Point Housing area behind Bldg. T-1628 near Villa Tasso.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, public supply, artesian well, diameter 4 in (10 cm), depth 425 ft (130 m), casing length unknown.

INSTRUMENTATION.--Tape measured. Measuring point: Top of steel plate, 0.50 ft (0.15 m) below land-surface datum.

DATUM.--Altitude of land-surface datum is 10 ft (3.0 m), from topographic map.

PERIOD OF RECORD ELEVATIONS.--September 1977 to current year (bimonthly).

PERIOD OF RECORD WATER QUALITY.--October 1977 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, -3.02 ft (-0.92 m) NGVD, Mar. 9, 1978; lowest measured, -24.00 ft (-7.32 m) NGVD, July 25, 28, 1982.

EXTREMES OUTSIDE PERIOD OF RECORD.--Water level of 25 ft (7.62 m) NGVD reported by driller, May 17, 1957.

ELEVATION, CONDUCTANCE, TEMPERATURE AND CHLORIDE DATA, OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 19...	0925	-19.26	1100	--	270	JUL 25...	1320	-24.00	--	--	--
JAN 20...	1230	-17.82	930	--	200	JUL 28...	1320	-24.00	124	--	300
MAR 23...	1150	-14.97	1220	--	290	SEP 15...	1430	-22.78	--	--	340
MAY 05...	1150	-17.50	1100	--	250						

WELL NUMBER.--302739086364801. City Well Number 6 at Fort Walton Beach, FL.

LOCATION.--Lat 30°27'39", long 86°36'48", in SE¼NE¼NE¼ sec.35, T.1 S., R.24 W., Hydrologic Unit 03140102, near 18th green of Fort Walton Beach golf course, 0.2 mi (0.3 km) south of State Highway 189, and about 3 mi (5 km) north of Fort Walton Beach.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, public-supply, artesian well, diameter 24 in (61 cm), depth 750 ft (229 m), cased to 500 ft (152 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of hole in pump base, 1.5 ft (0.5 m) above land-surface datum.

DATUM.--Land-surface datum is 36.04 ft (10.98 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD ELEVATIONS.--February to July 1966 (semiannually); July 1974 (annually); March 1975 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

PERIOD OF RECORD WATER QUALITY.--1977 (semiannually); May 1978 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.17 ft (0.66 m) NGVD, Feb. 7, 1966; lowest measured, -70.49 ft (-21.49 m) NGVD, Sept. 5, 1982.

EXTREMES OUTSIDE PERIOD OF RECORD.--Water-level reported by driller as 39 ft (12 m) NGVD in March 1962, day unknown.

ELEVATION, CHLORIDE, CONDUCTANCE AND TEMPERATURE DATA, OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 18...	1540	-61.38	360	--	27	MAY 05...	0900	--	350	--	20
JAN 10...	1330	-55.29	--	--	--	JUL 28...	1120	-68.78	--	--	--
MAR 06...	1000	-53.99	--	--	--	JUL 28...	1140	--	358	--	22
MAR 22...	1320	--	330	--	20	SEP 05...	0650	-70.49	--	--	--
MAY 01...	0732	-60.29	--	--	--	SEP 15...	1205	--	--	--	29

OKALOOSA COUNTY

WELL NUMBER.--302747086382001. USGS Observation Well at Wright, FL.

LOCATION.--Lat 30°27'47", long 86°38'20", in NE¼NE¼NW¼ sec.34, T.1 S., R.24 W., Hydrologic Unit 03140102, 200 ft (61 m) west of North Beal Street, 0.4 mi (0.6 km) north of intersection of North Beal Street and State Highway 189, and about 3 mi (5 km) north of Fort Walton Beach.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, test, artesian well, diameter 10 in (25 cm), depth 858 ft (262 m), cased to 503 ft (153 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 3.12 ft (0.95 m) above land-surface datum. Prior to February 23, 1981, water-level recorder at same site and datum.

DATUM.--Land-surface datum is 57.67 ft (17.58 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--August 1966 to February 1981; March 1981 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 12.60 ft (3.84 m) NGVD, Feb. 5, 1967 estimated; lowest measured, -69.11 ft (-21.06 m) NGVD, July 28, 1982.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 18...	1600	-48.21	MAY 05...	0845	-54.51
JAN 20...	1510	-44.33	JUL 28...	1105	-69.11
MAR 23...	1405	-42.86	SEP 15...	1155	-53.21

WELL NUMBER.--302747086382002. USGS Observation Well at Wright, FL.

LOCATION.--Lat 30°27'47", long 86°38'20", in NE¼NE¼NW¼ sec.34, T.1 S., R.24 W., Hydrologic Unit 03140102, 200 ft (61.0 m) west of North Beal Street, 0.4 mi (0.6 km) north of intersection of North Beal Street and State Highway 189, and about 3 mi (5 km) north of Fort Walton Beach.

AQUIFER.--Northwestern Floridan sand-and-gravel aquifer of the Tertiary System, Geologic Unit 120 NFSG.

WELL CHARACTERISTICS.--Drilled, test, observation well, diameter 2 in (5.1 cm), depth 38 ft (12 m), cased to 23 ft (7 m), screened from 23 to 38 ft (7 to 12 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 0.50 (0.15 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 58 ft (18 m), from topographic map.

PERIOD OF RECORD.--July 1977 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 56.12 ft (17.10 m) NGVD, Mar. 9, 1978; lowest measured, 52.05 ft (15.86 m) NGVD, July 26, 1977.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 18...	1605	53.26	MAY 05...	0850	53.34
JAN 20...	1515	54.48	JUL 28...	1110	54.90
MAR 23...	1410	54.60	SEP 15...	1200	54.28

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

OKALOOSA COUNTY

WELL NUMBER.--302857086285201. U.S. Air Force Postil Point Well, near Niceville, FL.

LOCATION.--Lat 30°28'57", long 86°28'52", in NW¼NE¼SE¼ sec.19, T.1 S., R.22 W., Hydrologic Unit 03140102, at Postil Point on Eglin Air Force Base, behind Eglin Kindergarten School, and about 3 mi (5 km) south of Niceville.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 6 in (15 cm), depth 508 ft (155 m), cased to 300 ft (91 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of reducer, 2.30 ft (0.70 m) above land-surface datum.

DATUM.--Land-surface datum is 7.54 ft (2.30 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--September 1947 to July 1964 (bimonthly); January 1965 to May 1970 (semiannually); January 1971, July 1974 (annually); January 1975 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 37.74 ft (11.50 m) NGVD, Sept. 3, 1947; lowest measured, -43.66 ft (-13.31 m) NGVD, June 17, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 18...	1400	-36.44	MAY 05...	1045	-38.13
JAN 20...	1315	-31.63	JUL 28...	1305	-40.94
MAR 23...	1210	-32.05	SEP 15...	1335	-38.83

WELL NUMBER.--302857086310701. U.S. Air Force Hardstand Tower Well near Valpariso, FL.

LOCATION.--Lat 30°28'57", long 86°31'07", in NW¼NW¼SE¼ sec.23, T.1 S., R.23 W., Hydrologic Unit 03140102, on Eglin Air Force Base about 1.5 mi (2.4 km) south of Valpariso.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, public-supply, artesian well, diameter 8 in (20 cm), depth 702 ft (214 m), cased to 404 ft (123 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of hole in steel plate, 1.0 ft (0.3 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 66 ft (20 m) from topographic map.

PERIOD OF RECORD.--March 1978 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, -22.0 ft (-6.7 m) NGVD, Mar. 7, 1978; lowest measured, -54.45 ft (-16.60 m) NGVD, July 16, 1980.

EXTREMES OUTSIDE PERIOD OF RECORD.--Water level reported as 20.5 ft (6.2 m) NGVD by driller in January 1958.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 18...	1410	-39.40	MAY 05...	1105	-44.50
JAN 20...	1330	-33.79	JUL 28...	1250	-44.90
MAR 23...	1225	-36.80			

OKALOOSA COUNTY

WELL NUMBER.--303021086351601. U.S. Air Force Field 4 Well near Fort Walton Beach, FL.

LOCATION.--Lat 30°30'21", long 86°35'16", in NE¼NE¼NW¼ sec.18, T.1 S., R.23 W., Hydrologic Unit 03140102, at auxiliary field 4, about 6 mi (9.7 km) north of Fort Walton Beach.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, public-supply, artesian well, diameter 10 in (25 cm), depth 591 ft (180 m), cased to 442 ft (135 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 1 in (2.5 cm) hole in pump base, 1.0 ft (0.3 m) above land-surface datum. Prior to March 1978, measuring point: Top of tee, 1.3 ft (0.4 m) above land-surface datum.

DATUM.--Land-surface datum is 89.33 ft (27.23 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--Jan. 1948 to Sept. 1967 (bimonthly); March 1978 (annually); Jan. to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 65.33 ft (19.91 m) NGVD, Apr. 14, 1948; lowest measured, -19.87 ft (-6.06 m) NGVD, Nov. 19, 1980.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 18...	1425	-15.87	MAY 05...	0915	-19.39
JAN 20...	1350	-12.52	SEP 15...	1220	-17.80
MAR 23...	1240	-11.89			

WELL NUMBER.--303021086351603. U.S. Air Force Field 4 Deep Well near Fort Walton Beach, FL.

LOCATION.--Lat. 30°30'21", long 86°35'16", in NE¼NE¼NW¼ sec.18, T.1 S., R.23 W., Hydrologic Unit 03140102, at auxiliary field 4, about 6 mi (9.7 km) north of Fort Walton Beach.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, test, artesian well, diameter 4 in (10 cm), depth 1380 ft (421 m), cased to 938 ft (286 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of plywood shelf, 0.3 ft (0.1 m) above land-surface datum. Prior to July 1981, water-level recorder at same site and datum.

DATUM.--Altitude of land-surface datum is 88 ft (27 m), from topographic map.

PERIOD OF RECORD.--December 1980 to July 1981; July 1981 to current year (bimonthly). Records of water levels prior to July 1981 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, -7.20 ft (-2.19 m) NGVD, Mar. 19, 1981; lowest measured -18.50 ft (-5.64 m) July 28, 1982.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
DEC 02...	1215	-10.15	MAY 13...	1550	-14.48
JAN 22...	1105	-8.05	JUL 15...	1325	-18.26
MAR 19...	1310	-7.20			

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
JUL 28...	1140	-18.50	SEP 15...	1225	-17.92

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

OKALOOSA COUNTY

WELL NUMBER.--303314086453702. U.S. Air Force Metts Tower Well near Fort Walton Beach, FL.

LOCATION.--Lat 30°33'14", long 86°45'37", in SW¼SW¼SE¼ sec.28, T.1 N., R.25 W., Hydrologic Unit 03140103, at Metts Tower on Eglin Air Force Base about 10 mi (16 km) northwest of Fort Walton Beach.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, diameter 4 in (10 cm), depth 796 ft (243 m), cased to 600 ft (183 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of sanitary seal, 0.5 ft (0.15 m) below land-surface datum.

DATUM.--Altitude of land-surface datum is 195 ft (59 m) from topographic map.

PERIOD OF RECORD.--April 1978 (annually); Nov. 1978 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 36.75 ft (11.20 m) NGVD, Mar. 11, 1979; lowest measured, 28.59 ft (8.71 m) NGVD, July 28, 1982.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 18...	1515	29.40	MAY 05...	1005	30.57
JAN 20...	1425	29.97	JUL 28...	1220	28.59
MAR 23...	1320	30.30	SEP 15...	1300	28.65

WELL NUMBER.--303512086375101. Local Number 29. U.S. Air Force Observation Well near Fort Walton Beach, FL.

LOCATION.--Lat 30°35'12", long 86°37'51", in NW¼NE¼SE¼ sec.15, T.1 N., R.24 W., Hydrologic Unit 03140102, at U.S.A.F. Field 5, 6.4 mi (10.3 km) southwest of State Highway 85, 8.3 mi (13.4 km) north of State Highway 189, and 14 mi (23 km) north of Fort Walton Beach.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, public-supply, artesian well, diameter 10 in (25 cm), depth 710 ft (216 m), cased to 524 ft (160 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 1.06 ft (0.32 m) above land-surface datum. Prior to May 6, 1966 tape measured. Measuring point: Top of concrete pump base, 0.75 ft (0.23 m) above land-surface datum.

DATUM.--Land-surface datum is 178.03 ft (54.26 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--October 1947 to May 1966 (bimonthly); May 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 78.23 ft (23.84 m) NGVD, Oct. 28, 1947; lowest, 13.93 ft (4.25 m) NGVD, July 16, 1982.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.90	14.59	15.10	16.20	17.18	18.05	18.26	17.46	15.77	14.12	14.20	14.25
10	15.21	14.70	15.35	16.40	17.38	17.99	17.95	17.30	15.39	13.96	14.14	14.28
15	14.90	14.70	15.67	16.66	17.59	18.15	17.93	17.02	15.14	13.94	14.34	14.23
20	14.65	14.79	15.57	16.73	17.75	18.20	17.79	16.67	14.90	14.04	14.23	14.26
25	14.90	14.95	15.96	16.88	17.72	18.29	16.93	16.44	14.55	13.95	14.28	14.26
EOM	14.43	15.21	16.18	17.10	17.73	18.05	17.53	16.06	14.33	14.13	14.22	14.07
MEAN	14.96	14.74	15.60	16.63	17.51	18.08	17.80	16.91	15.12	14.04	14.26	14.22
MAX	15.56	15.21	16.18	17.10	17.86	18.35	18.26	17.52	16.03	14.32	14.37	14.30
MIN	14.43	14.48	15.10	16.18	16.90	17.74	16.93	16.06	14.33	13.93	14.14	14.07
WTR YR 1982	MEAN	15.81	MAX	18.35	MAR 24	MIN	13.93	JUL 16				

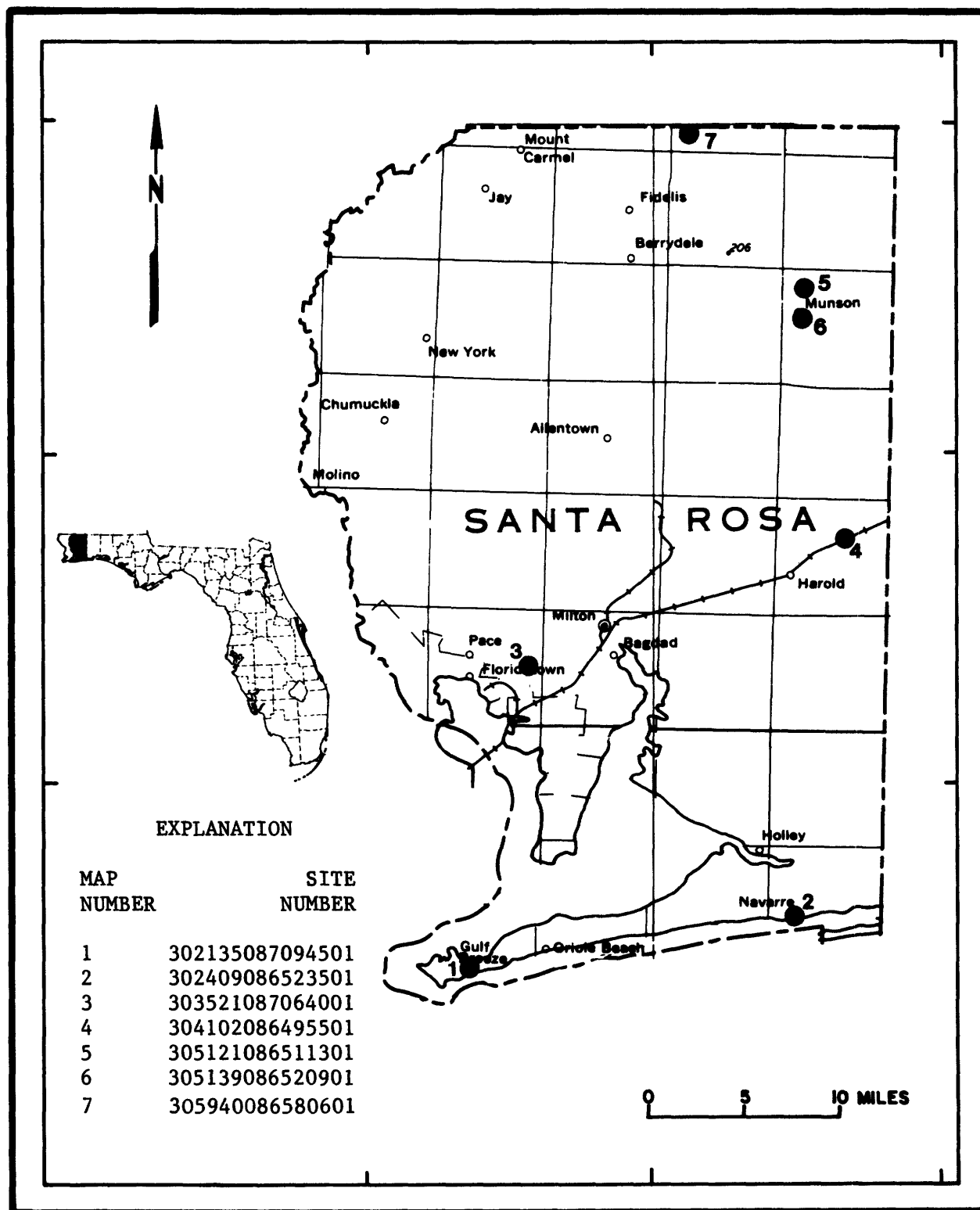


Figure 33. Location of wells in Santa Rosa County

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

SANTA ROSA COUNTY

WELL NUMBER.--302135087094501. Local number 102. USGS Observation Well at Gulf Breeze, FL.

LOCATION.--Lat 30°21'35", long 87°09'45", in NE¼SW¼SE¼ sec.4, T.3 S., R.29 W., Hydrologic Unit 03140105, south of McClure Drive, 0.25 mi (0.40 km) north of U.S. Highway 98 and McClure Drive intersection at Gulf Breeze.

AQUIFER.--Sand aquifer of Pleistocene age, Geologic Unit 112 SAND.

WELL CHARACTERISTICS.--Drilled, observation, water-table well, diameter 6 in (15 cm), depth 41 ft (12 m), cased to 31 ft (9 m), screened from 31 to 41 ft (9 to 12 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of cap, 1.09 ft (0.33 m) below land-surface datum. Prior to July 1979, measuring point: Top of casing, 3.00 ft (0.91 m) above land-surface datum. May 29, 1951 to September 10, 1964 water-level recorder at same site and datum.

DATUM.--Land-surface datum is 11.56 ft (3.52 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--August 1950 to May 1951 (weekly); May 1951 to September 1964; May 1965 to May 1971 (annually); January 1972 to November 1975 (semiannually); December 1975 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.14 ft (3.09 m) NGVD, Nov. 15, 1975; lowest, 0.98 ft (0.30 m) NGVD, Jan. 17, 1955.

ELEVATION, IN FEET NGVD, OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 20...	1210	4.91	JUL 27...	1440	5.26
MAR 25...	1015	7.30	SEP 14...	1555	5.72
JUN 03...	1000	5.62			

WELL NUMBER.--302409086523501. Louis Woodham Cement Plant Well at Navarre, FL.

LOCATION.--Lat 30°24'09", long 86°52'35", in NE¼NE¼SW¼ sec.20, T.2 S., R.26 W., Hydrologic Unit 03140105, 200 ft (61 m) west of intersection of State Highway 87 and U.S. Highway 98, and 450 ft (137 m) north of U.S. Highway 98 at Navarre.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, industrial, artesian well, diameter 3 in (8 cm), depth 940 ft (286 m), cased to 800 ft (244 m).

INSTRUMENTATION.--Tape measured. Reference point: Top of hole in casing, 0.38 ft (0.12 m) below land-surface datum. Prior to May 1975, measuring point: Top of reducer coupling at land surface datum.

DATUM.--Altitude of land-surface datum is 20 ft (6.1 m), from topographic map.

PERIOD OF RECORD.--March 1961, July 1966 (annually); November 1966 to May 1968 (bimonthly); May 1969 to May 1974 (semiannually); January 1975 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 60.0 ft (18.3 m) NGVD, Mar. 1, 1961; lowest measured, -7.84 ft (-2.39 m) NGVD, July 27, 1982.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 20...	1045	-2.67	MAY 26...	1635	-5.52
JAN 19...	1735	-2.62	JUL 27...	1515	-7.84
MAR 25...	0950	-0.88	SEP 14...	1705	-6.08

SANTA ROSA COUNTY

WELL NUMBER.--303521087064001. Local number 035-706-1. USGS Observation Well near Milton, FL.

LOCATION.--Lat 30°35'21", long 87°06'40", in SW¼SE¼SW¼ sec.13, T.1 N., R.29 W., Hydrologic Unit 03140104, 0.9 mi (1.4 km) south of U.S. Highway 90, 2.25 mi (3.62 km) west of intersection of U.S. Highway 90 and State Highway 191A, and 4.9 mi (7.9 km) southwest of Milton.

AQUIFER.--Northwestern Florida sand-and-gravel aquifer of the Tertiary System, Geologic Unit 120 NFSG.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in (10 cm), depth 211 ft (64 m), cased to 206 ft (63 m), screened from 206 to 211 ft (63 to 64 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 3.00 ft (0.91 m) above land-surface datum. Prior to October 30, 1962 water-level recorder at same site and datum.

DATUM.--Land-surface datum is 127.28 ft (38.98 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--July 1959 to October 1962; November 1962 to February 1967 (monthly); July 1967 to May 1968 (bimonthly); January 1969 to May 1971 (semiannually); January 1972 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 45.31 ft (13.81 m) NGVD, Aug. 26, 27, 1961; lowest measured, 28.44 ft (8.67 m) NGVD, July 9, 1969.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
DEC			JUN		
16...	1630	34.09	02...	1546	33.57
FEB			JUL		
10...	1640	33.66	20...	1620	33.56
APR			SEP		
06...	1650	33.39	08...	1240	33.37

WELL NUMBER.--304102086495501. Local number 041-649-1. USGS Observation Well at Floridale, FL.

LOCATION.--Lat 30°41'02", long 86°49'55", in NE¼NW¼NE¼ sec.15, T.2 N., R.26 W., Hydrologic Unit 03140103, 22 ft (7 m) north of U.S. Highway 90, 0.3 mi (0.5 km) east of town of Floridale, and 3.3 mi (5.3 km) east of Harold.

AQUIFER.--Northwestern Florida sand-and-gravel aquifer of the Tertiary System, Geologic Unit 120 NFSG.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in (10 cm), depth 98 ft (30 m), cased to 93 ft (28 m), screened from 93 to 98 ft (28 to 30 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of coupling, 3.05 ft (0.93 m) above land-surface datum. Prior to September 20, 1962 water-level recorder at same site and datum.

DATUM.--Land-surface datum is 155.76 ft (47.48 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--August 1959 to September 1962; September 1962 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 105.04 ft (32.02 m) NGVD, Jan. 17, 1976; lowest measured, 82.46 ft (25.13 m) NGVD, May 6, 1969.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
DEC			JUN		
18...	1035	93.04	02...	1330	91.90
FEB			SEP		
03...	1340	92.13	10...	1230	91.59
APR					
06...	1250	91.65			
09...	1247	91.65			

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

SANTA ROSA COUNTY

WELL NUMBER.--305121086511301. Local Number Jay 3. U.S. Geological Survey Observation Well near Munson, FL.

LOCATION.--Lat 30°51'21", long 86°51'13", in SW¼NW¼NW¼ sec. 16, T.4 N., R.16 W., Hydrologic Unit 03140104, about 50 ft (15 m) north of State Highway 4, 1.15 mi (1.85 km) east of intersection of State Highways 191 and 4 at Munson.

AQUIFER.--Northwestern Florida sand-and-gravel aquifer of the Tertiary System, Geologic Unit 120 NFSG.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 4 in (10 cm), depth 46 ft (14 m), cased to 41 ft (12 m), screened from 41 to 46 ft (12 to 14 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 4 in (10 cm) casing, 2.6 ft (0.8 m) above land-surface datum.

DATUM.--Land-surface datum is 99.88 ft (30.44 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--July 1978 (annually); November 1978 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 97.34 ft (29.67 m) NGVD, July 26, 1978; lowest measured 94.58 ft (28.83 m) Nov. 20, 1981.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 20...	1620	94.58	MAY 26...	1120	94.95
JAN 19...	1330	94.94	JUL 27...	1140	94.79
MAR 25...	1355	95.36	SEP 14...	1125	95.06

WELL NUMBER.--305139086520901. Local Number Jay 4. Florida Forest Service Well at Munson, FL.

LOCATION.--Lat 30°51'39", long 86°52'09", in SW¼SW¼SW¼ sec. 8, T.4 N., R.26 W., Hydrologic Unit 03140104, 0.24 mi (0.38 m) north of State Road 4 at Munson Nursery at Munson.

AQUIFER.--Northwestern Florida sand-and-gravel aquifer of the Tertiary System, Geologic Unit 120 NFSG.

WELL CHARACTERISTICS.--Drilled, irrigation well, diameter 18 to 8 in (46 to 20 cm), depth 445 ft (136 m), cased to 385 ft (117 m), screened from 385 to 435 ft (117 to 133 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 1 in (2 cm) nipple in pump base, 2.00 ft (0.61 m) above land-surface datum.

DATUM.--Land-surface datum is 215.30 ft (65.62 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--July 1978 to September 1981 (bimonthly); January 1982 (annually).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 70.34 ft (21.44 m) NGVD, May 9, 1979; lowest measured, 52.97 ft (16.14 m) NGVD, Jan. 21, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Water level of 103.3 ft (31.5 m) NGVD, reported by driller on Apr. 11, 1952.

ELEVATION, IN FEET NGVD, OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
JAN 19...	1335	62.32

SANTA ROSA COUNTY

WELL NUMBER.--305940086580601. Florida Forest Service Observation Well near Jay, FL.

LOCATION.--Lat 30°59'40", long 86°58'06", in NW¼SW¼SW¼ sec.29, T.6 N., R.27 W., Hydrologic Unit 03140104, at Camp Henderson Fire Tower, on clay road 5.4 mi (8.7 km) east of State Highway 87, and 11 mi (18 km) northeast of Jay.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, diameter 4 to 3 in (10 to 8 cm), depth 815 ft (248 m), cased to 510 ft (155 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of cap, 0.80 ft (0.24 m) above land-surface datum.

DATUM.--Altitude of land surface datum is 280 ft (85 m), from topographic map.

PERIOD OF RECORD.--July 1961 (annually); July 1966 to November 1967 (bimonthly); January 1968 to May 1969 (semi-annually); January 1974 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 128.00 ft (39.01 m) NGVD, July 14, 1961; lowest measured, 111.66 ft (34.03 m) NGVD, Sept. 14, 1982.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 20...	1550	111.95	MAY 26...	1200	111.98
MAR 25...	1310	112.20	SEP 14...	1200	111.66

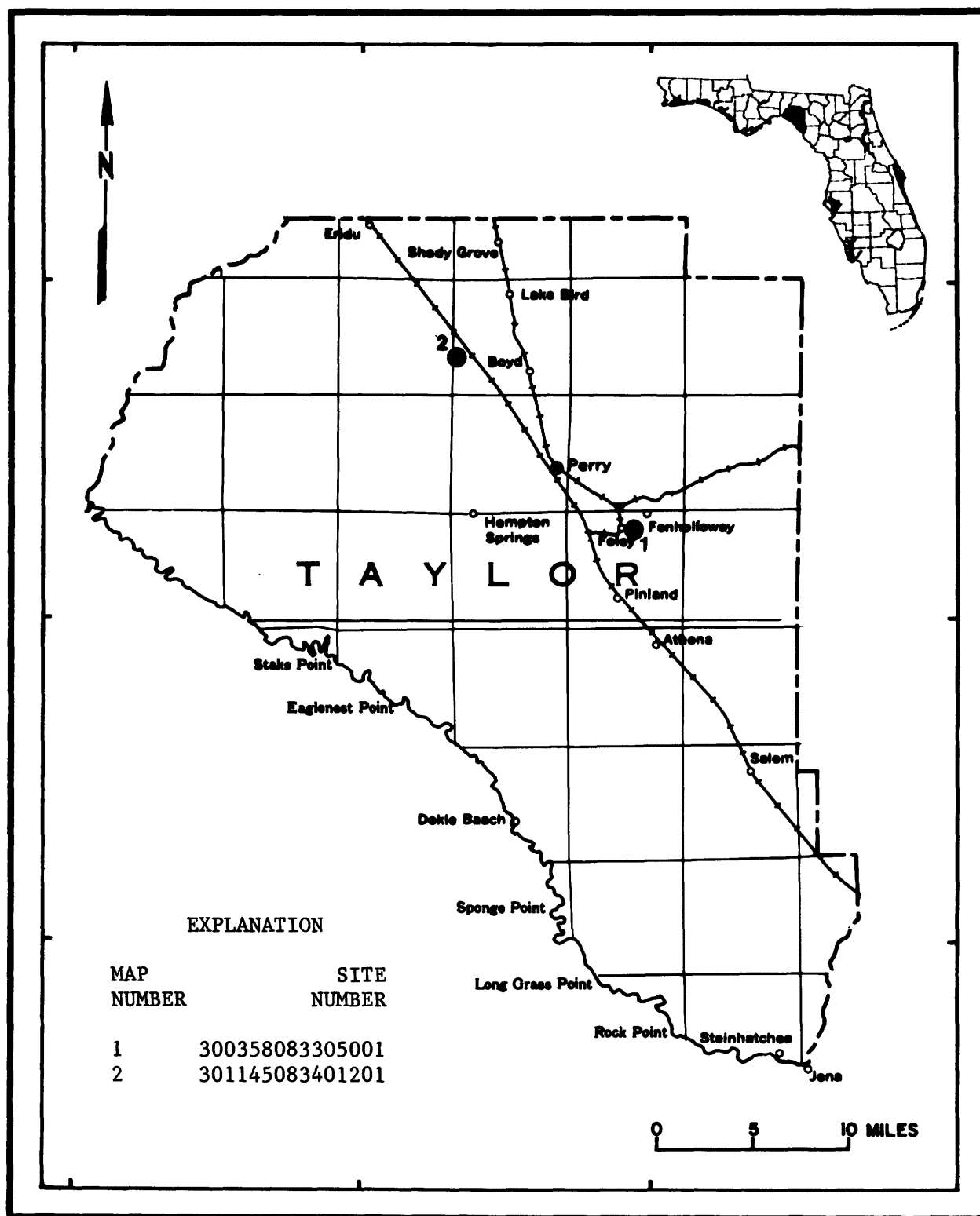


Figure 34. Location of wells in Taylor County

TAYLOR COUNTY

WELL NUMBER.--300358083305001. Local Number Taylor 35. Buckeye Cellulose Corporation Well near Fenholloway, FL.

LOCATION.--Lat 30°03'58", long 83°30'50", in NE¼SE¼NW¼ sec.10, T.5 S., R.8 E., Hydrologic Unit 03110102, 1.5 mi (2.4 km) southwest of Fenholloway and 5.3 mi (8.5 km) southeast of Perry.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 17 to 12 in (43 to 30 cm), depth 230 ft (70 m), cased to 189 ft (58 m).

INSTRUMENTATION.--Water-level recorder. Reference point: Top of recorder shelf, 2.40 ft (0.73 m) above land-surface datum. Prior to April 26, 1976, top of casing at land-surface datum.

DATUM.--Land-surface datum is 54.69 ft (16.67 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--June 1946 to current year.

REMARKS.--Water levels affected by pumping of nearby wells.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 55.38 ft (16.88 m) NGVD, Apr. 2, 1948; lowest, 12.19 ft (3.72 m) NGVD, May 15, 1974.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	22.80	21.25	20.46	20.14	23.57	24.65	26.30	27.81	25.29	29.40	31.58	30.86
10	22.47	21.07	20.42	20.20	23.94	25.03	26.58	27.51	25.03	29.63	31.79	30.72
15	26.64	20.96	20.29	21.37	24.28	25.73	27.81	27.17	24.76	29.63	31.89	42.48
20	22.76	20.85	20.11	22.78	24.55	25.76	28.10	26.75	24.78	29.64	31.68	43.34
25	21.58	20.77	20.43	23.24	24.64	25.98	28.10	26.02	27.58	30.01	31.61	33.04
EOM	21.35	20.65	20.13	23.34	24.60	26.25	27.96	25.65	29.09	31.51	37.87	32.49
MEAN	23.19	20.97	20.37	21.68	24.15	25.50	27.36	26.98	25.86	29.82	32.08	35.32
MAX	29.00	21.32	20.87	23.36	24.66	26.28	28.11	27.93	29.09	31.51	38.03	43.34
MIN	21.35	20.63	20.11	20.08	23.11	24.60	26.18	25.65	24.64	29.19	31.28	30.65
WTR YR 1982	MEAN	26.11	MAX	43.34	SEP 20	MIN	20.08	JAN 2				

WELL NUMBER.--301145083401201. Gibson Still Well near Boyd, FL.

LOCATION.--Lat 30°11'45", long 83°40'12", in NW¼SW¼NW¼ sec.30, T.3 S., R.7 E., Hydrologic Unit 03110102, 1.0 mi (1.6 km) west of U.S. Highway 98, about 4 mi (6.4 km) west of Boyd and 7.6 mi (12.2 km) northwest of Perry.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 8 to 6 in (20 to 15 cm), depth 140 ft (43 m), length of casing unknown.

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 2.4 ft (0.73 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 46 ft (14 m), from topographic map.

REMARKS.--Water levels for periods Dec. 6 to Jan. 5, and Jan. 7 to Feb. 9 were estimated on basis of Econfinia River near Perry (02326000).

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 42.68 ft (13.01 m) NGVD, Dec. 14, 15, 1976; lowest, 36.15 ft (11.02 m) NGVD, July 31, 1977.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	36.99	38.04	38.56	40.20	41.00	41.80	40.88	40.53	41.22	41.76	41.75	40.39
10	36.73	38.28	38.10	40.71	41.28	41.41	42.41	40.11	40.01	41.61	41.73	41.74
15	36.86	38.41	38.10	40.40	41.38	40.97	41.84	39.68	39.43	41.08	41.40	41.43
20	36.59	38.13	38.90	41.95	41.26	40.72	41.36	39.72	40.75	41.34	41.10	41.58
25	36.51	37.81	38.30	41.10	40.88	42.03	41.88	40.69	42.16	41.64	41.57	41.16
EOM	37.79	37.62	38.10	40.20	40.86	41.31	41.11	40.43	41.53	42.48	40.77	40.64
MEAN	36.98	38.05	38.33	40.66	41.11	41.32	41.51	40.19	40.90	41.54	41.54	41.12
MAX	37.79	38.47	38.90	42.00	41.80	42.12	42.43	41.16	42.43	42.56	42.32	41.97
MIN	36.47	37.62	37.86	38.40	40.00	40.64	40.64	39.43	39.32	40.79	40.77	40.22
WTR YR 1982	MEAN	40.26	MAX	42.56	JUL 30	MIN	36.47	OCT 24				

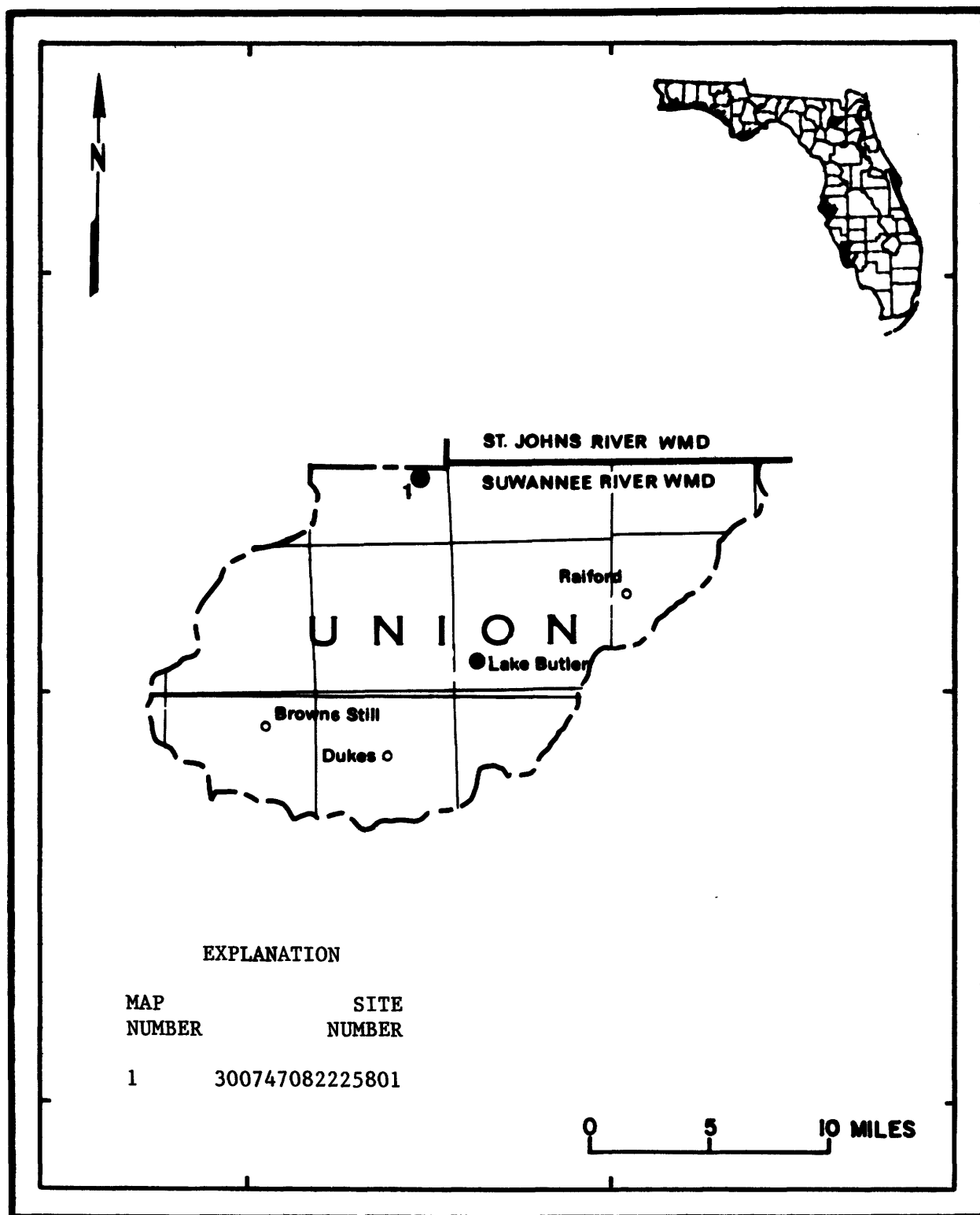


Figure 35. Location of wells in Union County

UNION COUNTY

WELL NUMBER.--300747082225801. USGS Observation Well near Lake Butler, FL.

LOCATION.--Lat 30°07'47", long 82°22'58", in SE¼NW¼SE¼ sec.23, T.4 S., R.19 E., Hydrologic Unit 03110206, about 40 ft (12 m) east of State Highway 231, 0.8 mi (1.4 km) south of Union-Baker county line, and 7.6 mi (12 km) north of Lake Butler.

AQUIFER.--Florida aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, test, artesian well, diameter 8 in (20 cm), depth 724 ft (221 m), cased to 694 ft (212 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 3.07 ft (0.94 m) above land-surface datum.

DATUM.--Land-surface datum is 152.75 ft (46.56 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Water levels for period Feb. 20 to Apr. 20 were estimated from nearby well 301031082381001.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 66.76 ft (20.35 m) NGVD, Mar. 29, 30, 1965; lowest, 53.30 ft (16.25 m) NGVD, Aug. 10, 1981.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	53.74	53.67	53.80	54.05	54.77	55.25	55.75	56.24	55.65	55.44	56.88	56.95
10	53.71	53.75	53.93	54.21	54.95	54.85	56.10	56.21	55.43	55.54	56.85	56.97
15	53.58	53.88	54.06	54.33	54.97	55.20	56.15	56.03	55.31	55.64	57.03	57.03
20	53.40	53.96	53.68	54.49	55.15	55.15	56.38	55.90	55.39	55.86	56.87	57.09
25	53.58	53.85	53.95	54.69	55.15	55.35	56.41	55.80	55.34	56.19	56.98	57.26
EOM	53.41	53.93	54.08	54.81	55.05	55.25	56.30	55.69	55.45	56.62	56.92	57.20
MEAN	53.63	53.77	53.89	54.39	54.99	55.16	56.07	56.01	55.44	55.82	56.93	57.06
MAX	53.98	53.99	54.08	54.81	55.29	55.45	56.43	56.31	55.71	56.62	57.05	57.35
MIN	53.40	53.44	53.68	54.01	54.71	54.85	55.35	55.69	55.31	55.39	56.75	56.88
WTR YR 1982	MEAN	55.26	MAX	57.35	SEP 26	MIN	53.40	OCT 20	AND OTHERS			

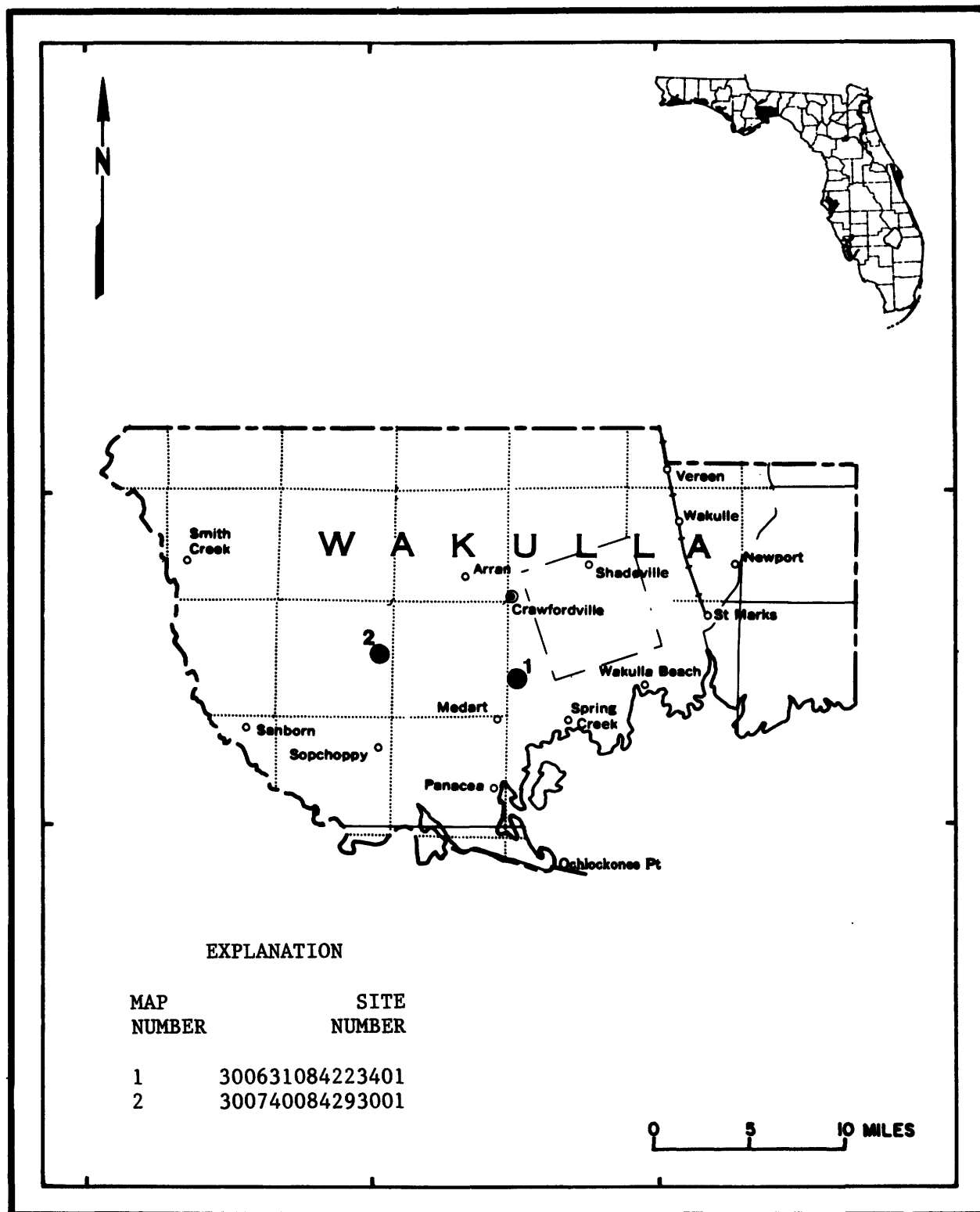


Figure 36. Location of wells in Wakulla County

WAKULLA COUNTY

WELL NUMBER.--300631084223401. Wakulla High Test Well. Wakulla County School Board Well near Medart, FL.

LOCATION.--Lat 30°06'31", long 84°22'34", in Land Grant Number 91 of Hartsfield Survey, Hydrologic Unit 03120001, .25 mi (0.4 km) east of intersection of U.S. 98 and SR 61, 5 mi (8 km) south of Crawfordville.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, test, artesian well, diameter 4 in (10 cm), depth 221 ft (67 m), cased 70 ft (21 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 4 in (10 cm) casing, 0.8 ft (0.2 m) above land-surface datum.

DATUM.--Land-surface datum is 36.15 ft (11.02 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--December 1974 to September 1981 (bimonthly); October 1981 to September 1982.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 7.52 ft (2.29 m) NGVD, Aug. 7, 8, 1982; lowest measured, 3.53 ft (1.08 m) NGVD, Feb. 7, 1978.

ELEVATION, IN FEET NGVD, OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
OCT 21...	1145	5.53	APR 22...	1200	5.02
NOV 13...	1225	5.41	MAY 12...	1235	4.78
DEC 15...	1248	6.97	JUN 22...	1356	6.14
JAN 19...	1330	4.72	JUL 22...	1259	5.73
FEB 23...	1238	4.06	AUG 20...	1130	6.60
MAR 26...	1256	4.47	SEP 22...	1115	5.70

WELL NUMBER.--300740084293001. USGS Observation Well near Crawfordville, FL.

LOCATION.--Lat 30°07'40", long 84°29'30", in NW¼NE¼NW¼ sec.24, T.4 S., R.3 W., Hydrologic Unit 03120003, 400 ft (120 m) east of Sopchoppy River, 6.6 mi (10.6 km) southwest of intersection of Forest Road 365 and State Highway 315, and 7.8 mi (12.6 km) west of Crawfordville.

AQUIFER.--Hawthorn Limestone aquifer of the Miocene System, Geologic Unit 122 HTRNN.

WELL CHARACTERISTICS.--Drilled, bench mark, artesian well, diameter 6 in (15 cm), depth 127 ft (39 m), cased to 121 ft (37 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 2.90 ft (0.88 m) above land-surface datum.

DATUM.--Land-surface datum is 46.91 ft (14.30 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--January 1967 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 36.91 ft (11.25 m) NGVD, July 31, 1975; lowest, 24.42 ft (7.44 m) NGVD, Sept. 14, 1966.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	31.76	31.09	30.90	32.48	33.00	32.68	32.84	32.52	32.64	34.06	34.08	32.77
10	31.57	31.01	30.86	32.53	33.05	33.15	33.94	32.21	32.17	34.24	33.55	33.12
15	31.36	31.09	31.13	32.69	33.10	32.90	33.82	31.92	31.84	34.16	33.48	34.06
20	31.14	31.07	31.46	32.69	33.29	32.62	33.32	32.05	34.28	33.74	33.26	33.46
25	31.19	30.93	31.55	32.57	32.88	32.99	32.90	32.15	34.60	33.99	33.56	33.49
EOM	31.17	30.88	31.93	32.36	32.72	33.18	32.89	32.59	34.41	34.83	33.23	32.93
MEAN	31.42	31.02	31.22	32.54	32.99	32.89	33.28	32.22	33.20	34.09	33.64	33.36
MAX	31.95	31.15	31.93	32.76	33.32	33.23	34.11	32.82	34.63	34.83	34.82	34.27
MIN	31.12	30.86	30.83	32.14	32.33	32.49	32.65	31.82	31.79	33.68	33.23	32.60
WTR YR 1982	MEAN	32.65	MAX	34.83	JUL 31	MIN	30.83	DEC 11	AND OTHERS			

WATER RESOURCES DATA FOR FLORIDA, 1982
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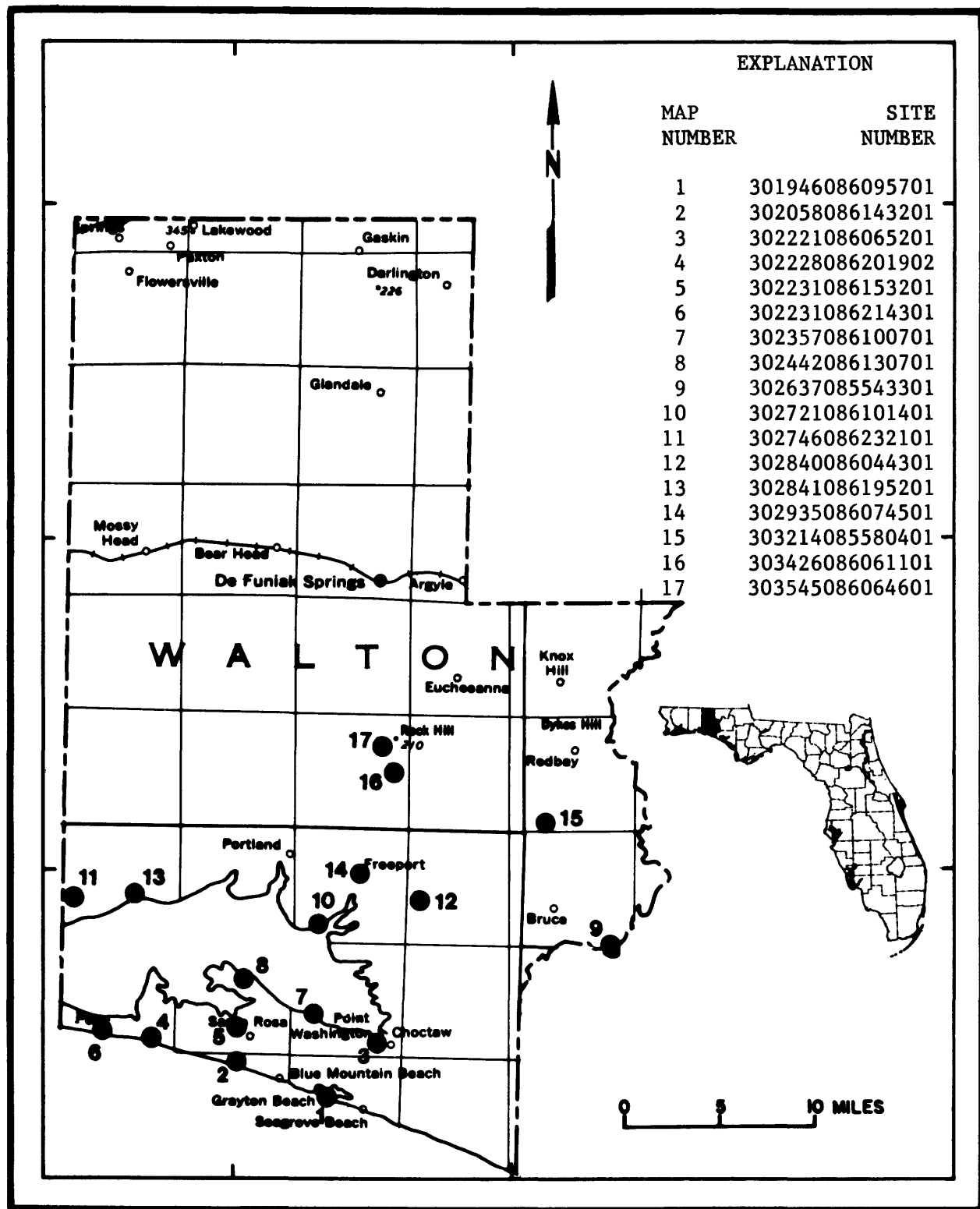


Figure 37. Location of wells in Walton County

WALTON COUNTY

WELL NUMBER.--301946086095701. Van R. Butler Well at Grayton Beach, FL.

LOCATION.--Lat 30°19'46", long 86°09'57", in NW¼NE¼NE¼ sec.17, T.3 S., R.19 W., Hydrologic Unit 03140102, about 300 ft (91 m) north of Gulf of Mexico, 2.2 mi (3.5 km) south of U.S. Highway 98, at Grayton Beach.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, public-supply, artesian well, diameter 4 in (10 cm), depth 466 ft (142 m), cased to 424 ft (129 m).

INSTRUMENTATION.--Pressure gage or tape measured. Measuring point: Top of tee, 1.2 ft (0.37 m) above land-surface datum.

DATUM.--Land-surface datum is 7.46 ft (2.27 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD ELEVATIONS.--April 1961 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

PERIOD OF RECORD WATER QUALITY.--1961-1967 (semiannually); January 1968 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.16 ft (6.75 m) NGVD, May 8, 1964; lowest measured, 3.92 ft (1.20 m) NGVD, Oct. 13, 1972.

ELEVATION, CONDUCTANCE, TEMPERATURE AND CHLORIDE DATA, OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV						MAY					
17...	1300	14.26	1020	24.0	240	24...	1150	13.66	--	25.5	240
JAN						JUL					
26...	1215	14.66	--	--	--	29...	1135	13.06	--	25.5	230
26...	1220	--	--	24.0	240	SEP					
MAR						07...	1435	14.06	1080	25.0	240
11...	1140	14.26	1040	24.5	240						

WELL NUMBER.--302058086143201. Eric Allen Well at Dune Allen Beach, FL.

LOCATION.--Lat 30°20'58", long 86°14'32", in SW¼NE¼SW¼ sec.3, T.3 S., R.20 W., Hydrologic Unit 03140102, south of State Highway 30A near Oyster Lake, 0.8 mi (1.3 km) west of State Highway 393 and 1.9 mi (3.1 km) southwest of Santa Rosa Beach.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, public-supply, artesian well, diameter 4 in (10 cm), depth and casing length unknown.

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing at land-surface datum.

DATUM.--Altitude of land-surface datum is 6 ft (1.8 m) from topographic map.

PERIOD OF RECORD ELEVATIONS.--June 1968 to August 1970 (bimonthly); July 1974 (annually); March 1975 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

PERIOD OF RECORD WATER QUALITY.--May 1975 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.16 ft (0.66 m) NGVD, Mar. 9, 1978; lowest measured, -13.72 ft (-4.18 m) NGVD, July 16, 1980.

ELEVATION, CONDUCTANCE, TEMPERATURE AND CHLORIDE DATA, OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV						MAY					
19...	1215	0.93	274	--	25	04...	1310	0.77	295	--	22
JAN						JUL					
20...	0920	0.13	282	--	19	28...	1525	0.95	295	--	10
MAR						SEP					
23...	1030	-0.93	285	--	11	15...	1700	1.27	283	--	11

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

WALTON COUNTY

WELL NUMBER.--302221086065201. C. H. McGee, Jr. Well at Point Washington, FL.

LOCATION.--Lat 30°22'21", long 86°06'52", in SW¼NE¼SE¼ sec.26, T.2 S., R.19 W., Hydrologic Unit 03140102, 1.4 mi (2.3 km) northeast of intersection of State Highway 395 and U.S. Highway 98 at Point Washington.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 3 in (8 cm), depth 365 ft (111 m), cased to 65 ft (20 m).

INSTRUMENTATION.--Pressure gage or tape measured. Measuring point: Top of reducer, 1.5 ft (0.46 m) above land-surface datum.

DATUM.--Land-surface datum is 2.30 ft (0.70 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD ELEVATIONS.--March 1970 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

PERIOD OF RECORD WATER QUALITY.--July 1961 (annually); January 1962 to May 1967 (semiannually); January 1968 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 17.9 ft (5.5 m) NGVD, Nov. 21, 1975 and Jan. 27, 1976; lowest measured, 5.24 ft (1.60 m) NGVD, Sept. 12, 1972.

ELEVATION, CONDUCTANCE, TEMPERATURE AND CHLORIDE DATA, OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 17...	1235	14.10	910	20.5	230	MAY 24...	1220	14.30	--	23.0	230
JAN 26...	1235	14.60	--	--	--	JUL 29...	1155	14.40	885	21.5	230
MAR 26...	1240	--	--	21.0	230	SEP 07...	1450	14.70	980	21.5	250
MAR 11...	1200	14.70	940	20.0	230						

WELL NUMBER.--302228086201902. Holiday Campground Well near Miramar Beach, FL.

LOCATION.--Lat 30°22'28", long 86°20'19", in NW¼NW¼NE¼ sec. 34, T.2 S., R.21 W., Hydrologic Unit 03140102, 0.2 mi (0.3 km) south of U.S. Highway 98, 3.7 mi (6.0 km) east of Okaloosa-Walton County line, 3.5 mi (5.6 km) east of Miramar Beach.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, public-supply, artesian well, diameter 4 in (10 cm), depth and casing length unknown.

INSTRUMENTATION.--Tape measured. Measuring point: Top of 4 in (10 cm) casing at land-surface datum.

DATUM.--Altitude of land-surface datum is 24 ft (7.3 m) from topographic map.

PERIOD OF RECORD ELEVATIONS.--July 1978 (annually); November 1978 to current year (bimonthly).

PERIOD OF RECORD WATER QUALITY.--1970 (two samples); 1971 (three samples); November 1971 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.71 ft (0.52 m) NGVD, Mar. 16, 1979; lowest measured -11.60 ft (-3.54 m) NGVD, Sept. 15, 1982.

ELEVATION, CONDUCTANCE, TEMPERATURE AND CHLORIDE DATA, OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 19...	1230	-5.70	300	--	16	JUL 28...	1540	-10.10	338	--	17
MAR 23...	1015	-3.93	315	--	17	SEP 15...	1705	-11.60	--	--	--
MAY 04...	1320	-4.66	290	--	26	SEP 15...	1710	--	--	--	18

WALTON COUNTY

WELL NUMBER.--302231086153201. J. R. Holley Well near Santa Rosa Beach, FL.

LOCATION.--Lat 30°22'32", long 86°15'32", in SW¼SW¼SE¼ sec.28, T.2 S., R.20 W., Hydrologic Unit 03140102, behind residence 150 ft (46 m) north of U.S. 98, 1.75 mi (2.81 km) west of Santa Rosa Beach.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, domestic, unused artesian well, diameter 3 in (8 cm), depth 545 ft (166 m) cased to 265 ft (81 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of 2 in (5 cm) nipple, 0.85 ft (0.26 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 12 ft (3.7 m) from topographic map.

PERIOD OF RECORD ELEVATIONS.--May 1971 (annually); July 1978 to current year (bimonthly).

PERIOD OF RECORD WATER QUALITY.--July 1978 to current year.

REMARKS.--Water quality data collected at adjacent well number 302231086153203.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.32 ft (3.15 m) NGVD, Mar. 21, 1979; lowest measured, 8.00 ft (2.44 m) NGVD, May 21, 1970.

ELEVATION, CONDUCTANCE, AND CHLORIDE DATA, OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 19...	1135	8.92	2060	600	MAY 04...	1235	9.86	1800	619
JAN 20...	0935	9.53	2200	600	JUL 29...	1040	9.87	2250	600
MAR 23...	1040	9.70	2150	600	SEP 16...	1300	10.01	--	510

WELL NUMBER.--302231086214301. M. T. Fontarn Well near Miramar Beach, FL.

LOCATION.--Lat 30°22'31", long 86°21'43", in NE¼NW¼NW¼ sec.33, T.2 S., R.21 W., Hydrologic Unit 03140102, at residence behind Sea and Indian Museum, 2.1 mi (3.4 km) east of Okaloosa-Walton county line and 7.2 mi (11.6 km) west of Santa Rosa Beach.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, diameter 4 in (10 cm), depth 420 ft (128 m), cased to 350 ft (107 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing at land-surface datum.

DATUM.--Altitude of land-surface datum is 23 ft (7 m), from topographic map.

PERIOD OF RECORD ELEVATIONS.--June 1968 to September 1970 (bimonthly); July 1974 (annually); March 1975 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

PERIOD OF RECORD WATER QUALITY.--July 1968 to August 1969 (bimonthly); 1970 (two samples); March 1975 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.92 ft (2.41 m) NGVD, June 5, 1968; lowest measured, -18.60 ft (-5.67 m) NGVD, July 29, 1982.

ELEVATION, CONDUCTANCE, TEMPERATURE AND CHLORIDE DATA, OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 19...	1240	-12.75	242	--	11	JUL 29...	1025	-18.60	--	--	--
JAN 20...	0900	-9.45	260	--	11	SEP 29...	1030	--	262	--	11
MAR 23...	1005	-8.84	258	--	10	SEP 15...	1715	-17.03	252	--	11
MAY 04...	1330	-9.97	240	--	23						

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

WALTON COUNTY

WELL NUMBER.--302357086100701. Florida Department of Transportation Well near Santa Rosa Beach, FL.

LOCATION.--Lat 30°23'57", long 86°10'07", in SW¼NW¼NE¼ sec.20, T.2 S., R.19 W., Hydrologic Unit 03140102, near south end of U.S. Highway 331 bridge over Choctawhatchee Bay, 2.4 mi (3.9 km) north of U.S. Highway 98, and 3.8 mi (6.1 km) northeast of Santa Rosa Beach.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, diameter 3 in (8 cm), depth 337 ft (103 m), casing length unknown.

INSTRUMENTATION.--Pressure gage or tape measured. Measuring point: Top of coupling 1.10 ft (0.34 m) above land-surface datum.

DATUM.--Land-surface datum is 5.00 ft (1.52 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD ELEVATIONS.--April 1961 to July 1962, May 1968 to May 1969, April 1970 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

PERIOD OF RECORD WATER QUALITY.--July 1961 (annually); January 1962 to May 1967 (semiannually); January 1968 to July 1969 (bimonthly); June 1970 (annually); 1971 (three samples); November 1971 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.80 ft (6.04 m) NGVD, Feb. 28, 1962; lowest measured, 0.86 ft (0.26 m) NGVD, Oct. 11, 1972.

ELEVATION, CONDUCTANCE, TEMPERATURE AND CHLORIDE DATA, OCTOBER 1980 TO SEPTEMBER 1981

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 17...	1210	12.10	1800	21.0	580	MAY 24...	1240	11.80	--	22.5	570
JAN 26...	1150	12.10	--	--	--	JUL 29...	1110	11.30	2000	23.5	580
JAN 26...	1155	--	--	17.0	570	SEP 07...	1410	11.50	--	24.5	580
MAR 10...	1045	12.30	1970	17.5	570						

WELL NUMBER.--302442086130701. S. L. Matthews Well near Santa Rosa Beach, FL.

LOCATION.--Lat 30°24'42", long 86°13'07", in NE¼SW¼SW¼ sec.14, T.2 S., R.20 W., Hydrologic Unit 03140102, in front of residence 0.9 mi (1.3 km) northeast of SR 393 about 3 mi (5 km) north of Santa Rosa Beach.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, domestic artesian well, diameter 8 in (20 cm), depth 330 ft (101 m), cased to 165 ft (50 m).

INSTRUMENTATION.--Pressure gage or tape measured. Measuring point: Top of 3 in (8 cm) casing, 1.0 ft (0.3 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 5 ft (1.5 m) from topographic map.

PERIOD OF RECORD ELEVATIONS.--September 1969 (annually); July 1978 to current year (bimonthly).

PERIOD OF RECORD WATER QUALITY.--September 1969 (annually); July 1978 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.53 ft (3.21 m) NGVD, Mar. 21, 1979; lowest measured, 7.12 ft (2.17 m) NGVD, July 28, 1982.

ELEVATION, CONDUCTANCE, TEMPERATURE AND CHLORIDE DATA, OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 19...	1120	7.85	2750	--	840	MAY 04...	1205	8.06	2680	--	1040
JAN 20...	0945	7.99	2950	--	860	JUL 28...	1505	--	3050	--	870
MAR 22...	1240	8.56	2900	--	860	JUL 28...	1510	7.12	--	--	--

WALTON COUNTY

WELL NUMBER.--302637085543301. William Wilson Well near Bruce, FL.

LOCATION.--Lat 30°26'37", long 85°54'33", in NE¼SE¼SE¼ sec.35, T.1 N., R.17 W., Hydrologic Unit 03140203, at Cowford Fish Camp, 0.7 mi (1.1 km) south of State Highway 20, and 3.8 mi (6.1 km) southeast of Bruce.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, diameter 3 in (8 cm), depth 196 ft (60 m), cased to 60 ft (18 m).

INSTRUMENTATION.--Pressure gage. Measuring point: Top of reducer, 0.80 ft (0.24 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 16 ft (4.9 m), from topographic map.

PERIOD OF RECORD ELEVATIONS.--June 1968 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

PERIOD OF RECORD WATER QUALITY.--June 1968 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.20 ft (7.99 m) NGVD, Nov. 21, 1975; lowest measured, 16.75 ft (5.10 m) NGVD, Oct. 12, 1972.

ELEVATION, CONDUCTANCE, TEMPERATURE AND CHLORIDE DATA, OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	RIDE, TEMPER- ATURE (DEG C)	CHLO- DIS- SOLVED (MG/L AS CL)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV						MAY					
17...	1450	21.10	104	20.5	2.7	24...	1425	21.60	--	22.0	3.0
JAN						JUL					
26...	1320	22.10	--	20.0	2.7	29...	1235	22.20	110	22.5	3.3
MAR						SEP					
08...	0900	23.00	108	20.5	3.0	07...	1535	22.80	--	23.0	3.2

WELL NUMBER.--302721086101401. Selma Madara Well near Freeport, FL.

LOCATION.--Lat 30°27'21", long 86°10'14", in SW¼NE¼NW¼ sec.32, T.1 S., R.19 W., Hydrologic Unit 03140102, near the west bank at mouth of Bear Creek, and 3.5 mi (5.6 km) southwest of Freeport.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, industrial, artesian well, diameter 12 in (30 cm), depth 250 ft (76 m), cased to 100 ft (30 m).

INSTRUMENTATION.--Pressure gage or tape measured. Measuring point: Top of tee, 2.0 ft (0.6 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 4 ft (1.2 m), from topographic map.

PERIOD OF RECORD ELEVATIONS.--July 1968 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

PERIOD OF RECORD WATER QUALITY.--August 1968 to May 1969 (bimonthly); 1970 (two samples); 1971 (three samples); 1972 (semiannual); January 1973 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.0 ft (5.79 m) NGVD, Mar. 22, 1976; lowest measured, -7.73 ft (-2.36 m) NGVD, Oct. 11, 1972.

EXTREMES OUTSIDE PERIOD OF RECORD.--A water level of 27 ft (11 m) NGVD, was reported by Frank Westendick in 1931, month unknown.

ELEVATION, CONDUCTANCE, TEMPERATURE AND CHLORIDE DATA, OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV						MAY					
17...	1140	--	680	19.5	150	24...	1105	14.00	--	21.5	140
17...	1145	15.10	--	--	--	JUL					
JAN						29...	1030	14.60	665	23.5	120
26...	1120	15.30	--	--	--	SEP					
26...	1125	--	--	17.5	140	07...	1330	13.50	660	23.0	170
MAR											
11...	1300	14.80	690	19.5	150						

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

WALTON COUNTY

WELL NUMBER.--302746086232101. Ray Wright Well at Villa Tasso, FL.

LOCATION.--Lat 30°27'46", long 86°23'21", in SE¼SW¼NW¼ sec. 30, T.1 S., R.21 W., Hydrologic Unit 03140102, 0.5 mi (0.8 km) east of Okaloosa-Walton County line at Villa Tasso Kennels at Villa Tasso.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, diameter 4 in (10 cm), depth 440 ft (134 m), cased to 220 ft (67 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of sanitary seal 1.0 ft (0.3 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 19 ft (5.8 m) from topographic map.

PERIOD OF RECORD ELEVATIONS.--March 1978 to July 1979 (semiannually); November 1980 to current year (bimonthly).

PERIOD OF RECORD WATER QUALITY.--July 1979 (annually); 1981 (semiannually); November 1981 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.75 ft (1.75 m) NGVD, Mar. 29, 1978; lowest measured, -5.50 ft (-1.68 m) NGVD, July 28, 1982.

ELEVATION, CONDUCTANCE, TEMPERATURE AND CHLORIDE DATA, OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 19...	0940	-3.23	220	--	2.6	MAY 05...	1200	-1.19	--	--	2.9
JAN 20...	1220	-1.33	235	--	3.3	JUL 28...	1330	-5.50	240	--	2.5
MAR 23...	1140	-0.10	230	--	2.8	SEP 15...	1440	-5.20	--	--	2.2

WELL NUMBER.--302840086044301. Thomas Miller Well near Freeport, FL.

LOCATION.--Lat 30°28'40", long 86°04'43", in NE¼NE¼NW¼ sec.32, T.1 N., R.18 W., Hydrologic Unit 03140102, at private residence, 2.6 mi (4.2 km) east of intersection of State Highway 20 and U.S. Highway 331, 4.0 mi (6.4 km) east of Freeport.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL DESCRIPTION.--Drilled, domestic, artesian well, diameter 4 in (10 cm), depth 200 ft (61 m), length of casing unknown.

INSTRUMENTATION.--Tape measured. Measuring point: Top of sanitary seal, 1.0 ft (0.3 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 40 ft (12.2 m), from topographic map.

PERIOD OF RECORD ELEVATIONS.--1978 (two measurements); 1979 (three measurements); November 1980 to September 1981 (bimonthly).

PERIOD OF RECORD WATER QUALITY.--1978, 1979 (annually); May 1981 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.71 ft (6.01 m) NGVD, Mar. 15, 1978; lowest measured, 6.62 ft (2.02 m) NGVD, July 11, 1979.

ELEVATION, CONDUCTANCE, TEMPERATURE, AND CHLORIDE DATA, OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 19...	1045	17.35	202	--	2.7	MAY 04...	1115	16.90	--	--	--
JAN 20...	1025	--	210	--	1.9	04...	1120	--	210	--	3.1
MAR 23...	1100	15.50	210	--	2.8	JUL 28...	1425	17.40	210	--	2.6
						SEP 15...	1520	15.61	--	--	2.5

WALTON COUNTY

WELL NUMBER.--302841086195201. R. E. Lalonde Well at Choctaw Beach, FL.

LOCATION.--Lat 30°28'41", long 86°19'52", in SW¼NE¼SE¼ sec.22, T.1 S., R.21 W., Hydrologic Unit 03140102, 75 ft (23 m) north of State Highway 20, 200 ft (61 m) north of wayside park and 1.2 mi (1.9 km) east of Choctaw Beach.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 4 in (10 cm), depth 316 ft (96 m), cased to 132 ft (40 m).

INSTRUMENTATION.--Pressure gage. Measuring point: Top of casing, 2.0 ft (0.61 m) above land-surface datum.

DATUM.--Altitude of land-surface datum is 2 ft (0.6 m), from topographic map.

PERIOD OF RECORD ELEVATIONS.--December 1969, July 1974 (annually); March 1975 to current year (bimonthly). Records of water levels prior to January 1974 are available in the files of the Geological Survey.

PERIOD OF RECORD QUALITY WATER.--May 1975 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.4 ft (4.4 m) NGVD, Mar. 4, 1976; lowest measured, 5.53 ft (1.69 m) NGVD, Sept. 15, 1982.

ELEVATION, CONDUCTANCE, TEMPERATURE AND CHLORIDE DATA, OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 19...	0950	6.27	200	--	2.4	JUL 28...	1400	7.85	218	--	2.3
JAN 20...	1210	7.27	215	--	2.3	SEP 15...	1455	--	--	--	2.2
MAR 23...	1130	8.39	210	--	2.6	SEP 15...	1500	5.53	--	--	--
MAY 05...	1210	7.55	182	--	12						

WELL NUMBER.--302935086074501. Local Number 17. City of Freeport Well at Freeport, FL.

LOCATION.--Lat 30°29'13", long 86°08'12", in SW¼SE¼SW¼ sec.15, T.1 S., R.19 W., Hydrologic Unit 03140102, 81 ft (25 m) east-northeast of Fourmile Creek and 381 ft (116 m) north-northwest of confluence of Fourmile and Lafayette Creek, and 0.4 mi (0.6 km) southeast of City Hall at Freeport.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, artesian well, diameter 8 in (20 cm), depth 187 ft (57 m), casing length unknown.

INSTRUMENTATION.--Pressure gage or tape measured. Measuring point: Top of tee, 3.50 ft (1.07 m) above land-surface datum.

DATUM.--Land-surface datum is 2.70 ft (0.82 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD ELEVATIONS.--September 1947 to October 1963 (bimonthly); June 1969 (annually); September 1974 to current year (bimonthly).

PERIOD OF RECORD WATER QUALITY.--November 1974 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 37.7 ft (11.49 m) NGVD, Sept. 3, 1947; lowest measured, -1.60 ft (-0.49 m) NGVD, June 18, 1969.

ELEVATION, CONDUCTANCE, TEMPERATURE AND CHLORIDE DATA, OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	TEMPER- ATURE (DEG C)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)
NOV 17...	1120	18.50	165	21.5	2.2	MAY 24...	1040	16.80	--	22.5	2.7
JAN 26...	1100	18.80	--	21.5	2.0	JUL 29...	1000	18.20	183	21.5	1.3
MAR 11...	1230	--	170	21.5	2.0	SEP 07...	1305	15.80	185	22.5	1.3

WALTON COUNTY

WELL NUMBER.--303214085580401. Local Number FAF No. 72. First American Farms Well near Bruce, FL.

LOCATION.--Lat 30°32'14", long 85°58'04", in SW¼SE¼NW¼ sec.32, T.2 N., R.17 W., Hydrologic Unit 03140203, about 4 mi (6 km) southwest of Redbay and about 4.5 mi (7.2 km) north of Bruce.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, irrigation, artesian well, diameter 10 in (25 cm), depth 506 ft (154 m), cased to 218 ft (66 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 0.50 ft (0.15 m) above land-surface datum. Prior to November 6, 1970 water-level recorder at same site and datum.

DATUM.--Altitude of land-surface datum is 123 ft (38 m), from topographic map.

PERIOD OF RECORD.--September 1968 to November 1970; November 1970 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORDS.--Highest water level measured, 31.01 ft (9.45 m) NGVD, Nov. 21, 1975; lowest, -51.20 ft (-15.61 m) NGVD, July 13, 1970.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 17...	1330	26.32	MAY 24...	1400	25.27
JAN 26...	0935	27.86	JUL 29...	0855	27.30
MAR 08...	0930	25.95	SEP 07...	0930	21.93

WELL NUMBER.--303426086061101. Local Number FAF No. 2. First American Farms Well near Freeport, FL.

LOCATION.--Lat 30°34'26", long 86°06'11", in NE¼NW¼NW¼ sec. 24, T.1 N., R.19 W., Hydrologic Unit 03140102, 0.2 mi (0.3 km) east of U.S. Highway 331, 1 mi (1.6 km) north of clay road, and 5.5 mi (8.8 km) north of Freeport.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, unused, irrigation, artesian well, diameter 10 in (25 cm), depth 440 ft (134 m), cased to 172 ft (52 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing at land-surface datum. Prior to October 7, 1970 water-level recorder at same site and datum.

DATUM.--Land-surface datum is 153.46 ft (46.78 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--September 1968 to October 1970; November 1970 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.33 ft (12.90 m) NGVD, Nov. 20, 1975; lowest measured, -45.25 ft (-13.79 m) NGVD, Oct. 11, 1972.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 17...	1340	37.96	MAY 24...	1320	35.30
JAN 26...	1030	38.69	JUL 29...	0935	38.44
MAR 08...	1020	37.16	SEP 07...	1225	31.52

WALTON COUNTY

WELL NUMBER.--303545086064601. U.S. Air Force Rock Hill Tower Well at Rock Hill, FL.

LOCATION.--Lat 30°35'45", long 86°06'46", in NE¼NW¼SE¼ sec.11, T. 1 N., R.19 W., Hydrologic Unit 03140102, Rock Hill Tower at Rock Hill, 0.1 mi (0.2 km) north of intersection of U.S. Highway 331 and State Highway 282, and 7 mi (11 km) north of Freeport.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, domestic, artesian well, diameter 4 in (10 cm), depth 440 ft (134 m), cased 248 ft (76 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 0.60 ft (0.18 m) above land-surface datum.

DATUM.--Land-surface datum is 210.50 ft (64.16 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--June 1968 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

REMARKS.--Water levels affected by nearby irrigation pumpage.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 74.72 ft (22.77 m) NGVD, July 29, 1982; lowest measured, -8.22 ft (-2.50 m) NGVD, June 26, 1969.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 17...	1100	72.49	JUN 23...	0925	73.67
JAN 26...	1035	74.18	JUL 29...	0945	74.72
MAR 08...	1030	74.09	SEP 07...	1240	73.43

WATER RESOURCES DATA FOR FLORIDA, 1982
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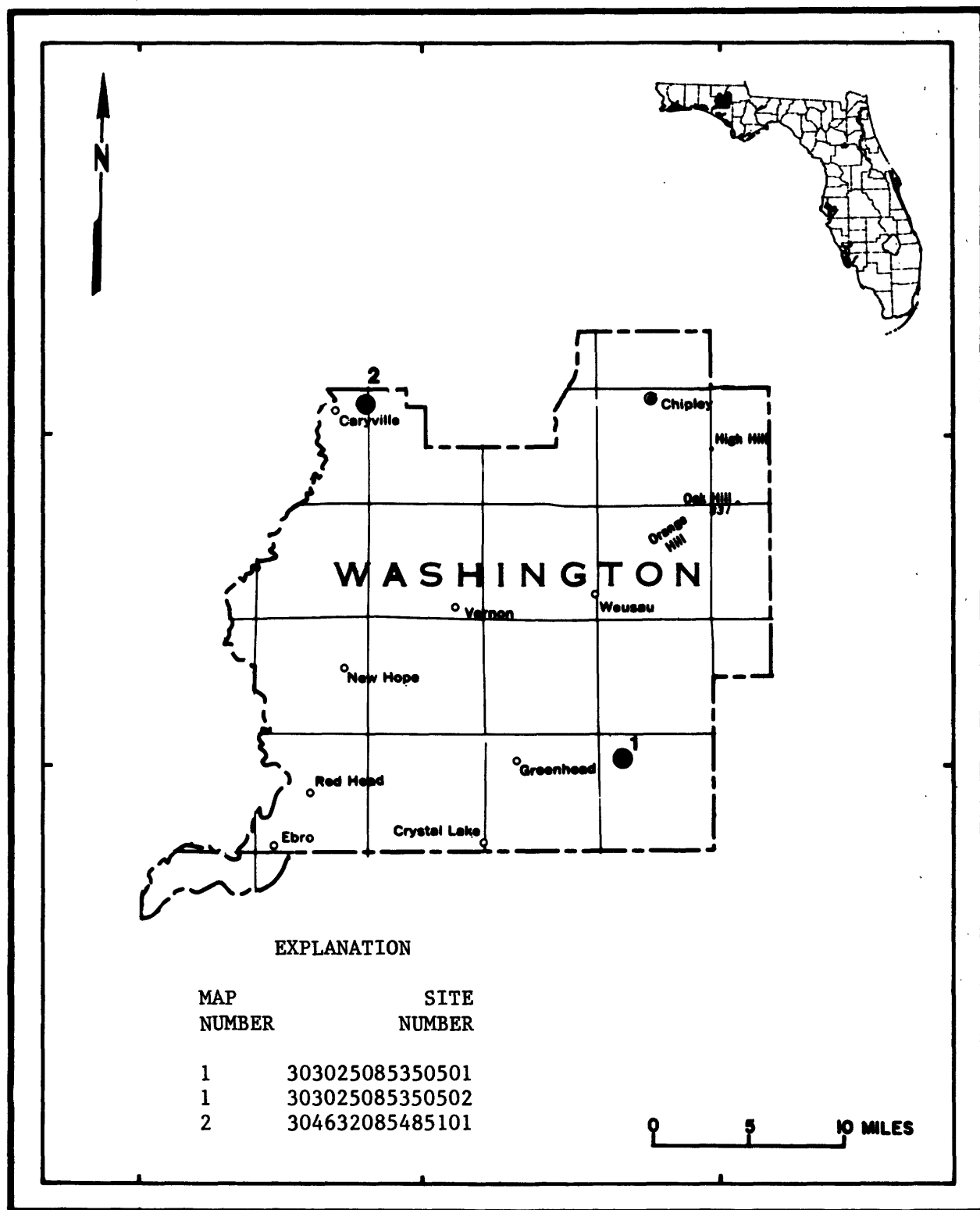


Figure 38. Location of wells in Washington County

WASHINGTON COUNTY

WELL NUMBER--303025085350501. Local Number 422A. U.S. Geological Survey Observation Well near Wausau, FL.

LOCATION.--Lat 30°30'25", long 85°35'05", in SE¼NW¼NW¼ sec.7, T.1 N., R.13 W., Hydrologic Unit 03140101, 0.6 (1.0 km) east of road to Deadening Cemetery, 4.2 mi (6.8 km) east of State Highway 77, and 8.6 mi (13.8 km) south of Wausau.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, observation, artesian well, diameter 4 in (10 cm), depth 150 ft (46 m), cased to 110 ft (34 m).

INSTRUMENTATION.--Water-level recorder. Measuring point: Top of recorder shelf, 2.90 ft (0.88 m) above land-surface datum.

DATUM.--Land-surface datum is 66.11 ft (20.15 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--1962 to current year. Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 65.75 ft (20.04 m) NGVD, Oct. 1, 2, 1979; lowest, 48.19 ft (14.69 m) NGVD, Feb. 13, 14, 1969.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982
MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	57.01	56.28	55.40	55.43	55.90	56.25	55.17	54.71			---	
10	56.84	56.18	55.25	55.37	56.46	56.52	55.21	54.61			---	
15	56.65	56.02	55.26	55.52	56.49	56.35	55.05	---			57.28	
20	56.46	55.85	55.19	55.45	56.51	56.09	54.89	---			---	
25	56.48	55.66	55.10	55.39	56.34	55.70	55.01	---			---	
EOM	56.45	55.53	55.21	55.22	56.34	55.37	54.88	---			---	
MEAN	56.70	55.97	55.24	55.40	56.30	56.09	55.04	54.68			57.21	
MAX	57.17	56.42	55.53	55.59	56.58	56.52	55.31	54.84			57.28	
MIN	56.35	55.53	55.05	55.22	55.15	55.37	54.76	54.50			57.16	

WTR YR 1982 MEAN 55.77 MAX 57.28 AUG 15 MIN 54.50 MAY 13

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

WELL NUMBER--303025085350502. Local number 030-535-422B. U.S. Geological Survey Observation Well near Wausau, FL.

LOCATION.--Lat 30°30'25", long 85°35'05", in SE¼NW¼NW¼ sec.7, T.1 N., R.13 W., Hydrologic Unit 03140101, 0.6 mi (1.0 km) east of road to Deadening Cemetery, 4.2 mi (6.8 km) east of State Highway 77, and 8.6 mi (13.8 km) south of Wausau.

AQUIFER.--Nonartesian sand aquifer of the Tertiary System, Geologic Unit 120 NRSD.

WELL CHARACTERISTICS.--Drilled, observation well, diameter 2 in (5 cm), depth 26 ft (8 m), cased to 23 ft (7 m), screened from 23 to 26 ft (7 to 8 m).

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 2.80 ft (0.85 m) above land-surface datum.

DATUM.--Land-surface datum is 67.48 ft (20.57 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--September 1962 to current year (bimonthly). Records of water levels prior to January 1974 are available in files of the Geological Survey.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 66.21 ft (20.18 m) NGVD, Feb. 20, 1964; lowest measured, 58.55 ft (17.85 m) NGVD, Nov. 7, 1972.

ELEVATION IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 18...	1035	61.09	MAY 06...	1305	62.18
JAN 21...	1125	62.45	AUG 13...	1315	65.26
MAR 22...	1010	63.04			

WELL DESCRIPTIONS AND WATER LEVEL MEASUREMENTS

WASHINGTON COUNTY

WELL NUMBER.--304632085485101. Local number 4. Town of Caryville Well at Caryville, FL.

LOCATION.--Lat 30°46'32", long 85°48'51", in NW¼NE¼NW¼ sec.11, T.4 N., R.16 W., Hydrologic Unit 03140203, at lumber mill, 0.1 mi (0.2 km) north of U.S. Highway 90 at Caryville.

AQUIFER.--Floridan aquifer of the Tertiary System, Geologic Unit 120 FLRD.

WELL CHARACTERISTICS.--Drilled, public-supply, artesian well, diameter 4 in (10 cm), depth 785 ft (239 m), casing length unknown.

INSTRUMENTATION.--Tape measured. Measuring point: Top of casing, 1.00 ft (0.30 m) above land-surface datum.

DATUM.--Land-surface datum is 62.97 ft (19.19 m) National Geodetic Vertical Datum of 1929.

PERIOD OF RECORD.--September 1946 to current year (bimonthly).

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 56.17 ft (17.12 m) NGVD, Mar. 9, 1966; lowest measured, 44.99 ft (13.17 m) NGVD, Nov. 23, 1952.

EXTREMES OUTSIDE PERIOD OF RECORD.--A water-level of 62.97 ft (19.19 m) NGVD, was reported by driller, Dec. 12, 1935.

ELEVATION, IN FEET NGVD, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)	DATE	TIME	ELEV- ATION ABOVE NGVD (FEET)
NOV 30...	1200	46.19	MAY 04...	1010	52.23
JAN 19...	1140	50.82	JUL 27...	1000	49.94
MAR 25...	1545	52.77	SEP 14...	0950	50.32

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

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			DATE OF SAMPLE	ELEV- ATION ABOVE NGVD (FEET)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	GEO- LOGIC UNIT
STATION NUMBER	STATION NAME						
ALACHUA							
293228082380601	MELVIN ALLEN NR NEWBERRY		81-11-05	45.13	34.32	79.45	120FLRD
			82-09-29	55.45	24.00	79.45	
293542082253801	U.S.G.S./HOWELL WELL AT KANAPAHA		81-11-05	40.63	36.42	77.05	120FLRD
			82-05-04	43.93	33.12	77.05	
			82-09-21	47.41	--	77.05	
294153082293601	RUSSELL FULMER NR. GAINESVILLE, FL.		81-11-05	29.45	57.80	87.25	120FLRD
294306082234701	SPARKS SUBSTITUTE WEST OF GAINESVILLE		81-11-04	40.80	137.20	178.00	120FLRD
294428082362901	FOREST GROVE TOWER NR NEWBERRY		81-11-03	30.90	59.10	90.00	120FLRD
294640082064501	ROD REESE NR KEYSTONE HEIGHTS		81-11-04	76.48	92.00	168.48	120FLRD
294839082230701	CELLON WELL NR LA CROSSE		81-11-04	42.42	121.58	164.00	120FLRD
			82-05-04	42.98	121.02	164.00	
			82-09-20	44.68	--	164.00	
294923082174501	MONTEOCHA		81-11-04	57.48	42.52	100.00	120FLRD
			82-05-04	59.50	40.50	100.00	
			82-09-14	60.26	--	100.00	
295129082332601	DR J L SWARTZ NR HIGH SPRINGS		81-11-05	33.25	34.57	66.32	120FLRD
BAKER							
301423082261101	B-15		81-11-03	52.73	106.87	160.00	120FLRD
			82-05-27	55.74	103.86	160.00	
			82-08-09	57.78	101.82	160.00	
302115082232201	ONF #5 FLORIDAN WELL		81-11-03	48.94	82.65	131.59	120FLRD
302251082194901	ONF #6 FLORIDAN WELL		81-11-03	48.71	79.06	127.77	120FLRD
			82-05-12	51.82	75.95	127.77	
			82-05-27	51.34	76.43	127.77	
			82-08-09	52.28	75.49	127.77	
			82-09-08	52.18	75.59	127.77	
BAY							
300347085345501	LOCAL NO. 003534113		81-11-26	2.95	24.90	28.00	120FLRD
			82-05-13	3.75	24.10	28.00	
301006085413501	WELL BAY 7 AT PANAMA CITY, FLORIDA		81-11-26	-3.59	29.90	26.33	120FLRD
			82-05-06	-2.60	28.93	26.33	
301550085355801	LOCAL NO.015-535-113		81-11-26	8.26	-0.48	7.78	120FLRD
			82-05-06	6.60	-1.18	7.78	
BRADFORD							
295055082130801	GRAHAM USGS WELL NR.WALDO		81-11-06	60.82	79.18	140.00	120FLRD
			82-05-10	62.91	77.09	140.00	
			82-08-05	63.47	76.53	140.00	
			82-09-14	64.65	75.35	140.00	
295257082045701	SOUTH OF STARKE		81-11-06	82.73	91.14	173.87	120FLRD
			82-05-10	84.13	89.74	173.87	
			82-08-05	84.40	89.47	173.87	
			82-09-14	85.36	88.51	173.87	
300020082103001	LOCAL NO.000-210-2		81-11-06	56.51	81.01	137.52	120FLRD
			82-05-10	57.64	79.88	137.52	
			82-05-27	58.34	79.18	137.52	
			82-09-14	59.47	78.05	137.52	
CALHOUN							
301437085114901	LOCAL NO.014-511-1		81-11-13	38.95	-7.25	31.70	120FLRD
			82-05-13	40.90	-9.20	31.70	
302844085094701	TAYLOR BRANCH WELL NR CLARKSVILLE,FL		81-11-18	40.32	-0.32	40.00	120FLRD
			82-05-27	41.64	-1.64	40.00	
303024085024701	STAFFORD CR WELL N OF BLOUNTSTOWN,FL		81-11-13	59.18	30.82	90.00	120FLRD
			82-05-27	59.95	30.05	90.00	

MISCELLANEOUS WATER LEVEL MEASUREMENTS
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MISCELLANEOUS WATER LEVEL MEASUREMENTS
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STATION NUMBER	STATION NAME	DATE OF SAMPLE	ELEV- ATION ABOVE NGVD (FEET)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	GEO- LOGIC UNIT
ESCAMBIA						
302220087205001	USGS TH11 DOG TRACK RD.	82-09-16	--	13.88	22.00	120NFSG
302232087240501	USGS TH108,SE BRONSON FLD	81-10-12	--	19.30	25.00	120NFSG
		81-11-09	--	18.72	25.00	
		81-12-07	--	19.02	25.00	
		82-01-16	--	18.07	25.00	
		82-02-16	--	17.10	25.00	
		82-03-08	--	17.26	25.00	
		82-04-12	--	17.40	25.00	
		82-05-10	--	18.29	25.00	
		82-06-07	--	18.69	25.00	
		82-07-14	--	17.88	25.00	
		82-08-10	--	15.82	25.00	
		82-09-16	--	18.09	25.00	
302302087252501	USGS TH107,BRONSON FLD.	81-10-12	3.52	7.61	14.00	120NFSG
		81-11-09	4.32	6.81	14.00	
		81-12-07	3.69	7.44	14.00	
		82-01-16	3.98	7.15	14.00	
		82-03-08	5.29	5.84	14.00	
		82-04-12	4.59	6.54	14.00	
		82-05-10	4.10	7.03	14.00	
		82-06-07	4.10	7.03	14.00	
		82-08-10	5.12	6.01	14.00	
		82-09-16	5.12	6.01	14.00	
302302087252502	USGS TH107A,BRONSON FLD.	81-10-12	2.38	8.74	14.00	120NFSG
		81-11-09	2.93	8.19	14.00	
		81-12-07	2.50	8.62	14.00	
		82-01-16	3.64	7.48	14.00	
		82-03-08	5.84	5.28	14.00	
		82-04-12	4.45	6.67	14.00	
		82-05-10	3.64	7.48	14.00	
		82-06-07	2.74	8.38	14.00	
		82-08-10	5.39	5.73	14.00	
		82-09-16	4.04	7.08	14.00	
302320087214601	USGS TH109,TANTON RD	81-10-12	--	16.85	26.00	120NFSG
		81-11-09	--	15.19	26.00	
		81-12-07	--	16.57	26.00	
		82-01-19	--	16.18	26.00	
		82-02-16	--	15.65	26.00	
		82-04-12	--	15.36	26.00	
		82-05-10	--	15.80	26.00	
302320087214601	USGS TH109,TANTON RD	82-06-07	--	16.30	26.00	120NFSG
		82-07-14	--	16.36	26.00	
		82-08-10	--	15.37	26.00	
		82-09-16	--	15.84	26.00	
302354087210501	USGS TH9-FRGSN AIR SERV.	81-10-12	--	17.75	26.00	120NFSG
		81-11-09	--	17.17	26.00	
		81-12-07	--	17.72	26.00	
		82-01-19	--	17.05	26.00	
		82-02-16	--	16.45	26.00	
		82-03-08	--	15.88	26.00	
		82-04-12	--	16.04	26.00	
		82-05-10	--	16.66	26.00	
		82-06-07	--	16.06	26.00	
		82-07-14	--	16.00	26.00	
		82-08-10	--	15.30	26.00	
		82-09-16	--	16.36	26.00	
302354087210502	USGS TH9A-FRGSN AIR.SERV.	81-10-12	--	4.03	26.00	120NFSG
		81-11-09	--	3.46	26.00	
		81-12-07	--	3.70	26.00	
		82-01-19	--	1.14	26.00	
		82-02-16	--	1.00	26.00	
		82-03-08	--	0.00	26.00	
		82-04-12	--	2.00	26.00	
		82-05-10	--	2.29	26.00	
		82-06-07	--	2.09	26.00	
		82-07-14	--	1.97	26.00	
		82-08-10	--	0.07	26.00	
		82-09-16	--	2.89	26.00	

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STATION NUMBER	STATION NAME	DATE OF SAMPLE	ELEVATION ABOVE NGVD (FEET)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	GEO-LOGIC UNIT
ESCAMBIA						
302355087200301	USGS TH31,1 MI.W.FAIRFLD	81-10-12	--	18.97	28.00	120NFSG
		81-11-09	--	20.55	28.00	
		81-12-07	--	19.01	28.00	
		82-01-19	--	18.18	28.00	
		82-02-16	--	16.46	28.00	
		82-04-12	--	16.19	28.00	
		82-06-07	--	18.06	28.00	
		82-07-14	--	18.07	28.00	
		82-08-10	--	17.35	28.00	
		82-09-16	--	17.57	28.00	
		82-10-12	--	17.06	31.00	
		81-11-09	--	17.28	31.00	
		81-12-07	--	17.81	31.00	
		82-01-19	--	17.02	31.00	
302432087182601	USGS TH3-72ND AVE.S.JKSN	82-02-16	--	15.27	31.00	120NFSG
		82-03-08	--	14.41	31.00	
		82-07-14	--	16.02	31.00	
		82-08-10	--	14.51	31.00	
		82-09-16	--	14.94	31.00	
		81-10-12	7.78	15.02	22.90	
		81-12-07	8.28	14.52	22.90	
		82-01-19	7.93	14.87	22.90	
		82-02-16	7.80	15.00	22.90	
		82-04-12	8.07	14.73	22.90	
302435087141601	USGS TH104 ROMANA W.K ST	82-05-10	7.16	15.64	22.90	120NFSG
		82-06-07	6.90	15.90	22.90	
		82-07-14	8.00	14.80	22.90	
		82-08-10	7.32	15.48	22.90	
		82-09-16	6.53	16.27	22.90	
		81-10-12	9.44	44.26	53.80	
		81-12-07	9.17	44.53	53.80	
		82-01-19	10.27	43.43	53.80	
		82-02-16	10.62	43.08	53.80	
		82-03-08	11.22	42.48	53.80	
		82-04-12	11.08	42.62	53.80	
		82-05-10	11.15	42.55	53.80	
		82-06-07	9.30	44.40	53.80	
		82-07-14	10.66	43.04	53.80	
302459087154401	USGS TH103 KEYES COURT	82-08-10	10.94	42.76	53.80	120NFSG
		82-09-16	10.78	42.92	53.80	
		81-10-05	--	59.23	62.00	
		81-11-02	--	59.36	62.00	
		81-12-01	--	59.36	62.00	
		82-01-04	--	59.23	62.00	
		82-02-08	--	59.39	62.00	
		82-03-08	--	59.03	62.00	
		82-05-03	--	58.89	62.00	
		82-06-01	--	59.06	62.00	
302541087114501	USGS TH1-17TH&GONZALEZ ST	82-07-07	--	59.93	62.00	120NFSG
		82-08-06	--	58.92	62.00	
		82-09-05	--	58.64	62.00	
		81-10-05	--	58.23	62.00	
		81-11-02	--	58.46	62.00	
		81-12-01	--	60.06	62.00	
		82-01-04	--	58.86	62.00	
		82-02-08	--	58.74	62.00	
		82-03-08	--	58.19	62.00	
		82-05-03	--	57.88	62.00	
302541087114502	USGS TH1A-17TH&GONZALEZ	82-06-01	--	57.27	62.00	120NFSG
		82-07-07	--	58.32	62.00	
		82-08-06	--	58.09	62.00	
		82-09-05	--	57.46	62.00	
		81-10-05	--	23.80	62.00	
		81-11-02	--	23.81	62.00	
		81-12-01	--	23.99	62.00	
		82-01-19	--	24.06	62.00	
		82-03-08	--	58.19	62.00	
		82-05-03	--	57.88	62.00	
302643087153601	USGS TH2-HOLLYWOOD AVE.	82-06-01	--	57.27	62.00	120NFSG
		82-07-07	--	58.32	62.00	
		82-08-06	--	58.09	62.00	
		82-09-05	--	57.46	62.00	
		81-10-05	--	23.80	62.00	

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STATION NUMBER	STATION NAME	DATE OF SAMPLE	ELEV- ATION ABOVE NGVD (FEET)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	GEO- LOGIC UNIT
ESCAMBIA						
302820087211401	USGS TH22-SAUFLEY PINE RD	81-10-12	--	10.84	23.00	120NFSG
		81-11-09	--	10.73	23.00	
		81-12-07	--	10.83	23.00	
		82-01-16	--	10.10	23.00	
		82-02-18	--	9.47	23.00	
		82-03-08	--	9.34	23.00	
		82-04-12	--	9.90	23.00	
		82-05-10	--	10.08	23.00	
		82-06-07	--	10.42	23.00	
		82-07-12	--	9.99	23.00	
		82-08-09	--	9.66	23.00	
		82-09-15	--	10.08	23.00	
		81-10-12	--	80.74	103.00	
		81-11-09	--	80.62	103.00	
		81-12-07	--	80.89	103.00	
302958087230001	USGS TH8-HURST HAMMOCK RD	82-01-16	--	80.23	103.00	120NFSG
		82-02-18	--	78.14	103.00	
		82-03-08	--	79.82	103.00	
		82-04-12	--	80.01	103.00	
		82-05-10	--	79.83	103.00	
		82-06-07	--	80.47	103.00	
		82-07-12	--	79.21	103.00	
		82-08-09	--	79.41	103.00	
		82-09-15	--	80.07	103.00	
		81-10-12	--	62.57	85.00	
		81-11-09	--	62.39	85.00	
		81-12-07	--	62.84	85.00	
		82-01-16	--	62.45	85.00	
		82-02-18	--	62.09	85.00	
		82-03-08	--	62.03	85.00	
303006087205201	USGS TH7-US 90 S OF JAMES	82-04-12	--	62.01	85.00	120NFSG
		82-05-10	--	62.01	85.00	
		82-06-07	--	62.31	85.00	
		82-07-12	--	62.19	85.00	
		82-08-09	--	61.93	85.00	
		82-09-15	--	61.46	85.00	
		81-10-12	--	54.97	74.00	
		81-11-09	--	54.75	74.00	
		81-12-07	--	54.79	74.00	
		82-01-16	--	54.23	74.00	
		82-02-18	--	54.65	74.00	
		82-03-08	--	54.01	74.00	
		82-04-12	--	55.10	74.00	
		82-05-10	--	54.83	74.00	
		81-10-12	--	42.13	74.00	
303018087192201	USGS TH5 8MI CRK&DUNAWAY	81-11-09	--	42.36	74.00	120NFSG
		81-12-07	--	42.69	74.00	
		82-01-16	--	42.95	74.00	
		82-02-18	--	42.49	74.00	
		82-03-08	--	42.91	74.00	
		82-04-12	--	43.14	74.00	
		82-05-10	--	43.04	74.00	
		82-06-07	--	43.15	74.00	
		82-07-12	--	41.61	74.00	
		82-08-09	--	41.87	74.00	
		82-09-15	--	41.16	74.00	
		81-10-05	20.69	35.50	41.00	
		81-11-02	20.51	35.68	41.00	
		81-12-01	20.19	36.00	41.00	
303018087192202	USGS TH5A 8MI CRK&DUNAWAY	82-01-04	20.21	35.98	41.00	120NFSG
		82-02-08	19.95	36.24	41.00	
		82-03-01	19.90	36.29	41.00	
		82-05-03	19.80	36.39	41.00	
		82-06-01	19.87	36.32	41.00	
		82-07-07	19.54	36.65	41.00	
		82-08-02	20.03	36.16	41.00	
		81-10-05	20.69	35.50	41.00	
		81-11-02	20.51	35.68	41.00	
		81-12-01	20.19	36.00	41.00	
303208087132701	USGS TH6 DAVID&BARRINGER	82-01-04	20.21	35.98	41.00	120NFSG
		82-02-08	19.95	36.24	41.00	
		82-03-01	19.90	36.29	41.00	
		82-05-03	19.80	36.39	41.00	
		82-06-01	19.87	36.32	41.00	
		82-07-07	19.54	36.65	41.00	
		82-08-02	20.03	36.16	41.00	
		81-10-05	20.69	35.50	41.00	
		81-11-02	20.51	35.68	41.00	
		81-12-01	20.19	36.00	41.00	

MISCELLANEOUS WATER LEVEL MEASUREMENTS
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STATION NUMBER	STATION NAME	DATE OF SAMPLE	ELEV- ATION ABOVE NGVD (FEET)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	GEO- LOGIC UNIT
ESCAMBIA						
303208087132701	USGS TH6 DAVID&BARRINGER	82-09-05	19.94	36.25	41.00	120NFSG
303216087194101	USGS TH29-CALICO DRIVE	81-10-12	--	57.08	96.00	120NFSG
		81-11-09	--	57.30	96.00	
		81-12-07	--	57.54	96.00	
		82-01-16	--	57.61	96.00	
		82-03-08	--	57.40	96.00	
		82-04-12	--	57.30	96.00	
		82-05-10	--	57.71	96.00	
		82-06-07	--	57.68	96.00	
		82-07-12	--	57.77	96.00	
		82-08-09	--	57.52	96.00	
		82-09-15	--	57.38	96.00	
303249087140801	USGS TH21 GREENBRIAR RD	81-10-05	21.86	20.64	42.47	120NFSG
		81-11-02	21.56	20.94	42.47	
		81-12-01	21.20	21.30	42.47	
		82-01-04	21.33	21.17	42.47	
		82-02-08	22.17	20.33	42.47	
		82-03-01	22.05	20.45	42.47	
		82-05-03	21.56	20.94	42.47	
		82-06-01	21.14	21.36	42.47	
		82-07-07	20.89	21.61	42.47	
		82-08-02	21.84	20.66	42.47	
		82-09-05	22.16	20.34	42.47	
303249087140802	USGS TH21A GREENBRIAR RD	81-10-05	22.26	20.31	42.57	120NFSG
		81-11-02	21.92	20.65	42.57	
		81-12-01	21.72	20.85	42.57	
303251087150201	USGS TH20,10-MI RD.	81-10-05	32.77	67.34	100.11	120NFSG
		81-11-02	33.39	66.72	100.11	
		81-12-01	33.37	66.74	100.11	
		82-01-04	32.67	67.44	100.11	
		82-02-08	32.25	67.86	100.11	
		82-03-01	31.95	68.16	100.11	
		82-05-03	31.93	68.18	100.11	
		82-06-01	31.93	68.18	100.11	
		82-07-07	34.50	65.61	100.11	
		82-08-02	34.23	65.88	100.11	
		82-09-05	33.45	66.66	100.11	
303346087185401	USGS TH18-W.ROBERTS ROAD	81-10-05	--	77.15	124.00	120NFSG
		81-11-02	--	77.15	124.00	
		81-12-01	--	77.79	124.00	
		82-01-04	--	78.48	124.00	
		82-02-08	--	78.91	124.00	
		82-03-01	--	78.95	124.00	
		82-05-03	--	78.62	124.00	
		82-06-01	--	77.59	124.00	
		82-07-07	--	78.90	124.00	
		82-08-02	--	78.60	124.00	
		82-09-05	--	78.49	124.00	
303642087232301	USGS TH12-N.OF MUSCOGEE	81-10-05	--	81.61	118.00	120NFSG
		81-12-01	--	82.58	118.00	
		82-01-04	--	81.55	118.00	
		82-02-08	--	81.50	118.00	
		82-03-01	--	82.45	118.00	
		82-05-03	--	82.33	118.00	
		82-06-01	--	81.64	118.00	
		82-09-05	--	82.63	118.00	
303659087222001	USGS TH16-FARM HILL S-97	81-10-05	--	88.63	138.00	120NFSG
		81-11-02	--	88.62	138.00	
		81-12-01	--	89.09	138.00	
		82-01-04	--	88.83	138.00	
		82-02-08	--	88.83	138.00	
		82-03-01	--	88.42	138.00	
		82-05-03	--	88.45	138.00	
		82-06-01	--	87.02	138.00	
		82-07-07	--	86.60	138.00	
		82-08-02	--	86.63	138.00	
		82-09-05	--	88.00	138.00	

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STATION NUMBER	STATION NAME	DATE OF SAMPLE	ELEV- ATION ABOVE NGVD (FEET)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	GEO- LOGIC UNIT
ESCAMBIA						
303723087182601	USGS TH28 EDEN RD	81-10-05	--	47.96	74.00	120NFSG
		81-11-02	--	48.31	74.00	
		81-12-01	--	48.66	74.00	
		82-01-04	--	48.05	74.00	
		82-02-08	--	48.35	74.00	
		82-03-01	--	47.85	74.00	
		82-05-03	--	46.19	74.00	
		82-06-01	--	45.90	74.00	
		82-07-07	--	48.52	74.00	
		82-09-05	--	48.84	74.00	
303958087233201	USGS TH13-S.CHRCHSE BR.	81-11-20	59.56	92.44	139.00	120NFSG
		82-01-06	60.14	91.86	139.00	
		82-03-23	60.01	91.99	139.00	
		82-05-12	59.83	92.17	139.00	
		82-09-14	60.14	91.86	139.00	
304008087211601	USGS TH27-4.5MI.N.CNTNMNT	81-10-05	--	117.24	156.00	120NFSG
		81-11-02	--	117.48	156.00	
		81-12-01	--	117.75	156.00	
		82-01-04	--	117.19	156.00	
		82-02-08	--	117.45	156.00	
		82-03-01	--	117.24	156.00	
		82-05-03	--	117.38	156.00	
		82-06-01	--	117.87	156.00	
		82-07-07	--	119.08	156.00	
		82-08-02	--	117.93	156.00	
		82-09-05	--	118.96	156.00	
FRANKLIN						
294708084460701	LOCAL NO.947-446-1	81-11-16	3.58	10.80	14.38	120FLRD
		82-05-13	4.29	10.09	14.38	
295046084394301	FRANKLIN NO 10	81-11-16	4.17	0.89	5.06	120FLRD
		82-05-13	4.07	0.99	5.06	
295732084430701	FRANKLIN 41	81-11-16	13.46	-3.45	10.01	120FLRD
		82-05-13	13.86	-3.85	10.01	
GILCHRIST						
293653082493202	936249220A 10S15E16 14- CITY OF TRENTON E. WELL	81-11-02	13.07	43.22	56.29	120FLRD
		82-08-04	17.48	38.81	56.29	
		82-09-24	20.65	35.64	56.29	
294135082553401	CLIFTON MIKEL NR WANNEE	81-11-02	4.74	28.02	32.76	120FLRD
		82-09-27	8.11	24.65	32.76	
294521082514901	FILLMAN NR SUWANNEE RIVER	81-11-02	16.10	51.23	67.33	120FLRD
294701082402201	NEALS SOUTH WEST OF HIGH SPRINGS	81-11-02	28.43	53.57	82.00	120FLRD
294721082443001	ALT.SITE NO 4 SOUTH WEST OF HIGH SPRINGS	81-11-02	33.85	27.23	61.08	120FLRD
294743082543901	EDGAR L SMITH	81-11-02	7.68	29.16	36.84	120FLRD
295214082482501	ALBERT BERRY	81-11-02	48.59	16.41	65.00	120FLRD
HAMILTON						
302208082420101	PRESTON STORMANT EAST OF WHITE SPRINGS	81-11-04	49.75	83.37	145.00	120FLRD
302323082493501	A C HOGAN WELL	81-11-04	45.93	92.85	138.00	120FLRD
302642083065201	WALTER PHILLIPS NR.FT.UNION	81-11-04	28.93	42.07	71.00	120FLRD
302835082545301	FFS WELL S OF JASPER	81-11-04	40.41	97.59	138.00	120FLRD
		82-08-02	47.47	90.53	138.00	
		82-09-27	44.82	93.18	138.00	
302859083015001	IVEY CARTER NR FT UNION	81-11-04	36.17	67.83	104.00	120FLRD
		82-05-28	40.93	63.07	104.00	
		82-08-02	45.48	58.52	104.00	
		82-09-28	41.03	62.97	104.00	
302957082441201	CAMP MALLORY AT BENTON	81-11-04	58.00	72.43	130.43	120FLRD
		82-08-02	63.21	67.22	130.43	
		82-09-27	61.49	68.94	130.43	
303120083050101	DECAR SCAFF S. OF JENNINGS	81-11-04	32.59	97.99	130.20	120FLRD

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STATION NUMBER	STATION NAME	DATE OF SAMPLE	ELEV- ATION ABOVE NGVD (FEET)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	GEO- LOGIC UNIT
HAMILTON						
303158082562901	STAFFORD SCAFF AT JASPER	81-11-04	37.04	107.96	145.00	120FLRD
		82-05-27	42.87	102.13	145.00	
		82-08-02	46.95	98.05	145.00	
		82-09-27	43.95	101.05	145.00	
303312082592101	JERRY L LEWIS AT JASPER	81-11-04	31.33	76.67	108.00	120FLRD
303425082473601	CYPRESS CREEK	81-11-04	54.11	75.90	130.01	120FLRD
303622083050601	LOCAL NO.036-305-1	82-05-28	44.42	104.28	148.70	120FLRD
		82-08-02	48.59	100.11	148.70	
		82-09-28	41.82	106.88	148.70	
HOLMES						
304626085410301	KINGDOM HALL AT BONIFAY FL	81-11-30	98.74	30.26	123.00	120FLRD
		82-05-04	103.74	25.26	123.00	
305014085483701	LOCAL NO.050-548-1	82-05-04	73.34	-1.84	71.50	120FLRD
305119085561901	LOCAL NO.051-556-1	81-11-30	75.80	209.88	285.68	120FLRD
		82-05-04	76.48	209.20	285.68	
305828085350901	HOLMES 7 BUSH	81-11-09	156.59	17.69	174.28	120FLRD
		82-05-14	158.60	15.68	174.28	
JACKSON						
304142085214101	BRADY FORAN ALFORD FL	81-11-09	78.52	39.48	118.00	120FLRD
		82-05-14	88.00	30.00	118.00	
304230084532301	LOCAL NO.23 FLA STATE HOSPITAL	82-03-25	67.43	27.20	94.63	120FLRD
304747085223401	CITY OF COTTONDALE	82-05-14	116.10	16.90	133.00	120FLRD
304918084565601	NORTH OF SNEADS	81-11-09	86.27	23.73	110.00	120FLRD
304918085124201	RETTIG N. OF MARIANNA	81-11-09	71.99	28.01	100.00	120FLRD
304918085124201	RETTIG N. OF MARIANNA	82-05-28	76.00	24.00	100.00	120FLRD
		82-06-15	75.25	24.75	100.00	
305713085305301	CITY OF GRACEVILLE	81-11-09	133.80	11.10	145.00	120FLRD
		82-05-28	135.90	9.10	145.00	
305844085035401	LOCAL NO.058-503-1	81-11-09	98.70	34.99	133.69	120FLRD
		82-05-28	103.49	30.20	133.69	
305947085243001	WELCOME STAT. N OF CAMBELLTON	81-11-09	133.28	18.72	152.00	120FLRD
		82-05-14	137.00	15.00	152.00	
JEFFERSON						
301118084014001	FOREST ROAD NORTH OF 98	81-10-21	6.13	4.87	11.00	120FLRD
		81-11-02	7.34	3.66	11.00	
		81-12-16	8.60	2.40	11.00	
		82-01-22	9.51	1.49	11.00	
		82-02-26	9.33	1.67	11.00	
		82-03-25	9.45	1.55	11.00	
		82-04-06	9.36	1.64	11.00	
		82-05-06	8.82	2.18	11.00	
		82-06-21	9.77	1.23	11.00	
		82-07-22	9.89	1.11	11.00	
		82-08-20	9.80	1.20	11.00	
		82-09-22	9.58	1.42	11.00	
301651083524901	AUCILLA R HUNT CAMP NR LAMONT	81-10-22	--	7.66	--	120FLRD
		81-11-03	--	7.03	--	
		82-02-26	31.45	4.55	--	
		82-03-25	32.35	3.65	--	
		82-04-07	31.51	4.49	--	
		82-05-06	30.82	5.18	--	
		82-06-21	31.70	4.30	--	
		82-07-27	32.23	3.77	--	
		82-08-24	31.59	4.41	--	
		82-09-22	32.40	3.60	--	
302204083561501	LOCAL NO.022-356-1	81-10-22	34.92	143.91	178.83	120FLRD
		81-11-03	34.97	143.86	178.83	
		81-12-16	35.14	143.69	178.83	

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JEFFERSON						
302204083561501	LOCAL NO.022-356-1	82-01-22	35.60	143.23	178.83	120FLRD
		82-02-26	36.04	142.79	178.83	
		82-03-25	36.52	142.31	178.83	
		82-04-07	36.04	142.79	178.83	
		82-05-06	35.89	142.94	178.83	
		82-05-27	35.98	142.85	178.83	
		82-06-21	36.15	142.68	178.83	
		82-07-27	36.19	142.64	178.83	
		82-08-03	36.88	141.95	178.83	
		82-08-24	36.24	142.59	178.83	
		82-09-27	35.99	142.84	178.83	
302251083485601	LAMONT	81-10-22	36.01	23.99	60.00	120FLRD
		81-11-03	35.96	24.04	60.00	
303001083553401	JOSEPH BELLEMY	81-10-22	32.24	142.76	175.00	120FLRD
		81-11-03	33.32	141.68	175.00	
		81-12-16	32.66	142.34	175.00	
		82-01-20	33.02	141.98	175.00	
		82-02-24	33.62	141.38	175.00	
		82-03-23	33.82	141.18	175.00	
		82-04-06	33.97	141.03	175.00	
		82-05-06	33.70	141.30	175.00	
		82-06-21	33.42	141.58	175.00	
		82-07-27	33.60	141.40	175.00	
		82-08-23	33.82	141.18	175.00	
		82-09-24	33.67	141.33	175.00	
303419083381401	COUNTY LINE US-221	81-10-23	65.59	41.41	107.00	120FLRD
		81-11-03	65.43	41.57	107.00	
		81-12-17	64.97	42.03	107.00	
		82-01-20	65.86	41.14	107.00	
		82-02-24	67.37	39.63	107.00	
		82-03-23	67.74	39.26	107.00	
		82-04-07	67.68	39.32	107.00	
		82-05-07	68.08	38.92	107.00	
		82-06-24	67.54	39.46	107.00	
		82-07-28	67.68	39.32	107.00	
		82-08-26	67.79	39.21	107.00	
		82-09-27	67.28	39.72	107.00	
303812083362401	LOCAL NO.038-336-1	81-10-23	69.58	28.74	98.32	120FLRD
		81-11-03	69.42	28.90	98.32	
		81-12-17	68.85	29.47	98.32	
		82-01-20	69.37	28.95	98.32	
		82-02-24	70.86	27.46	98.32	
		82-03-23	71.47	26.85	98.32	
		82-04-07	71.49	26.83	98.32	
		82-05-07	71.83	26.49	98.32	
		82-05-27	71.58	26.74	98.32	
		82-06-24	71.25	27.07	98.32	
		82-07-28	71.35	26.97	98.32	
		82-08-02	71.50	26.82	98.32	
		82-08-26	71.46	26.86	98.32	
		82-09-27	70.98	27.34	98.32	
LAFAYETTE						
295008083182801	STEINHATCHEE SPRINGS	81-11-06	22.22	5.51	27.73	120FLRD
295246082553801	R. J. LAND S. OF BRANFORD	81-11-06	18.96	11.04	30.00	120FLRD
		82-05-27	22.81	7.19	30.00	
		82-08-05	23.84	6.16	30.00	
		82-09-29	25.77	4.23	30.00	
295508083162801	ONEAL BOATWRIGHT-COOKS HAMMOCK	81-11-02	44.41	10.14	55.55	120FLRD
		82-08-05	47.67	6.88	55.55	
		82-09-28	46.45	8.10	55.55	
295813082595801	EPHESUS CHURCH	81-11-06	38.25	13.75	52.00	120FLRD
300048083091401	THOMAS PIERSON	81-11-06	74.85	5.15	80.00	120FLRD
300127083032001	JACKSON MAYO	81-11-06	20.83	32.64	53.47	120FLRD
300403083133101	W.MCMILLIAN	81-11-05	34.36	31.64	66.00	120FLRD

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STATION	NUMBER	STATION NAME	DATE OF SAMPLE	ELEV- ATION ABOVE NGVD (FEET)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	GEO- LOGIC UNIT
LAFAYETTE							
300433083173401		PARAMORE FOLSOM	81-11-06	72.86	10.14	83.00	120FLRD
300443083075501		EDWARD PHERO	81-11-05	20.00	55.00	75.00	120FLRD
300823083175901		LOCAL NO.008-317-1	81-11-06	40.12	43.63	83.75	120FLRD
			82-08-05	42.36	41.39	83.75	
			82-09-29	45.27	38.48	83.75	
301133083173101		PRINES GROCERY-DAY-WELL	81-11-05	57.46	28.92	88.38	120FLRD
301405083163001		THEDUS DEES CHANCEY	81-11-05	65.23	17.29	78.52	120FLRD
			82-08-05	68.67	13.85	78.52	
			82-09-28	67.53	14.99	78.52	
LEON							
301801084144501		ROY WHITTINGTON WELL NR WOODVILLE,FL	81-10-21	5.84	28.16	34.00	120FLRD
			81-11-13	5.85	28.15	34.00	
			81-12-16	6.32	27.68	34.00	
			82-01-22	6.70	27.30	34.00	
			82-02-26	7.36	26.64	34.00	
			82-03-25	7.25	26.75	34.00	
			82-04-22	7.96	26.04	34.00	
			82-05-12	6.68	27.32	34.00	
			82-06-21	9.86	24.14	34.00	
			82-07-22	9.10	24.90	34.00	
			82-08-20	9.45	24.55	34.00	
			82-09-22	8.63	25.37	34.00	
301808084303001		BROWNHOUSE HUNT CAMP	81-10-21	63.01	13.99	77.00	120FLRD
			81-11-13	62.88	14.12	77.00	
			81-12-15	63.26	13.74	77.00	
			82-01-19	64.22	12.78	77.00	
			82-02-23	64.60	12.40	77.00	
			82-03-25	64.75	12.25	77.00	
			82-04-26	64.79	12.21	77.00	
			82-05-10	64.52	12.48	77.00	
			82-06-22	64.48	12.52	77.00	
			82-07-22	65.01	11.99	77.00	
			82-08-20	65.07	11.93	77.00	
			82-09-22	65.27	11.73	77.00	
302045084120901		WELL SE-4 NR TALLAHASSEE	81-10-28	--	16.62	27.57	120FLRD
			81-11-19	--	16.75	27.57	
			81-12-21	--	16.77	27.57	
			82-01-20	--	15.88	27.57	
			82-02-23	--	15.17	27.57	
			82-03-17	--	14.64	27.57	
			82-04-19	--	14.52	27.57	
			82-05-19	--	16.12	27.57	
			82-06-18	--	16.63	27.57	
			82-07-15	--	13.81	27.57	
			82-07-16	--	13.81	27.57	
			82-08-17	--	12.35	27.57	
			82-09-16	--	13.90	27.57	
302045084123701		WELL SE-23 NR TALLAHASSEE	81-10-28	--	21.59	32.48	120FLRD
			81-11-19	--	21.65	32.48	
			82-01-20	--	20.84	32.48	
			82-02-19	--	20.00	32.48	
			82-03-17	--	20.53	32.48	
			82-04-19	--	19.45	32.48	
			82-05-20	--	21.05	32.48	
			82-06-17	--	21.48	32.48	
			82-07-16	--	18.72	32.48	
			82-08-17	--	17.28	32.48	
			82-09-15	--	18.75	32.48	
302046084113801		WELL SE-24 NR TALLAHASSEE	81-10-28	--	14.50	--	120FLRD
			81-11-19	--	14.65	--	
			81-12-22	--	14.59	--	
			82-01-20	--	13.70	--	
			82-02-23	--	13.01	--	

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STATION NUMBER	STATION NAME	LEON	DATE OF SAMPLE	ELEV- ATION ABOVE NGVD (FEET)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	GEO- LOGIC UNIT
302046084113801	WELL SE-24 NR TALLAHASSEE		82-03-17	--	13.43	--	120FLRD
			82-04-19	--	12.35	--	
			82-05-20	--	13.81	--	
			82-06-17	--	14.41	--	
			82-07-16	--	11.62	--	
			82-08-17	--	10.20	--	
			82-09-16	--	11.72	--	
302049084120901	WELL SE-2 NR TALLAHASSEE		81-10-28	--	15.10	26.05	120FLRD
			81-11-17	--	15.22	26.05	
			81-12-21	--	15.24	26.05	
			82-01-18	--	14.34	26.05	
			82-02-16	--	13.58	26.05	
			82-03-17	--	14.05	26.05	
			82-04-19	--	12.95	26.05	
			82-05-19	--	14.60	26.05	
			82-06-15	--	15.07	26.05	
			82-07-13	--	12.30	26.05	
			82-08-19	--	10.95	26.05	
			82-09-13	--	12.35	26.05	
302051084113801	WELL SE-21 NR TALLAHASSEE		81-10-28	--	19.10	30.22	120FLRD
			81-11-17	--	19.22	30.22	
			81-12-21	--	19.24	30.22	
			82-01-18	--	18.35	30.22	
			82-02-16	--	17.58	30.22	
			82-03-17	--	18.04	30.22	
			82-04-19	--	16.93	30.22	
			82-05-19	--	18.59	30.22	
			82-06-15	--	19.03	30.22	
			82-07-13	--	16.28	30.22	
			82-08-19	--	14.94	30.22	
			82-09-16	--	15.32	30.22	
302051084113802	WELL SE-20 NR TALLAHASSEE		81-10-28	--	18.82	29.92	120FLRD
			81-11-17	--	18.95	29.92	
			81-12-21	--	18.96	29.92	
			82-01-18	--	18.07	29.92	
			82-02-16	--	17.32	29.92	
			82-03-17	--	17.77	29.92	
			82-04-19	--	16.67	29.92	
			82-05-19	--	18.31	29.92	
			82-06-16	--	18.77	29.92	
			82-07-13	--	16.04	29.92	
			82-08-19	--	14.65	29.92	
			82-09-16	--	16.02	29.92	
302051084113803	WELL SE-29 NR TALLAHASSEE		81-10-28	--	18.56	30.21	110NRSD
			81-11-19	--	17.92	30.21	
			81-12-22	--	19.00	30.21	
			82-01-21	--	17.34	30.21	
			82-02-23	--	16.41	30.21	
			82-03-17	--	16.60	30.21	
			82-04-29	--	15.79	30.21	
			82-05-20	--	17.10	30.21	
			82-07-16	--	14.87	30.21	
302051084120901	WELL SE-22 NR TALLAHASSEE		81-10-28	--	17.02	27.96	120FLRD
			81-11-17	--	17.15	27.96	
			81-12-21	--	17.13	27.96	
			82-01-18	--	16.28	27.96	
			82-02-16	--	15.54	27.96	
			82-03-16	--	16.02	27.96	
			82-04-19	--	14.99	27.96	
			82-05-19	--	16.57	27.96	
			82-06-18	--	16.92	27.96	
			82-07-13	--	14.16	27.96	
			82-08-19	--	12.90	27.96	
302051084123501	WELL SE-17 NR TALLAHASSEE		81-10-28	--	20.37	31.38	120FLRD
			81-11-17	--	20.48	31.38	
			81-12-22	--	20.48	31.38	
			82-01-18	--	19.63	31.38	
			82-02-16	--	18.88	31.38	

MISCELLANEOUS WATER LEVEL MEASUREMENTS
OCTOBER 1981 TO SEPTEMBER 1982

STATION NUMBER	STATION NAME	DATE OF SAMPLE	ELEV- ATION ABOVE NGVD (FEET)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	GEO- LOGIC UNIT
LEON						
302051084123501	WELL SE-17 NR TALLAHASSEE	82-03-17	--	19.32	31.38	120FLRD
		82-04-19	--	18.23	31.38	
		82-05-18	--	19.82	31.38	
		82-06-15	--	20.32	31.38	
		82-07-13	--	17.55	31.38	
		82-08-19	--	16.18	31.38	
		82-09-13	--	17.54	31.38	
		82-10-28	--	18.85	--	
		81-11-17	--	18.94	--	
		81-12-21	--	18.96	--	
302051084123502	WELL SE-16 NR TALLAHASSEE	82-01-18	--	18.06	--	120FLRD
		82-02-16	--	17.28	--	
		82-03-17	--	17.74	--	
		82-04-19	--	16.68	--	
		82-05-18	--	18.25	--	
		82-06-15	--	18.77	--	
		82-07-13	--	15.98	--	
		82-08-19	--	14.61	--	
		82-09-13	--	16.00	--	
		81-10-29	--	19.69	31.02	
302051084123503	WELL SE-34 NR TALLAHASSEE	81-11-30	--	19.77	31.02	110NRSD
		81-12-08	--	19.65	31.02	
		81-12-22	--	19.73	31.02	
		82-01-21	--	14.25	31.02	
		82-02-23	--	17.54	31.02	
		82-03-17	--	19.39	31.02	
		82-04-21	--	17.24	31.02	
		82-05-20	--	18.05	31.02	
		82-07-16	--	16.23	31.02	
		81-10-29	--	26.07	36.99	
302053084115101	WELL SE-9 NR TALLAHASSEE	81-11-17	--	26.13	36.99	120FLRD
		81-12-22	--	25.90	36.99	
		82-01-18	--	25.25	36.99	
		82-02-17	--	24.49	36.99	
		82-03-17	--	24.99	36.99	
		82-04-20	--	23.95	36.99	
		82-05-19	--	26.53	36.99	
		82-06-18	--	26.02	36.99	
		82-07-13	--	23.26	36.99	
		82-08-18	--	22.82	36.99	
302053084115102	WELL SE-10 NR TALLAHASSEE	82-09-13	--	23.27	36.99	120FLRD
		81-10-29	--	28.27	39.20	
		81-11-17	--	28.33	39.20	
		81-12-22	--	28.33	39.20	
		82-01-18	--	27.50	39.20	
		82-02-17	--	26.65	39.20	
		82-03-16	--	27.15	39.20	
		82-04-20	--	26.15	39.20	
		82-05-19	--	27.65	39.20	
		82-06-18	--	28.13	39.20	
302101084123701	WELL SE-33 NR TALLAHASSEE	82-07-16	--	25.37	39.20	110NRSD
		82-08-18	--	24.02	39.20	
		82-09-13	--	25.91	39.20	
		81-10-29	--	15.78	26.95	
		81-11-08	--	15.77	26.95	
		81-12-08	--	15.98	26.95	
		81-12-22	--	15.85	26.95	
		82-01-21	--	18.49	26.95	
		82-02-23	--	12.57	26.95	
		82-03-17	--	13.43	26.95	
302101084123701	WELL SE-33 NR TALLAHASSEE	82-04-29	--	13.33	26.95	110NRSD
		82-05-20	--	14.04	26.95	
		82-07-16	--	12.07	26.95	

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STATION NUMBER	STATION NAME	DATE OF SAMPLE	ELEV- ATION ABOVE NGVD (FEET)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	GEO- LOGIC UNIT
LEON						
302116084123701	WELL SE-1 NR TALLAHASSEE	81-10-28	--	9.09	20.38	120FLRD
		81-11-17	--	9.26	20.38	
		81-12-21	--	9.24	20.38	
		82-01-20	--	8.36	20.38	
		82-02-16	--	7.54	20.38	
		82-03-16	--	7.93	20.38	
		82-04-19	--	6.91	20.38	
		82-05-18	--	8.48	20.38	
		82-06-15	--	8.98	20.38	
		82-07-13	--	6.18	20.38	
		82-08-17	--	4.54	20.38	
		82-09-13	--	6.09	20.38	
		81-10-28	--	35.53	46.88	
		81-11-19	--	35.64	46.88	
		81-12-15	--	35.59	46.88	
302117084113801	WELL SE-19 NR TALLAHASSEE	82-01-18	--	34.80	46.88	120FLRD
		82-02-16	--	34.00	46.88	
		82-03-16	--	34.40	46.88	
		82-04-19	--	33.33	46.88	
		82-05-18	--	34.82	46.88	
		82-06-15	--	35.41	46.88	
		82-07-16	--	32.58	46.88	
		82-08-17	--	31.18	46.88	
		82-09-16	--	32.64	46.88	
		81-10-28	--	21.20	46.16	
		81-10-29	--	9.72	--	
		81-12-08	--	10.27	--	
		81-12-22	--	10.37	--	
		82-01-21	--	8.62	--	
		82-02-23	--	7.59	--	
302117084113802	WELL SE-31 NR TALLAHASSEE	82-03-17	--	7.53	--	120FLRD
		82-04-29	--	7.60	--	
		82-07-16	--	5.44	--	
		82-08-23	--	4.45	--	
		81-10-28	--	47.47	59.44	
		81-11-19	--	47.57	59.44	
		81-12-15	--	47.58	59.44	
		82-01-18	--	46.76	59.44	
		82-02-16	--	45.88	59.44	
		82-03-16	--	46.28	59.44	
		82-04-19	--	44.17	59.44	
		82-05-18	--	45.60	59.44	
		82-06-16	--	47.74	59.44	
		82-07-16	--	44.33	59.44	
		82-08-19	--	42.54	59.44	
		82-09-16	--	44.33	59.44	
302141084114001	WELL SE-18 NR TALLAHASSEE	81-10-28	--	23.87	35.44	120FLRD
		81-11-17	--	24.06	35.44	
		81-12-21	--	24.16	35.44	
		82-01-20	--	23.17	35.44	
		82-02-14	--	20.95	35.44	
		82-02-16	--	22.37	35.44	
		82-03-17	--	22.80	35.44	
		82-04-19	--	21.68	35.44	
		82-05-18	--	23.28	35.44	
		82-06-16	--	23.77	35.44	
		82-07-13	--	20.90	35.44	
		82-08-17	--	19.22	35.44	
		82-09-16	--	20.82	35.44	
		81-10-28	--	23.19	34.80	
		81-11-17	--	23.39	34.80	
		81-12-21	--	23.41	34.80	
302141084123601	WELL SE-14 NR TALLAHASSEE	82-01-20	--	22.53	34.80	120FLRD
		82-02-16	--	21.71	34.80	
		82-03-17	--	22.15	34.80	
		82-04-19	--	21.03	34.80	
		82-05-18	--	22.63	34.80	
		82-06-15	--	23.08	34.80	
302141084123602	WELL SE-15 NR TALLAHASSEE	81-10-28	--	23.19	34.80	120FLRD
		81-11-17	--	23.39	34.80	
		81-12-21	--	23.41	34.80	
		82-01-20	--	22.53	34.80	
		82-02-16	--	21.71	34.80	
		82-03-17	--	22.15	34.80	
		82-04-19	--	21.03	34.80	
		82-05-18	--	22.63	34.80	
		82-06-15	--	23.08	34.80	
		81-10-28	--	23.19	34.80	
		81-11-17	--	23.39	34.80	
		81-12-21	--	23.41	34.80	
		82-01-20	--	22.53	34.80	
		82-02-16	--	21.71	34.80	
		82-03-17	--	22.15	34.80	
		82-04-19	--	21.03	34.80	
		82-05-18	--	22.63	34.80	
		82-06-15	--	23.08	34.80	

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STATION NUMBER	STATION NAME	DATE OF SAMPLE	ELEVATION ABOVE NGVD (FEET)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	GEO-LOGIC UNIT
LEON						
302141084123602	WELL SE-15 NR TALLAHASSEE	82-07-13	--	20.28	34.80	--
		82-08-17	--	18.56	34.80	
		82-09-16	--	20.17	34.80	
302157084115101	WELL SE-6 NR TALLAHASSEE	81-10-29	--	38.14	50.16	120FLRD
		81-11-19	--	38.23	50.16	
		81-12-21	--	38.27	50.16	
		82-01-20	--	37.37	50.16	
		82-02-17	--	36.47	50.16	
		82-03-16	--	36.93	50.16	
		82-04-20	--	35.84	50.16	
		82-05-19	--	37.44	50.16	
		82-06-16	--	37.90	50.16	
		82-07-16	--	34.95	50.16	
		82-08-18	--	33.23	50.16	
		82-09-16	--	34.90	50.16	
302157084115102	WELL SE-7 NR TALLAHASSEE	81-10-29	--	38.81	51.11	120FLRD
		81-11-19	--	38.90	51.11	
		81-12-21	--	38.93	51.11	
		82-01-20	--	37.97	51.11	
		82-02-17	--	37.15	51.11	
		82-03-16	--	37.57	51.11	
		82-04-20	--	36.50	51.11	
		82-05-19	--	38.08	51.11	
		82-06-16	--	38.52	51.11	
		82-07-16	--	35.60	51.11	
		82-08-18	--	33.79	51.11	
		82-09-16	--	35.51	51.11	
302157084115103	WELL SE-36 NR TALLAHASSEE	81-10-29	--	36.52	49.43	110NRSD
		81-11-19	--	36.94	49.43	
		82-01-21	--	34.24	49.43	
		82-02-25	--	33.52	49.43	
		82-03-17	--	34.07	49.43	
		82-04-29	--	32.88	49.43	
302206084194001	USGS LS 13	81-10-23	--	28.04	42.20	120FLRD
		81-12-03	--	28.22	42.20	
		82-05-27	--	26.09	42.20	
302208084123801	WELL SE-12 NR TALLAHASSEE	81-10-28	--	34.52	46.56	120FLRD
		81-11-19	--	34.65	46.56	
		81-12-21	--	34.72	46.56	
		82-01-20	--	33.84	46.56	
		82-02-16	--	33.05	46.56	
		82-03-16	--	33.34	46.56	
		82-04-19	--	32.27	46.56	
		82-05-18	--	31.80	46.56	
		82-06-16	--	34.29	46.56	
		82-07-13	--	31.60	46.56	
		82-08-17	--	29.55	46.56	
		82-09-14	--	32.08	46.56	
302212084114401	WELL SE SUPPLY NR TALLAHASSEE	82-02-25	--	31.39	46.61	120FLRD
		82-03-16	--	31.98	46.61	
302233084194101	USGS LS 5	81-10-20	16.31	33.98	50.29	120FLRD
		81-12-02	15.96	34.33	50.29	
		82-05-27	18.09	34.40	50.29	
302234084193901	USGS LS 14	81-10-23	--	29.56	44.52	120FLRD
		81-12-03	--	29.80	44.52	
		82-02-22	--	28.07	44.52	
		82-05-27	--	27.63	44.52	
302235084190301	USGS LS 4	81-12-03	15.62	28.59	44.56	120FLRD
		82-05-27	20.93	26.38	44.56	
302251084185301	SPRAY IRRIGATION PROJECT WELL BL 3	81-10-22	17.26	23.38	--	--
		82-02-22	20.75	21.29	--	
		82-02-22	20.22	21.82	--	
		82-04-27	21.44	20.60	--	
		82-05-24	20.38	21.66	--	
		82-06-22	20.75	21.29	--	
		82-07-20	22.62	19.42	--	

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STATION NUMBER	STATION NAME	DATE OF SAMPLE	ELEVATION ABOVE NGVD (FEET)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	GEO-LOGIC UNIT
LEON						
302251084185301	SPRAY IRRIGATION PROJECT WELL BL 3	82-08-26	25.98	16.06	--	--
		82-09-21	24.77	17.27	--	--
302252084192901	USGS LS 22	81-10-20	16.24	32.33	48.64	--
		81-12-02	15.90	32.67	48.64	--
		82-05-27	18.64	30.53	48.64	--
302257084191101	USGS LS26	81-10-20	16.47	36.80	53.27	120FLRD
		81-12-03	16.03	37.24	53.27	120FLRD
		82-05-27	20.04	35.13	53.27	120FLRD
302258084193001	USGS LS17	81-10-20	16.40	32.08	48.73	120FLRD
		81-12-01	16.04	32.44	48.73	120FLRD
		82-05-26	18.95	30.28	48.73	120FLRD
302301084192902	USGS LS 18	81-10-20	16.58	41.72	58.25	--
		81-12-01	16.19	42.11	58.25	--
		82-05-26	18.80	39.95	58.25	--
302303084213701	SLUDGE FIELD WELL #1 NR TALLAHASSEE AIRPORT, FLA	81-10-21	14.59	20.69	--	120FLRD
302308084195301	USGS LS 6	81-12-04	16.16	24.30	40.58	120FLRD
		82-05-28	20.88	22.18	40.58	120FLRD
302309084185701	BOG 6-5	81-10-19	--	46.40	--	--
		81-12-04	--	46.99	--	--
		82-01-04	--	46.78	--	--
		82-01-26	--	45.85	--	--
		82-02-22	--	44.80	--	--
		82-03-23	--	44.33	--	--
		82-04-27	--	43.50	--	--
		82-05-25	--	44.77	--	--
		82-06-22	--	44.50	--	--
		82-07-20	--	42.00	--	--
302314084190902	BOG 4-2	81-10-19	--	38.50	--	--
		81-12-03	--	38.87	--	--
		82-01-26	--	37.25	--	--
		82-03-23	--	36.38	--	--
		82-05-28	--	36.77	--	--
		82-07-20	--	34.50	--	--
302315084192801	USGS LS 21	81-10-19	--	41.46	58.32	--
		81-12-01	--	41.86	58.32	--
		82-01-26	--	41.18	58.32	--
		82-05-26	--	39.74	58.32	--
		82-07-20	--	37.56	58.32	--
302319084220601	USGS LS24	81-10-23	14.82	90.23	105.50	120FLRD
302334084222901	SLUDGE FIELD WELL #3 NR TALLAHASSEE AIRPORT, FLA	81-10-22	15.02	61.71	--	120FLRD
302341084222501	SLUDGE FIELD WELL #2 NR TALLAHASSEE AIRPORT, FLA	81-10-22	15.04	39.93	--	120FLRD
302410084200001	LOCAL NO.024-420-1	81-10-20	21.07	16.44	37.51	120FLRD
		81-11-18	20.61	16.90	37.51	120FLRD
		81-12-15	20.35	17.16	37.51	120FLRD
		82-01-22	20.79	16.72	37.51	120FLRD
		82-02-23	21.82	15.69	37.51	120FLRD
		82-03-23	22.20	15.31	37.51	120FLRD
		82-04-21	22.53	14.98	37.51	120FLRD
		82-05-10	22.31	15.20	37.51	120FLRD
		82-06-18	21.49	16.02	37.51	120FLRD
		82-07-22	23.86	13.65	37.51	120FLRD
302410084200001	LOCAL NO.024-420-1	82-08-25	27.26	10.25	37.51	120FLRD
		82-09-23	26.22	11.29	37.51	120FLRD
302410084200002	LOCAL NO.024-420-2 (150-A)	81-10-20	28.50	9.02	37.52	110NRSD
		81-11-18	28.16	9.36	37.52	110NRSD
		81-12-15	28.03	9.49	37.52	110NRSD
		82-01-22	28.28	9.24	37.52	110NRSD
		82-02-23	28.73	8.79	37.52	110NRSD
		82-03-23	28.40	9.12	37.52	110NRSD
		82-04-21	28.46	9.06	37.52	110NRSD
		82-05-10	28.11	9.41	37.52	110NRSD
		82-06-18	28.47	9.05	37.52	110NRSD
		82-07-22	29.28	8.24	37.52	110NRSD

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STATION NUMBER	STATION NAME	DATE OF SAMPLE	ELEV- ATION ABOVE NGVD (FEET)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	GEO- LOGIC UNIT
LEON						
302410084200002	LOCAL NO.024-420-2 (150-A)	82-08-25	31.79	5.73	37.52	110NRS
		82-09-23	32.18	5.34	37.52	
302518084192401	LOCAL NO.025-419-441	81-11-18	18.89	70.97	89.86	120FLRD
		82-05-10	21.10	68.76	89.86	
303447084072401	LOCAL NO.034-407-1	81-10-23	48.41	174.29	222.70	120FLRD
		81-11-18	47.90	174.80	222.70	
		81-12-18	47.35	175.35	222.70	
		82-01-19	47.36	175.34	222.70	
		82-02-25	48.13	174.57	222.70	
		82-03-23	48.44	174.26	222.70	
		82-04-19	48.24	174.46	222.70	
		82-05-07	48.49	174.21	222.70	
		82-06-17	47.87	174.83	222.70	
		82-07-26	48.11	174.59	222.70	
		82-08-19	48.83	173.87	222.70	
		82-09-24	48.80	173.90	222.70	
LEVY						
291004082382901	91023801 15S16E24 910238433 DIXIE LIME PR	81-11-03	23.07	6.10	29.17	120FLRD
		82-05-11	23.82	5.35	29.17	
		82-09-13	25.19	--	29.17	
		82-09-28	27.84	1.33	29.17	
291048083011801	15S13E17 910301212	81-11-02	1.49	6.95	8.44	120FLRD
291247082335301	GOLDEN PARK	81-11-03	34.50	41.50	76.00	120FLRD
291508082432901	GULF HAMMOCK	81-11-03	9.37	3.83	13.20	120FLRD
		82-09-28	10.12	3.08	13.20	
291712082351801	SOUTH OF BONSON-RO	82-05-11	46.16	56.35	102.51	120FLRD
		82-09-13	52.19	--	102.51	
		82-09-28	52.49	50.02	102.51	
291806082545601	918254331 13S14E33 TEST 2 USGS	81-11-02	17.80	5.70	24.00	120FLRD
292235083025501	VISTA BOAT RAMP	81-11-02	0.02	5.02	5.00	120FLRD
292310082373701	ERCELL SMITH	81-11-03	52.76	8.61	61.37	120FLRD
		82-05-11	54.28	7.09	61.37	
		82-09-13	58.31	--	61.37	
292507082560201	AJ MIMS	81-11-02	10.81	22.19	33.00	120FLRD
292640082381201	92623801 12S17E17 926238241 HARDEE HOTEL	81-11-03	48.67	20.31	68.98	120FLRD
		82-05-11	52.38	16.60	68.98	
		82-09-13	56.93	--	68.98	
		82-09-28	54.52	14.46	68.98	
292843082514201	928251141 11S14E36 DRUMMOND LUMBER CO	81-11-02	12.80	22.20	35.00	120FLRD
292916082435501	CB GARNER	81-11-02	38.81	14.19	53.00	120FLRD
293113082454601	EAST OF CHIEFLAND	81-11-02	25.67	31.33	57.00	120FLRD
LIBERTY						
300152084592701	LOCAL NO.001-459-1	81-11-16	21.36	8.14	29.50	120FLRD
		82-05-13	23.91	5.59	29.50	
300813084555701	PLACID OIL CO SUPPLY WELL	81-11-16	35.43	16.57	52.00	120FLRD
		82-05-13	37.40	14.60	52.00	
301035084403701	PORTER LAKE REC AREA	81-10-21	30.97	-8.70	22.27	120FLRD
		81-11-16	30.87	-8.60	22.27	
		81-12-15	31.07	-8.80	22.27	
		82-01-19	33.07	-10.80	22.27	
		82-02-23	32.87	-10.60	22.27	
		82-03-26	33.27	-11.00	22.27	
		82-04-22	33.07	-10.80	22.27	
		82-05-13	32.27	-10.00	22.27	
		82-06-22	32.37	-10.10	22.27	
		82-07-23	33.27	-11.00	22.27	
		82-08-25	33.07	-10.80	22.27	
		82-09-23	32.87	-10.60	22.27	

MISCELLANEOUS WATER LEVEL MEASUREMENTS
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STATION NUMBER	STATION NAME	DATE OF SAMPLE	ELEV- ATION ABOVE NGVD (FEET)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	GEO- LOGIC UNIT
LIBERTY						
302823084560601	ST. JOE PAPER CO. WELL N. OF BRISTOL, FLA.	81-11-13 82-05-27	127.50 128.11	87.00 86.39	214.40 214.40	120FLRD
MADISON						
301817083351001	COUNTY LINE	81-11-03 82-08-03 82-09-27	81.77 84.87 84.19	11.43 8.33 9.01	91.05 91.05 91.05	120FLRD
302100082314701	SAMPALA SWAMP	81-11-02	81.53	40.75	122.30	120FLRD
302100083171001	NORRIS S. OF LEE	81-11-02 82-05-27 82-08-03	45.61 50.18 51.04	41.82 37.25 36.39	87.43 87.43 87.43	120FLRD
302124083260501	SINCLAIR TOWER WELL	81-11-02	86.41	18.59	108.00	120FLRD
302532083420801	MONROE	81-11-02	71.84	16.25	88.09	120FLRD
302806083180901	HITCHCOCK	81-11-03	46.62	68.06	115.68	120FLRD
302822083255501	LOCAL NO.18 MADISON	81-11-02 82-05-24 82-08-03 82-09-28	68.23 72.41 73.09 71.79	32.53 28.15 27.47 28.77	100.56 100.56 100.56 100.56	120FLRD
302824083400901	GREENVILLE COOKS LUMBER WELL	81-11-03 82-05-27 82-08-03 82-09-27	71.61 73.64 74.21 73.80	23.22 21.19 20.62 21.03	96.38 96.38 96.38 96.38	120FLRD
302914083300901	TRAMER RANCH	81-11-02	71.02	43.98	115.00	120FLRD
302928083431901	WEST OF GREENVILLE	81-11-03	70.78	35.95	106.73	120FLRD
303212083174301	GIBSON TOWER PINETTA	81-11-02	52.52	112.48	165.00	120FLRD
303332083330201	N.E. OF GREENVILLE	81-11-03	79.66	45.34	125.00	120FLRD
303513083271201	WAYNE COODY	81-11-03	70.01	74.48	144.49	120FLRD
303626083172001	JIM ARNOLD NR. PINETTA	81-11-02 82-08-03	59.37 63.00	30.81 27.18	90.20 90.20	120FLRD
OKALOOSA						
302338086352601	WAYSIDE PARK	81-11-19 82-01-20 82-03-23	-105.00 -75.42 -87.64	117.00 87.42 99.64	12.00 12.00 12.00	120FLRD
302431086440301	BILL COLLIER WELL AT FLOROSA, FL	81-11-20 82-01-20 82-03-23 82-05-04 82-07-27 82-09-00	-42.28 -38.38 -36.44 -40.79 -45.13 -45.01	51.28 47.38 45.44 49.79 54.13 54.01	9.00 9.00 9.00 9.00 9.00 9.00	120FLRD
302505086355501	FT WALTON BEACH WELL 5	81-11-14 82-01-06 82-03-01 82-05-01 82-09-04	-80.90 -56.50 -54.90 -68.50 -72.40	88.90 64.50 62.90 76.50 80.40	8.00 8.00 8.00 8.00 8.00	120FLRD
302857086310701	B-910 EGLIN HARDSTAND 1	81-11-18 82-01-20 82-03-23 82-05-05	-39.40 -33.79 -36.80 -44.50	105.40 99.79 102.80 110.50	66.00 66.00 66.00 66.00	120FLRD
302857086310701	B-910 EGLIN HARDSTAND 1	82-07-28	-44.90	110.90	66.00	120FLRD
303021086351601	B-4204 EGLIN 27 FLD 4-2	81-11-18 82-01-20 82-03-23 82-05-05 82-09-15	-15.87 -12.52 -11.89 -19.39 -17.80	105.20 101.85 101.22 108.72 107.13	89.33 89.33 89.33 89.33 89.33	120FLRD
303745086442101	B-6204 EGLIN 31	81-11-18 82-05-05	30.30 27.55	104.80 107.55	135.10 135.10	120FLRD
304518086334001	CRESTVIEW NO 4	81-11-30 82-05-11	62.30 60.88	167.70 169.12	230.00 230.00	120FLRD

MISCELLANEOUS WATER LEVEL MEASUREMENTS
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STATION NUMBER	STATION NAME	DATE OF SAMPLE	ELEVATION ABOVE NGVD (FEET)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	GEO-LOGIC UNIT
OKALOOSA						
304801086403101	BAKER NO 1	81-11-30	68.50	176.50	245.00	120FLRD
305530086322701	W.D.FLOURNOY JR. WELL	81-11-30 82-05-11	152.95 155.68	26.05 23.32	179.00 179.00	120FLRD
305615086284801	FLA FOR.SER. LAUREL HILL	81-11-30 82-05-11	168.27 171.25	121.73 118.75	290.00 290.00	120FLRD
SUWANNEE						
295737082480801	SCHUSSLER	81-11-03	13.72	39.28	53.00	120FLRD
295857082524101	BRANFORD VET CLINIC	81-11-02	27.04	23.96	51.00	120FLRD
300138082562701	ROBERTS-OBRIEN	81-11-03	17.62	34.18	54.80	120FLRD
300205082484401	BUCK CAROL	81-11-03	32.61	74.40	107.01	120FLRD
300400082585001	LOCAL NO.004-258-334	81-11-03 82-08-10 82-09-27	14.55 18.29 19.08	42.45 38.71 37.92	-- -- --	120FLRD
300631082534701	MT.PISGAH	81-11-03	32.94	63.90	96.84	120FLRD
300718083112301	LURAVILLE	81-11-03	20.82	36.18	57.00	120FLRD
300824083043101	CURTIS JOHNSON WELL	81-11-03	22.97	37.51	60.48	120FLRD
301149082593801	J A CROFT	81-11-03	35.44	66.48	102.92	120FLRD
301305082552701	ROBERT O NEAL	81-11-02	41.93	106.07	148.00	120FLRD
301534083121501	W R MOUNGER	81-11-03	36.05	50.25	86.30	120FLRD
301610082593001	BUDDY NOTT	81-11-03 82-05-28 82-08-10 82-09-29	40.79 39.90 40.78 41.89	62.44 63.33 62.45 61.34	103.23 103.23 103.23 103.23	120FLRD
301839083084901	BETTY DUNAWAY	81-11-02	32.87	49.80	82.67	120FLRD
301909082490901	LOCAL NO.019-249-1	81-11-02	49.76	40.43	90.19	120FLRD
301909082490901	LOCAL NO.019-249-1	82-05-27 82-08-02 82-09-27	52.21 55.92 53.63	37.98 34.27 36.56	90.19 90.19 90.19	120FLRD
301956082574301	NORTH OF LIVEOAK	81-11-02 82-05-28 82-08-02 82-09-27	42.48 43.93 45.10 45.45	96.73 95.28 94.11 93.76	139.21 139.21 139.21 139.21	120FLRD
301959083115001	BRAY	81-11-02	27.75	33.60	61.35	120FLRD
302333083035701	FORT UNION	81-11-02	35.12	73.88	110.00	120FLRD
TAYLOR						
294642083193401	TENNILLE	81-11-02	8.11	14.46	22.57	120FLRD
294857083344301	CEDAR ISLAND	81-11-02	-0.05	5.05	5.00	120FLRD
295307083245401	HUDSON	81-11-02 82-08-03 82-09-27	36.08 37.99 37.10	2.58 0.67 1.56	38.66 38.66 38.66	120FLRD
295333083383801	EZELL CAMP	81-11-02	0.98	3.02	4.00	120FLRD
295735083263901	SOUTH OF ATHENA SRWMD	81-11-02	56.08	4.08	60.16	120FLRD
300224083430501	HAMPTON SPRINGS TOWER	81-11-02	8.83	18.28	23.00	120FLRD
300332083542601	ECONFINA LANDING	81-11-02	3.83	0.17	4.00	120FLRD
300334083481601	HUNT CAMP-FRANKLYNE	81-11-02	5.02	3.98	9.00	120FLRD
300447083343001	PERRY AIRBASE	81-11-02 82-08-03 82-09-27	33.94 39.21 37.21	12.97 7.70 9.70	44.00 44.00 44.00	120FLRD
300539083410301	WEST OF HAMPTON SPRINGS SRWMD	81-11-02	22.98	5.39	28.37	120FLRD
300837083340601	LOUIS WEBB WELL	81-11-02	38.98	13.02	52.00	120FLRD

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STATION NUMBER	STATION NAME	DATE OF SAMPLE	ELEV- ATION ABOVE NGVD (FEET)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	GEO- LOGIC UNIT
TAYLOR						
300851083580801	NUTALL RISE	81-11-02	-0.18	5.18	5.00	120FLRD
300949083481301	OAKLAND CHURCH	81-11-02	18.67	9.33	28.00	120FLRD
301234083532201	CABBAGE GROVE	81-11-02	12.30	14.70	27.00	120FLRD
UNION						
295701082253001	BUTLER FORMAN	81-11-03	49.64	87.66	137.30	120FLRD
295932082311701	V. C. BROOKS PROVIDENCE	81-11-06	40.06	96.94	137.00	120FLRD
300101082245201	LOCAL NO.001-224-1	81-11-06	53.72	98.33	152.05	120FLRD
		82-05-12	55.91	96.14	152.05	
		82-05-27	55.60	96.45	152.05	
		82-08-06	56.55	95.50	152.05	
		82-09-14	57.08	94.97	152.05	
300615082130501	RAIFORD	81-11-06	54.99	92.68	149.17	120FLRD
		82-05-12	57.32	90.35	149.17	
WAKULLA						
300540084174001	WAKULLA 19	81-10-21	5.02	3.97	8.99	120FLRD
		81-11-13	5.88	3.11	8.99	
		81-12-15	7.46	1.53	8.99	
		82-01-22	7.64	1.35	8.99	
		82-02-23	7.43	1.56	8.99	
		82-03-26	7.91	1.08	8.99	
		82-04-22	7.21	1.78	8.99	
		82-05-12	6.09	2.90	8.99	
		82-05-18	5.70	3.29	8.99	
		82-06-16	4.74	4.25	8.99	
		82-07-22	7.56	1.43	8.99	
		82-08-20	7.57	1.42	8.99	
		82-09-22	7.92	1.07	8.99	
300917084121301	LOCAL NO.2 ST. MARKS	81-10-21	1.36	2.39	3.75	120FLRD
		81-11-13	1.25	2.50	3.75	
		81-12-16	2.07	1.68	3.75	
		82-01-22	1.95	1.80	3.75	
		82-02-26	2.01	1.74	3.75	
		82-04-22	1.82	1.93	3.75	
		82-05-12	1.68	2.07	3.75	
		82-06-21	3.05	0.70	3.75	
		82-07-22	2.69	1.06	3.75	
		82-08-20	2.44	1.31	3.75	
		82-09-22	2.53	1.22	3.75	
301115084241201	ARRAN WORK CENTER	81-10-21	27.22	7.78	35.00	120FLRD
		81-11-13	27.00	8.00	35.00	
		81-12-15	26.97	8.03	35.00	
		82-01-19	29.07	5.93	35.00	
		82-02-23	29.61	5.39	35.00	
		82-03-26	30.15	4.85	35.00	
		82-04-26	30.34	4.66	35.00	
		82-05-10	29.26	5.74	35.00	
		82-06-22	31.30	3.70	35.00	
		82-07-22	30.51	4.49	35.00	
		82-08-20	30.95	4.05	35.00	120FLRD
		82-09-22	30.57	4.43	35.00	
301156084103501	LOCAL NO.011-410-1	81-10-21	5.34	1.62	6.96	120FLRD
		81-11-13	5.38	1.58	6.96	
		81-12-16	5.69	1.27	6.96	
		82-01-22	5.98	0.98	6.96	
		82-02-26	5.93	1.03	6.96	
		82-03-25	7.15	-0.19	6.96	
		82-04-22	6.05	0.91	6.96	
		82-05-12	5.72	1.24	6.96	
		82-06-21	7.78	-0.82	6.96	
		82-07-22	6.37	0.59	6.96	
		82-08-20	6.30	0.66	6.96	
		82-09-22	7.35	-0.39	6.96	

MISCELLANEOUS WATER LEVEL MEASUREMENTS
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STATION NUMBER	STATION NAME	DATE OF SAMPLE	ELEV- ATION- ABOVE NGVD (FEET)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD)	GEO- LOGIC UNIT
WALTON						
302442086130701	S L MATTHEWS WELL	81-11-19	7.85	-2.85	5.00	120FLRD
		82-01-20	7.99	-2.99	5.00	
		82-03-22	8.56	-3.56	5.00	
		82-05-04	8.06	-3.06	5.00	
		82-07-28	7.12	-2.12	5.00	
303053086075301	J M THOMPSON WELL	81-11-19	19.21	40.58	59.79	120FLRD
		82-05-04	16.85	40.94	59.79	
303434086130301	B-8631 EGLIN AFB	81-11-19	36.49	104.05	141.94	120FLRD
303454085560601	WELL 43	81-11-18	22.84	153.16	174.00	120FLRD
		82-05-04	26.30	149.70	174.00	
304044086211601	B-1204 EGLIN LOCAL NO 19	81-11-18	77.51	153.20	231.00	120FLRD
		82-05-26	84.33	146.38	231.00	
304334086032401	ARGYLE TOWER FFS	81-11-18	83.40	177.60	261.00	120FLRD
		82-05-11	84.23	176.77	261.00	
304358086120801	BSA CAMP LK EUCHEE WELL	81-11-17	122.20	151.80	274.00	120FLRD
		82-05-24	123.20	150.80	274.00	
305043086083301	RAY PETER WELL	81-11-30	183.20	95.80	279.00	120FLRD
		82-05-11	183.48	95.52	279.00	
305110086164801	C GEOGHAGAN WELL	81-11-30	170.40	84.60	255.00	120FLRD
		82-05-11	171.70	83.30	255.00	
305247086030901	WELL 52	81-11-30	120.77	184.00	304.77	120FLRD
		82-05-11	115.31	189.46	304.77	
305359086122601	JACKSON STILL TOWER	81-11-30	189.95	70.05	260.00	120FLRD
		82-05-11	187.02	72.98	260.00	
305804086180901	FLA WELCOME STA PAXTON	81-11-30	209.85	114.15	324.00	120FLRD
		82-05-11	214.17	109.83	324.00	

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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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