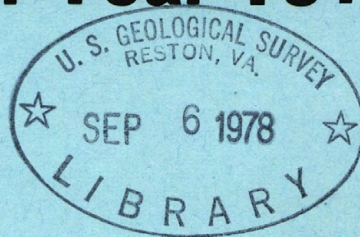


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Water Resources Data for Georgia Water Year 1977



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U.S. GEOLOGICAL SURVEY WATER-DATA REPORT GA-77-1

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

CALENDAR FOR WATER YEAR 1977

1976

OCTOBER

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Water Resources Data for Georgia Water Year 1977



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT GA-77-1

**Prepared in cooperation with the State of Georgia and with
other agencies**

UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

H. William Menard, Director

For information on the water program in Georgia write to
District Chief, Water Resources Division
U. S. Geological Survey
6481 Peachtree Industrial Boulevard, Suite B
Doraville, Georgia 30360

1978

PREFACE

This report was prepared by personnel of the Georgia district of the Water Resources Division of the U.S. Geological Survey under the supervision of J. R. George, District Chief, and L. B. Laird, Regional Hydrologist, Southeastern Region. It was done in cooperation with the State of Georgia and with other agencies.

This report is one of a series issued State by State. General direction for the series is by J. S. Cragwall, Jr., Chief Hydrologist, U.S. Geological Survey, and G. W. Whetstone, Assistant Chief Hydrologist for Scientific Publications and Data Management.

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VI GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

[Letters after station names designate type of data:

(d) discharge, (g) gage height, (c) chemical, (b) biological,
(m) microbiological, (t) water temperature, (s) sediment]

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WATER RESOURCES DATA FOR GEORGIA, 1977

INTRODUCTION

Water resources data for the 1977 water year for Georgia consists of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs. This report contains discharge records for 100 gaging stations; stage for 9 gaging stations; stage and contents for 16 lakes and reservoirs; water quality for 19 continuous stations and 110 periodic stations and peak-stage and discharge only for 151 crest-stage partial record stations. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Georgia.

Records of discharge or stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, Eastern Region, U.S. Geological Survey, 604 South Pickett Street, Alexandria, VA 22304.

For water years 1961 through 1974, streamflow data were released by the 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 as an official Survey report 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 report is identified as "U.S. Geological Survey Water Data Report GA-77-1." Water data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

COOPERATION

The U.S. Geological Survey and organizations of the State of Georgia had cooperative agreements for the systematic collection of streamflow records since 1896, and for water-quality records since 1937. Organizations that supplied data are acknowledged in station descriptions. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Georgia Department of Natural Resources, Joe D. Tanner,
Commissioner, through the Geologic and Water Resources Division,
Sam Pickering, Jr., Director, and through the Division of Environmental Protection, J. Leonard Ledbetter, Director.

Georgia Department of Transportation, Thomas D. Moreland, Commissioner.

Assistance in the form of funds and/or services was given by the following Federal agencies:

Corps of Engineers, U.S. Army
Environmental Protection Agency
Federal Highway Administration, U.S. Department of Transportation
Tennessee Valley Authority
Soil Conservation Service, U.S. Department of Agriculture
National Weather Service, NOAA, U.S. Department of Commerce

The following organizations aided in collecting records:

Georgia Power Company
Alabama Power Company
Crisp County Power Commission
Bibb County
DeKalb County
Macon-Bibb County Water & Sewerage Authority
City of Covington
City of East Point
City of Valdosta

HYDROLOGIC CONDITIONS

Runoff for the year was near normal throughout the State except in the southeast where it was excessive (in the upper 25 percent of record). At the key index station in the south, Alapaha River near Statenville, annual runoff was 176 percent of the median. At the Etowah River at Canton and Oconee River near Greensboro gaging stations the runoff was 100 and 91 percent of median, respectively.

The monthly runoff was generally well above median from October through April except for February. In May and June monthly runoff was normal in the north and deficient (in the lowest 25 percent of record) in the south. It was deficient throughout the State in July and deficient only in the central area of the State in August. In September runoff was excessive in the northeast and normal elsewhere.

In late March and early April heavy rains caused moderate to severe flooding of local streams in the northwest. Many of these streams reached flood levels with recurrence intervals of 10 to 25 years and a few reached flood levels with recurrence intervals as high as 100 years.

Rainfall was well below normal from late April until mid-July resulting in severe agricultural damage throughout the State and considerable drought publicity. However, streamflow was generally well above normal at the onset of this period and in the north flows did not recede to exceptional low levels before the drought was relieved. In the south some streams receded to low levels with a recurrence interval of more than 5 years.

Based on records for three long term representative gaging stations, figure 1 on page 23 shows graphically that monthly flows were generally well above normal until April, except for February, and receded during the drought of May through July.

DEFINITION OF TERMS

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

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

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, 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, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as the organisms which produce colonies 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 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.

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

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

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

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

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

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

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

Bottom material: See Bed material.

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

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

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 pigments in plants.

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

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

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

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

Cubic 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, ft³/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

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

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

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

Dissolved refers to the amount of substance present in true chemical solution. In practice, however, the term includes all forms of substance that will pass through a 0.45-micrometer membrane filter, and thus may include some very small (coloidal) 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 noncontribution 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 (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

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

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate (CaCO_3).

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

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

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

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

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

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology.

The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay.....	0.00024 - 0.004	Sedimentation
Silt.....	.004 - .062	Sedimentation
Sand.....	.062 - 2.	Sedimentation or sieve
Gravel.....	2.0 - 64.0	Sieve

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

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants, respectively, are the two categories reported.

Picocurie (PC, pCi) is one trillionth (1×10^{12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (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 the 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/mL of sample.

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

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

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

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

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

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

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Suspended-sediment load is quantity of suspended sediment passing a section in a specified period.

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

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

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

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

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

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

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

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

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of the total concentration in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) that material retained on a 4.56 micrometer filter.

WRD is used as an abbreviation for "Water-Resources Data" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published before 1975.

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

DOWNSTREAM ORDER AND STATION NUMBER

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

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 03041000, which appears just to the left of the station name, includes the 2-digit part number "03" plus the 6-digit downstream order number "041000".

SPECIAL NETWORKS AND PROGRAMS

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.

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

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.

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

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

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

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

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

At some northern stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in 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 and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30.

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

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

The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified.

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

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year.

Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the 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 table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

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

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

Data collected at partial-record stations follow the information for continuous record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of partial-record stations.

Accuracy of field data and computed results

The accuracy of streamflow 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 are 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.

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 diversion, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other data available

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

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

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

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.

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, sediment discharge, etc.); extremes for the period of daily record; extremes for the current year; and general remarks.

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 concentrations of solute at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

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

For chemical-quality stations equipped with digital monitors, published 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. Mean values and more detailed records (hourly values) may be obtained from the district office.

Water temperature

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

At stations where recording instruments are used, either once-daily temperatures or maximum and minimum temperatures for each day are published.

Sediment

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

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method.

For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

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

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

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

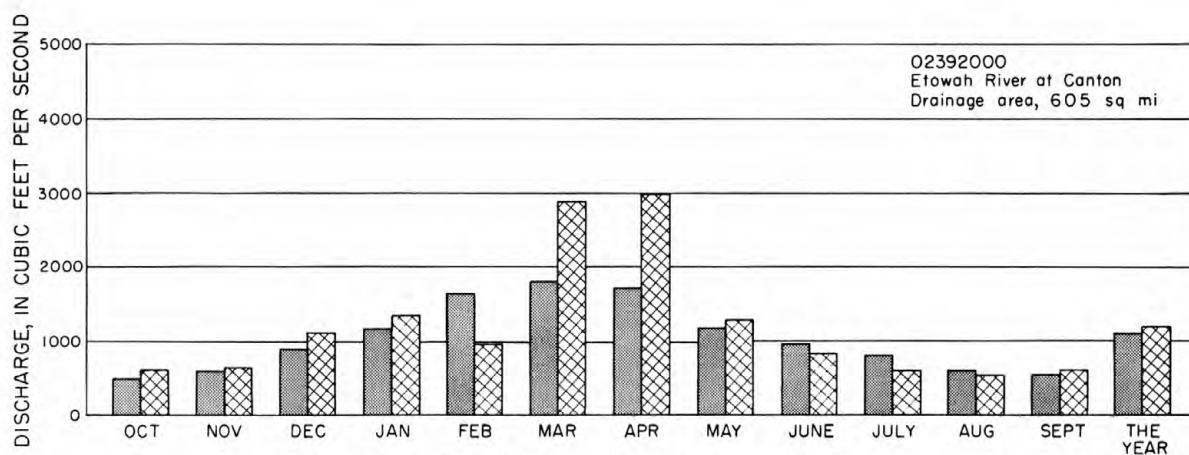
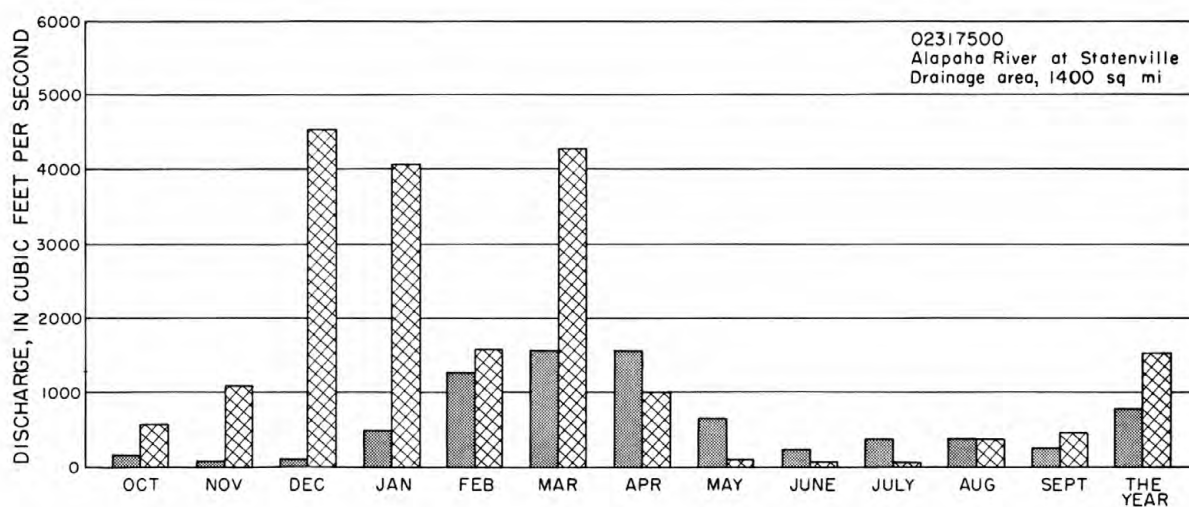
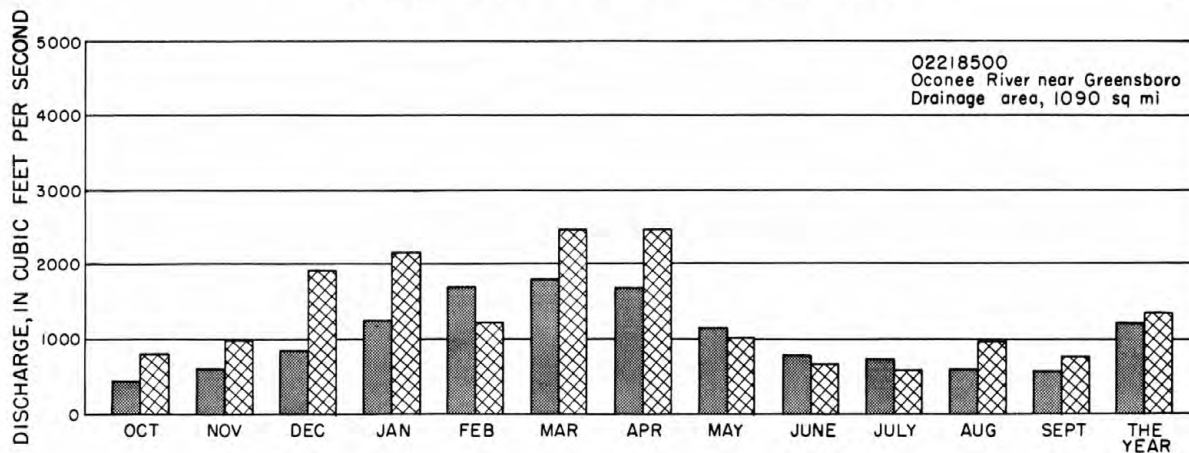
Thirty-one manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections 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 revisions 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 Street, 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, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".

- 1-D1. Water temperature-influential factors, field measurement, and data presentation, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 p. \$1.60.
- 2-D1. Application of surface geophysics to ground-water investigations, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages. \$1.90.
- 2-E1. Application of borehole geophysics to water-resources investigations, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages. \$1.75.
- 3-A1. General field and office procedures for indirect discharge measurements, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages. \$0.25.

- 3-A2. Measurement of peak discharge by the slope-area method, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages. \$0.20.
- 3-A3. Measurement of peak discharge at culverts by indirect methods, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages. \$0.40.
- 3-A4. Measurement of peak discharge at width contractions by indirect methods, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages. \$1.00.
- 3-A5. Measurement of peak discharge at dams by indirect methods, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages. \$0.30.
- 3-A6. General procedure for gaging streams, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages. \$0.20.
- 3-A7. Stage measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages. \$0.45.
- 3-A8. Discharge measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages. \$1.25.
- 3-A11. Measurement of discharge by moving-boat method, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages. \$0.40.
- 3-A12. Fluorometric procedures for dye tracing, by J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages. \$0.35. Not currently available.
- 3-B1. Aquifer-test design, observation, and data analysis, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages. \$0.70.
- 3-B2. Introduction to ground-water hydraulics--a programmed text for self-instruction, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-C1. Fluvial sediment concepts, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages. \$0.65.
- 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. \$0.70.
- 3-C3. Computation of fluvial-sediment discharge, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages. \$1.15.
- 4-A1. Some statistical tools in hydrology, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages. \$0.30.
- 4-A2. Frequency curves, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages. \$0.20.
- 4-B1. Low-flow investigations, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages. \$0.65.
- 4-B2. Storage analyses for water supply, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages. \$0.75.
- 4-B3. Regional analyses of streamflow characteristics, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages. \$0.75.
- 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. \$0.65.

- 5-A1. Methods for collection and analysis of water samples for dissolved minerals and gases, by Eugene Brown, M. W. Skougstad, and M. J. Fishman: USGS--TWRI Book 5, Chapter A1. 1970. 160 pages. \$2.40.
- 5-A2. Determination of minor elements in water by emission spectroscopy, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages. \$0.80.
- 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. \$0.90.
- 5-A4. Methods for collection and analysis of aquatic biological and microbiological samples, by K. V. Slack, R. C. Averett, P. E. Greeson, and R. G. Lipscomb: USGS--TWRI Book 5, Chapter A4. 1973. 165 pages. \$1.95.
- 5-C1. Laboratory theory and methods for sediment analysis, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages. \$0.65.
- 7-C1. Finite-difference model for aquifer simulation in two dimensions with results of numerical experiments, by P. C. Trescott, G. F. Pinder, and S. P. Lawson: USGS--TWRI Book 7, Chapter C1. 1976. 116 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. \$0.70.
- 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. \$0.40.



E X P L A N A T I O N

- Median of monthly and yearly mean discharges for 30-year reference period.
- Monthly and yearly mean discharges during 1977 water year.

Figure 1.—Comparison of discharge at three long-term representative gaging stations during 1977 water year with median discharge for 30-year reference period.

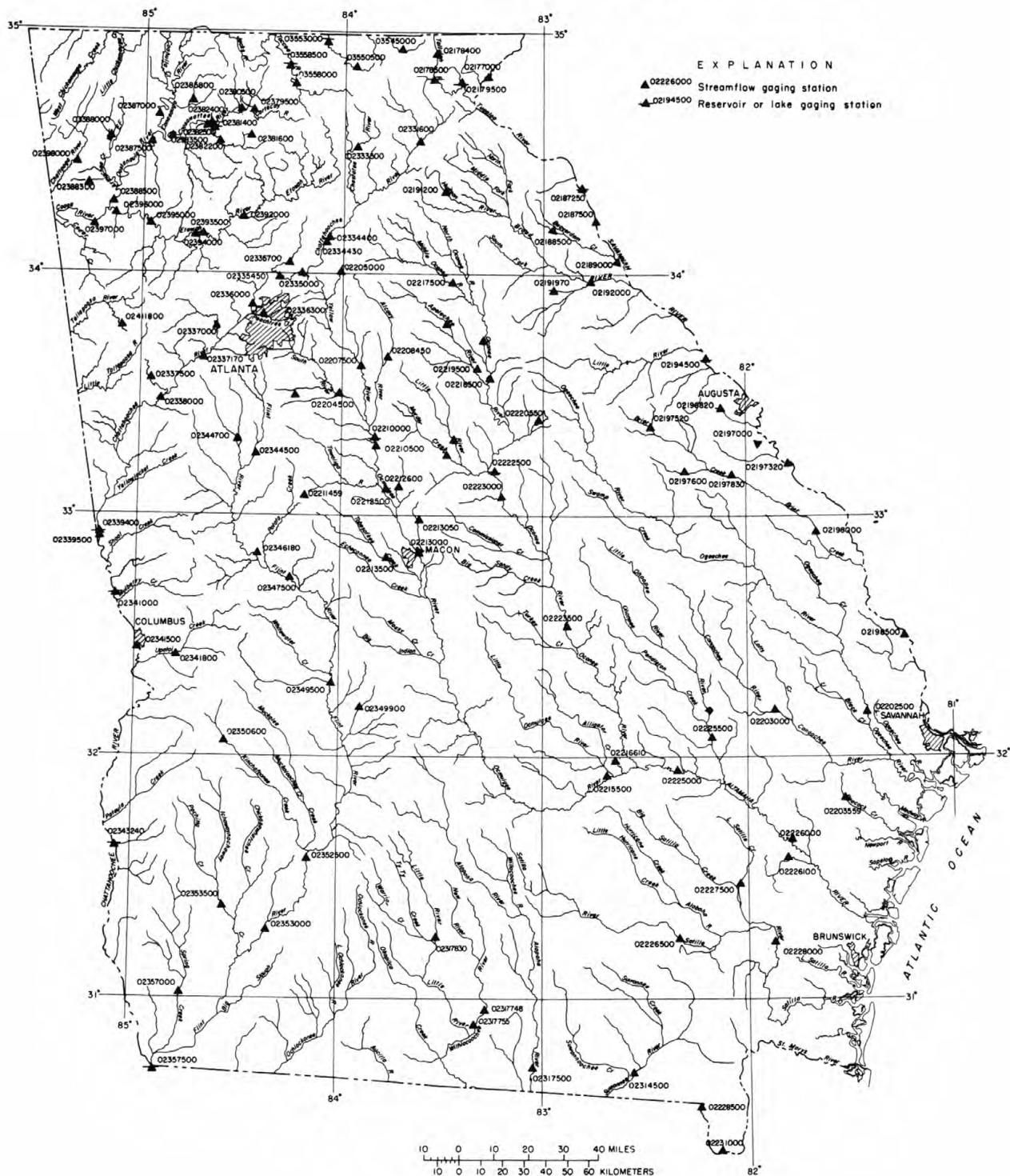


Figure 2.—Location of gaging stations.

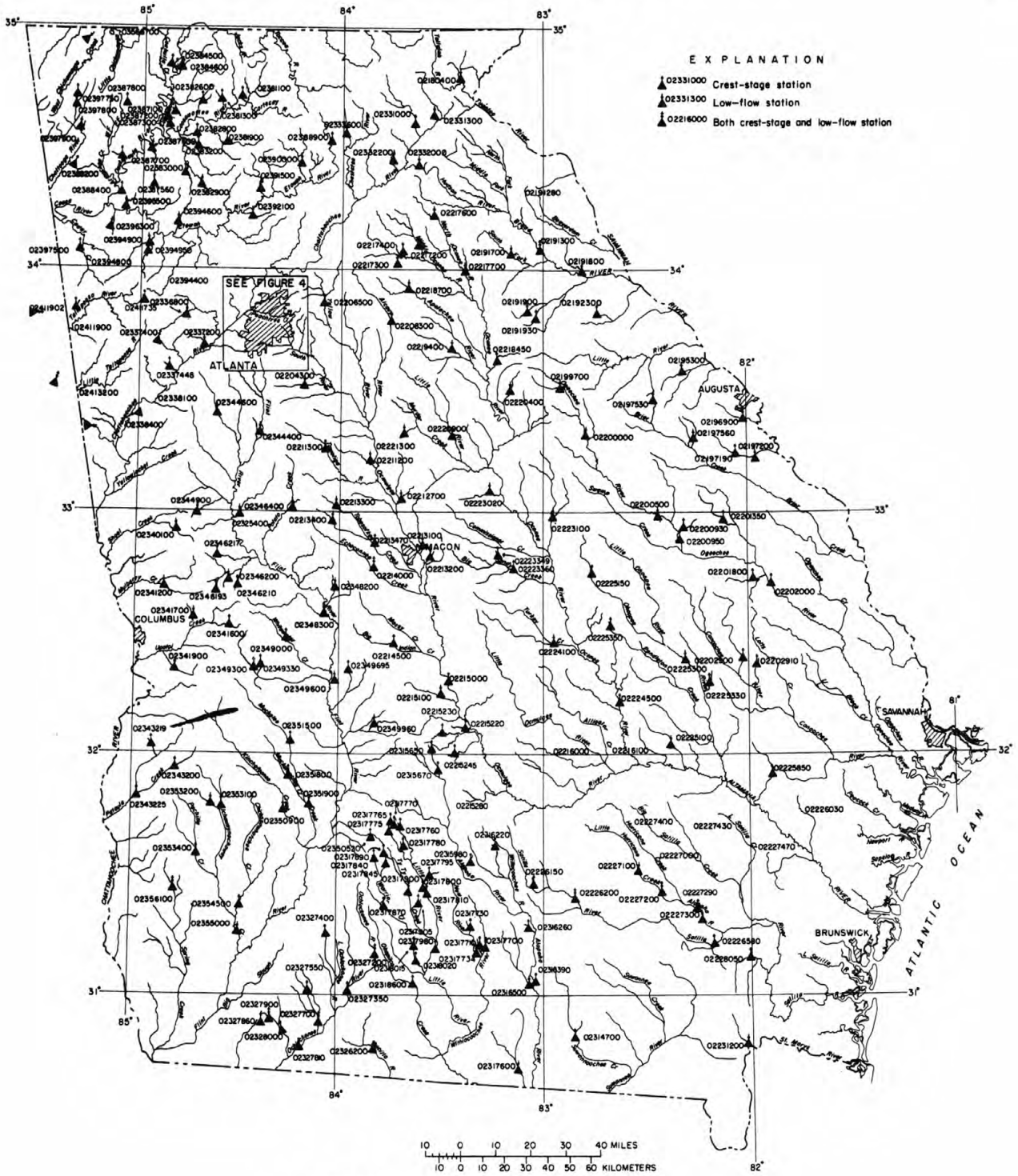




Figure 4—Location of partial-record stations in Atlanta metropolitan area.



Figure 5.—Location of surface water quality stations.

GAGING-STATION RECORDS

SAVANNAH RIVER BASIN

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA.

LOCATION.--Lat 34°48'50", long 83°18'22", Oconee County, S.C.--Rabun County, Ga., Hydrologic Unit 03060102, on left bank 150 ft (46 m) downstream from bridge on U.S. Highway 76, 2.8 mi (4.5 km) upstream from Stekoa Creek, 7 mi (11.3 km) southeast of Clayton, 9 mi (14.5 km) downstream from War Woman Creek, and 9 mi (14.5 km) upstream from confluence with Tallulah River.

DRAINAGE AREA.--207 mi² (536 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1907 to June 1908, October 1939 to current year. Monthly discharge only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 1383: 1940-41, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,165.6 ft (355.3 m) above mean sea level. May 1907 to June 1908, nonrecording gage at site 400 ft (122 m) upstream at different datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--38 years (1939-77), 656 ft³/s (18.6 m³/s), 43.04 in/yr (1,093.2 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,000 ft³/s (821 m³/s) Aug. 30, 1940, gage height, 13.8 ft (4.206 m), from rating curve extended above 4,700 ft³/s (133 m³/s) on basis of slope-area measurements at gage heights 9.9 and 13.2 ft (3.018 and 4.023 m); minimum, 88 ft³/s (2.49 m³/s) Oct. 8, 12, 13, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,400 ft³/s (96.3 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)
Oct. 7	1900	4050 115	4.31 1.314	Apr. 5	0530	4730 134	4.63 1.411
Mar. 13	0200	*13000 368	8.25 2.515	Sept. 7	2400	7460 211	6.01 1.832
Mar. 30	0630	9140 259	6.69 2.039	Sept. 16	1600	4730 134	4.68 1.426

Minimum discharge, 212 ft³/s (6.00 m³/s) Sept. 5, 6, 7, gage height, 1.09 ft (0.332 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	421	752	576	646	437	600	2130	947	730	345	290	245
2	359	643	526	595	445	546	1820	931	640	342	238	235
3	332	545	494	601	452	517	2520	902	595	329	236	223
4	315	546	469	594	452	819	2230	1090	559	318	254	219
5	306	513	447	592	457	977	3670	966	534	312	233	217
6	304	490	485	582	427	929	2470	891	534	305	293	215
7	1740	475	1600	672	421	971	2040	850	604	296	238	1490
8	2240	466	943	593	409	823	1870	822	509	285	225	2850
9	2640	442	748	627	413	766	1720	790	479	270	264	880
10	1240	417	673	796	425	721	1620	748	459	316	252	600
11	885	428	635	615	420	721	1540	735	448	305	246	450
12	731	510	780	604	440	2280	1490	719	454	280	240	400
13	642	447	743	579	656	6500	1470	699	439	271	244	900
14	576	435	659	682	549	2400	1440	683	790	262	323	1110
15	524	440	1030	887	507	1730	1390	657	587	320	344	1310
16	492	450	1040	737	479	1490	1350	638	625	274	447	2850
17	477	427	839	649	453	1340	1310	624	557	259	427	2000
18	453	416	751	595	448	1240	1270	641	563	325	448	1300
19	436	401	697	577	445	1170	1270	655	495	265	407	1200
20	509	401	766	559	440	1200	1130	671	485	250	315	1190
21	496	398	824	550	424	1190	1060	795	466	239	304	1030
22	437	379	700	542	415	1490	1050	839	425	237	298	960
23	424	370	667	534	419	1280	1540	885	492	261	282	890
24	423	370	631	544	625	1160	1670	727	420	244	284	830
25	652	366	622	528	595	1100	1290	705	408	239	382	784
26	1020	372	828	504	515	1100	1150	682	392	250	296	739
27	661	495	707	507	648	1090	1080	920	387	260	296	694
28	566	507	663	509	750	1100	1040	1180	365	242	326	604
29	521	945	630	473	---	1840	991	890	358	256	287	550
30	560	701	594	441	---	5970	966	784	348	262	265	518
31	1010	---	697	491	---	2970	---	793	---	242	248	---
TOTAL	22396	14747	22464	18409	13566	48030	47637	24859	15147	8661	9232	27483
MFAN	722	492	725	594	485	1549	1588	802	505	279	298	916
MAX	2640	945	1600	887	750	6500	3670	1180	790	345	448	2850
MIN	306	366	447	441	409	517	966	624	348	237	225	215
CFSM	3.49	2.38	3.50	2.87	2.34	7.48	7.67	3.87	2.44	1.35	1.44	4.43
IN.	4.02	2.45	4.04	3.31	2.44	8.63	8.56	4.47	2.72	1.56	1.66	4.94

CAL YR 1976 TOTAL 312823 MFAN 855 MAX 9690 MIN 255 CFSM 4.13 IN 56.22
WTR YR 1977 TOTAL 272631 MFAN 747 MAX 6500 MIN 215 CFSM 3.61 IN 48.99

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV 17...	1500	421	6.9	10.5	7.5	11.5
DEC 27...	1140	703	6.9	4.0	3.0	13.3
MAR 01...	1430	595	6.7	11.0	5.0	12.8
APR 06...	1115	2460	6.4	12.0	8.5	11.2
JUN 16...	0940	685	6.4	25.0	16.0	8.9
JUL 13...	1340	270	6.7	30.5	24.5	7.8
AUG 03...	1245	240	6.1	23.5	22.0	8.2
SEP 13...	1140	920	6.4	27.0	19.5	8.8

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)
NOV 17...	12	30	2	.6	<30	3
DEC 27...	11	10	2	.6	<30	2
MAR 01...	12	10	5	.2	<30	2
APR 06...	12	10	11	.8	36	2
JUN 16...	15	20	16	<.1	--	20
JUL 13...	16	--	7	.4	<30	--
AUG 03...	16	--	8	.4	40	--
SEP 13...	13	--	22	--	--	--

SAVANNAH RIVER BASIN

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	ALKALINITY AS CaCO ₃ (MG/L)	TOTAL NON- FILTRABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 17...	5	--	.04	<.02	<.02	<1.0
DEC 27...	5	--	<.02	<.02	<.02	2.0
MAR 01...	5	--	<.02	<.02	<.02	<1.0
APR 06...	4	--	.04	<.02	<.02	4.0
JUN 16...	4	--	.04	<.02	.03	4.0
JUL 13...	--	4	<.02	<.02	<.02	<1.0
AUG 03...	--	--	<.02	<.02	<.02	2.0
SEP 13...	--	17	<.02	<.02	.05	2.0

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TURBIDITY (NTU)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUSPENDED SIEVE DIAM. % FINER THAN .062 MM
NOV 02...	1615	568	--	7	11	--
DEC 15...	1000	870	--	10	23	60
JAN 27...	1000	502	--	6	8.1	88
MAR 09...	1020	757	4.0	26	53	69

02178400 TALLULAH RIVER NEAR CLAYTON, GA.
(Hydrologic bench-mark station)

LOCATION.--Lat 34°53'25", long 83°31'50", Rabun County, Hydrologic Unit 03060102, on right bank 100 ft (30 m) downstream from county highway bridge, 120 ft (37 m) downstream from Persimmon Creek, 8 mi (12.9 km) upstream from Burton Dam, and 10.3 mi (16.6 km) west of Clayton.

DRAINAGE AREA.--56.5 mi² (146 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 1,880 ft (573 m), from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--13 years, 206 ft³/s (5.83 m³/s), 49.51 in/yr (1,257.6 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 12.00 ft (3.658 m) May 28, 1973 (discharge not determined); minimum discharge, 45 ft³/s (1.27 m³/s) Sept. 25, 26, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges 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)
Oct. 9	0200	1290 36.5	4.92 1.500	Mar. 30	0145	*3580 101	7.68 2.341
Mar. 12	2015	3560 101	7.66 2.335	Apr. 4	2230	2700 76.5	6.73 2.051

Minimum discharge, 50 ft³/s (1.42 m³/s) Sept. 3, 4, gage height, 1.87 ft (0.570 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	144	142	189	125	185	580	241	214	118	64	71
2	91	145	129	175	126	166	456	236	164	109	62	57
3	83	135	120	176	115	155	919	298	149	96	63	54
4	80	127	114	170	119	322	944	350	141	93	61	54
5	77	119	109	171	116	267	1500	284	140	91	61	55
6	89	112	158	175	111	360	868	257	180	88	60	54
7	562	109	292	186	108	330	674	241	163	85	56	259
8	409	105	198	166	109	270	562	227	138	84	55	205
9	775	103	167	185	107	231	495	212	131	87	57	95
10	323	101	148	195	108	211	451	204	125	86	56	77
11	225	102	143	179	110	207	417	190	121	81	72	69
12	181	116	208	162	136	1160	387	179	128	87	56	63
13	157	100	183	151	204	1550	367	175	122	88	54	119
14	138	103	170	208	154	669	343	178	139	80	69	190
15	122	110	321	222	147	468	323	173	124	78	82	204
16	116	102	296	201	136	376	308	166	128	75	72	514
17	113	98	237	189	127	327	294	167	124	90	78	326
18	106	96	205	184	126	301	304	186	119	79	87	223
19	104	101	185	173	124	272	283	166	125	73	69	214
20	119	108	278	161	122	285	262	190	118	71	61	217
21	106	101	261	156	116	314	251	166	117	69	61	149
22	101	92	223	144	115	356	243	194	121	72	59	126
23	98	87	203	139	115	288	477	180	141	71	56	113
24	104	87	185	143	232	265	535	167	113	67	60	104
25	189	87	197	136	174	248	376	177	108	78	58	97
26	178	90	233	131	162	235	323	198	109	81	57	98
27	141	110	195	135	244	224	294	192	106	75	87	95
28	127	175	184	132	216	254	274	199	100	70	74	88
29	120	253	174	127	---	550	260	178	107	75	61	83
30	181	170	166	140	---	1840	250	177	104	73	57	88
31	236	---	229	120	---	848	---	246	---	66	55	---
TOTAL	5563	3508	6053	5121	3904	13534	14020	6394	3919	2536	1980	4161
IFAN	179	117	195	165	139	437	467	206	131	81.8	63.9	139
MAX	775	253	321	222	244	1840	1500	350	214	118	87	514
ITN	77	87	109	120	107	155	243	166	100	66	54	54
FSM	3.17	2.07	3.45	2.92	2.46	7.74	8.27	3.65	2.32	1.45	1.13	2.46
N.	3.66	2.31	3.99	3.37	2.57	8.91	9.23	4.21	2.58	1.67	1.30	2.74

AL YR 1976 TOTAL 84395 MEAN 231 MAX 3400 MIN 61 CFSM 4.09 IN 55.57
TR YR 1977 TOTAL 70693 MEAN 194 MAX 1840 MIN 54 CFSM 3.43 IN 46.54

SAVANNAH RIVER BASIN

02178400 TALLULAH RIVER NEAR CLAYTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1967 to September 1968, December 1969 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: September 1964 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 28.0°C July 28, 1966; minimum, 0.0°C on several days during most years.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 26.5°C July 8, 20, 21; minimum, 0.0°C Dec. 22, Jan. 2, 9-13, 16-24, 26.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

				INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)		
	DATE	TIME				(UNITS)				
	SEP 01...	1300		81	25	6.0	22.5	7.2		
	COLOR (PLAT- INUM- CORALT UNITS)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)
SFP 01...	5	5	0	1.3	.4	1.5	.6	9	0	7
	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (NO3) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
SEP 01...	.9	.7	.0	9.6	23	20	5.03	.06	.27	.00
	DIS- SOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SUS- PENDED KJEL. NITRO- GEN (N) (MG/L)
SFP 01...	.00	.06	.06	.02	.02	.03	.15	.09	.17	.06
	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)
SEP 01...	.11	.23	1.0	.03	.03	.00	.00	.00	30	0
	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
SEP 01...	0	0	0	10	10	10	.0	0	0	5.9

02178400 TALLULAH RIVER NEAR CLAYTON, GA.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1					---	---	2.0	.5	---	---	5.5	2.0
2					---	---	2.5	.0	---	---	6.0	2.0
3					---	---	3.5	1.5	---	---	5.5	4.0
4					---	---	5.0	3.5	---	---	9.0	5.5
5					---	---	5.5	4.5	---	---	8.0	6.0
6					---	---	5.0	3.5	---	---	7.0	7.0
7					---	---	4.5	3.0	---	---	8.5	5.5
8					---	---	3.5	1.5	---	---	8.0	3.5
9					---	---	3.5	.0	---	---	8.5	4.0
10					---	---	3.0	.0	---	---	8.0	5.5
11					---	---	.5	.0	---	---	9.0	8.0
12					---	---	.5	.0	---	---	10.5	9.0
13					---	---	2.0	.0	---	---	10.0	8.0
14					---	---	3.5	1.5	---	---	11.0	8.0
15					8.5	6.0	5.0	3.5	---	---	11.5	7.5
16					8.0	6.0	2.5	.0	---	---	13.0	9.5
17					6.5	4.5	.0	.0	---	---	9.5	7.5
18					7.5	5.5	.0	.0	---	---	12.0	8.5
19					7.5	5.5	.0	.0	---	---	10.0	8.5
20					8.0	6.0	.0	.0	---	---	12.0	8.5
21					5.5	1.5	.5	.0	---	---	9.5	8.0
22					2.5	.0	1.0	.0	---	---	9.5	6.5
23					3.5	2.0	1.5	.0	---	---	9.0	4.5
24					3.5	2.0	1.5	.0	---	---	10.0	5.5
25					3.5	1.5	3.0	1.0	---	---	11.0	6.5
26					5.0	3.5	3.0	.0	---	---	11.0	6.5
27					4.5	2.5	---	---	8.5	5.5	11.0	8.0
28					6.0	3.5	---	---	6.0	3.5	11.0	9.5
29					5.0	2.0	---	---	---	---	11.0	10.5
30					4.5	1.0	---	---	---	---	11.0	10.5
31					5.0	2.5	---	---	---	---	12.5	10.0
MONTH					8.5	.0	5.5	.0	8.5	3.5	13.0	2.0
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.0	8.5	13.0	12.0	20.0	16.0	23.5	20.5	25.5	20.5	24.0	20.5
2	11.0	10.0	13.5	12.5	18.5	15.0	24.0	20.0	23.5	20.0	24.0	19.5
3	12.0	11.0	14.5	12.5	19.5	14.5	23.0	20.0	22.5	20.5	24.5	19.0
4	12.5	11.0	14.5	13.0	20.0	15.0	24.5	19.5	24.0	20.0	22.5	19.5
5	11.5	7.5	16.5	12.5	20.5	15.5	24.0	20.5	25.5	21.0	23.5	20.0
6	10.0	6.5	17.5	13.0	21.0	16.5	25.5	20.5	25.5	20.5	23.5	20.0
7	11.5	6.5	16.0	14.0	19.0	15.5	26.0	21.0	26.0	21.0	21.0	19.5
8	13.0	8.5	18.0	13.5	18.5	14.5	26.5	21.0	24.5	21.0	20.5	19.0
9	12.0	7.5	17.0	13.0	19.5	14.5	26.0	22.0	24.0	21.0	23.0	19.0
10	12.5	8.0	14.5	10.0	19.0	14.5	25.5	21.0	25.5	20.0	22.0	19.0
11	13.0	9.0	14.5	9.5	18.5	14.5	26.0	21.0	26.0	20.5	22.5	19.0
12	13.5	10.0	15.5	10.5	21.5	17.0	25.0	21.0	25.5	21.0	21.0	17.5
13	14.0	10.0	16.0	10.5	22.0	18.0	25.0	20.5	26.0	20.5	18.0	17.5
14	13.0	10.5	15.5	11.5	20.0	18.5	25.5	21.0	24.5	21.5	20.5	17.5
15	13.0	11.0	16.5	12.5	21.0	18.5	26.0	21.5	23.0	21.0	20.0	18.5
16	13.5	10.5	17.5	13.0	21.5	18.5	26.0	21.5	22.5	20.0	19.5	18.0
17	14.0	10.5	17.5	13.5	20.0	18.5	23.5	21.0	23.0	20.5	19.5	18.0
18	14.0	11.5	16.5	14.0	21.5	18.5	25.5	20.0	21.5	20.0	19.5	17.5
19	15.0	12.0	17.0	14.0	23.5	19.0	26.0	20.5	23.5	19.5	19.0	17.5
20	15.0	11.5	16.5	14.0	23.0	19.5	26.5	21.0	24.0	19.0	20.5	17.5
21	14.0	13.0	15.5	13.5	23.5	19.0	26.5	21.0	22.0	20.0	19.5	16.0
22	14.0	12.5	17.0	14.5	21.5	19.0	24.5	22.0	24.5	19.0	19.5	16.0
23	14.0	13.0	18.5	14.5	24.0	19.0	23.5	21.0	22.0	19.5	20.5	17.5
24	13.5	11.5	16.0	15.0	23.5	19.5	25.0	20.0	21.5	19.5	20.5	18.0
25	14.0	10.5	17.5	15.0	24.5	20.0	22.0	20.0	23.5	19.5	20.5	17.5
26	11.5	9.0	16.5	15.5	23.5	20.5	23.5	20.0	21.5	20.5	19.5	17.5
27	12.5	7.5	17.5	15.0	24.5	20.5	24.0	21.0	22.5	20.0	18.5	16.5
28	14.0	9.5	17.5	15.5	24.0	20.0	21.0	19.5	23.5	20.0	19.5	16.0
29	14.5	12.0	19.0	15.0	24.0	20.0	19.5	19.0	24.5	20.0	16.5	14.5
30	13.0	12.0	18.5	15.5	23.5	20.5	24.5	18.5	24.5	20.0	16.5	15.5
31	---	---	19.0	16.0	---	---	25.0	20.0	25.0	20.0	---	---
MONTH	15.0	6.5	19.0	9.5	24.5	14.5	26.5	18.5	26.0	19.0	24.5	14.5

SAVANNAH RIVER BASIN

02187500 SAVANNAH RIVER NEAR IVA, S.C.

LOCATION.--Lat 34°15'20", long 82°44'42", Anderson County, S.C.--Elbert County, Ga., Hydrologic Unit 03060103, on left bank at downstream side of bridge on State Highway 184, 0.5 mi (0.8 km) upstream from Little Generostee Creek, 5.8 mi (9.3 km) south-west of Iva, and at mile 296.5 (477.1 km).

DRAINAGE AREA.--2,231 mi² (5,778 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1949 to current year. Monthly discharge only for some periods, published in WSP 1303.

GAGE.--Water-stage recorder. Datum of gage is 432.26 ft (131.75 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records good. Flow regulated by Lake Burton, Mathis Reservoir and Hartwell Lake. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, and 02187250.)

AVERAGE DISCHARGE.--28 years, 4,448 ft³/s (126 m³/s), 27.07 in/yr (687.6 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,400 ft³/s (1,540 m³/s) Mar. 12, 1952, gage height, 12.74 ft (3.883 m); minimum, 75 ft³/s (2.12 m³/s) Oct. 24, 1961; minimum daily, 78 ft³/s (2.21 m³/s) Oct. 23, 24, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28,800 ft³/s (816 m³/s) Mar. 30, gage height, 8.12 ft (2.475 m); minimum, 145 ft³/s (4.11 m³/s) Aug. 14; minimum daily, 159 ft³/s (4.50 m³/s) Sept. 25.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2780	9050	6430	1860	4340	4800	22600	335	5330	2590	5670	7660
2	402	10400	5550	894	4300	3910	16300	5080	5410	454	5410	3570
3	1020	7200	4340	8480	4330	3870	15300	4160	5650	649	3790	639
4	4360	7640	1900	8910	4020	3900	16800	6700	585	1030	7610	679
5	2710	8040	315	8890	679	998	16700	6130	217	4960	7780	1130
6	2460	1040	4400	8910	270	473	16000	10000	8330	7120	592	3620
7	2450	197	7670	9080	3450	3560	15900	916	4510	7830	649	3850
8	3450	7210	9490	1140	4090	3300	15800	321	3890	6960	7240	3970
9	2190	7120	9900	530	4030	3760	9430	6570	2290	438	7120	4760
10	677	8110	5710	8980	3310	3860	3700	5120	2320	601	8590	415
11	2450	8200	1200	9330	2900	6160	13200	7180	488	5170	8630	679
12	2710	9640	582	7160	733	862	14100	7440	265	5810	8080	2810
13	3280	987	8430	7060	357	475	14200	7340	4290	6880	574	5740
14	2480	226	7780	7500	3580	3310	14900	1140	5110	5340	611	7660
15	3620	7440	9750	1280	3480	3620	14800	271	4660	6370	7450	6600
16	604	6430	7070	610	5010	3240	10000	5270	5280	565	7830	3650
17	220	5090	6440	12500	3790	390	892	6210	4890	592	4630	1760
18	8190	9420	983	8910	4190	353	13900	4510	595	5920	720	2790
19	5550	8030	425	15100	852	349	14600	4890	282	6530	659	7360
20	4630	852	8880	14700	301	390	14400	3260	5970	6530	320	7870
21	6590	232	11900	15500	3210	4680	16900	492	4860	6530	669	8170
22	3910	9870	11600	1400	2600	6440	16900	272	7040	5780	7160	9800
23	251	5860	9690	374	3710	5980	4330	5190	5470	556	5560	7120
24	188	5870	9480	6020	3920	5330	980	4530	6470	611	7280	565
25	3450	2750	3010	6420	3160	5230	7570	4350	1770	6040	7360	159
26	3630	3350	569	6450	764	917	8450	4270	433	6220	7360	6410
27	5030	699	8760	6440	553	405	8230	4290	7040	5630	859	6680
28	7300	414	8200	6430	4930	6500	8020	572	5840	3710	917	3270
29	5580	11500	9550	851	---	8250	9850	282	5590	2110	7410	3190
30	1340	13200	9650	347	---	17400	1270	4490	6150	320	7610	3110
31	361	---	9440	4240	---	18100	---	5860	---	620	7610	---
TOTAL	93868	176037	199094	196296	80859	130762	356022	129441	121025	120466	153750	125686
MEAN	3028	5868	6422	6332	2888	4218	11870	4176	4034	3886	4960	4190
MAX	8190	13200	11900	15500	5010	18100	22600	10000	8330	7830	8630	9800
MIN	188	197	315	347	270	349	892	271	217	320	320	159
MEAN†	5329	3908	6277	6221	3231	10097	9172	4343	3470	2140	1992	5288
CFSM†	2.39	1.75	2.81	2.79	1.45	4.53	4.11	1.95	1.56	0.96	0.89	2.37
IN†	2.76	1.95	3.24	3.22	1.51	5.22	4.59	2.25	1.74	1.11	1.03	2.64

CAL YR 1976 TOTAL 2209346 MEAN 6036 MAX 18500 MIN 126 MEAN† 6141 CFSM† 2.75 IN† 37.47
WTR YR 1977 TOTAL 1883306 MEAN 5160 MAX 22600 MIN 159 MEAN† 5134 CFSM† 2.30 IN† 31.24

† Adjusted for change in contents in Lake Burton, Mathis Reservoir, and Hartwell Lake.

SAVANNAH RIVER BASIN

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02187500 SAVANNAH RIVER NEAR IVA, S.C.--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1962 to September 1967, October 1968 to September 1972.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum daily, 28.0°C Aug. 30, 31, 1970; minimum daily, 3.0°C Jan. 31, 1966.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PM (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
DEC 28...	1425	7000	6.9	12.5	8.5	11.8
APR 28...	1510	11400	6.9	26.0	10.0	10.6
AUG 03...	1040	370	6.6	20.0	15.0	7.6
SEP 14...	0915	474	6.3	26.0	17.0	8.0

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)
DEC 28...	28	5	2	.4	36	6
APR 28...	30	<5	7	.4	<30	7
AUG 03...	30	--	15	.5	430	--
SEP 14...	30	--	7	<.1	80	--

DATE	ALKA- LITY AS CaCO ₃ (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC 28...	9	.07	<.02	<.02	120	<50	<1.0
APR 28...	10	.15	<.02	<.02	70	<50	<1.0
AUG 03...	--	.19	<.02	.02	--	--	2.0
SEP 14...	--	.17	<.02	<.02	100	130	3.0

SAVANNAH RIVER BASIN

02188500 BEAVERDAM CREEK AT DEWY ROSE, GA.
(Formerly published as South Beaverdam Creek at Dewy Rose)

LOCATION.--Lat 34°10'52", long 82°56'38", Elbert County, Hydrologic Unit 03060103, on left bank 50 ft (15 m) upstream from highway bridge, 1 mi (1.6 km) northeast of Dewy Rose, and 3 mi (4.8 km) upstream from Little Beaverdam Creek (formerly North Beaverdam Creek).

DRAINAGE AREA.--35.8 mi² (92.7 km²).

PERIOD OF RECORD.--October 1942 to September 1977 (discontinued).

REVISED RECORDS.--WSP 1383: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 581.07 ft (177.11 m) above mean sea level. Prior to Nov. 20, 1952, nonrecording gage at same site and datum.

REMARKS.--Records good except those of no gage-height record, Sept. 11-30, which are fair.

AVERAGE DISCHARGE.--35 years, 51.7 ft³/s (1.46 m³/s), 19.61 in/yr (498.1 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,570 ft³/s (186 m³/s) June 4, 1967, gage height, 16.9 ft (5.15 m), from floodmark, from rating curve extended above 2,000 ft³/s (56.6 m³/s) on basis of slope-area and contracted-opening measurements of peak flow; minimum, 0.80 ft³/s (0.023 m³/s) Sept. 22, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of Aug. 25, 1852 and Aug. 25, 1908 reached a stage of about 23.6 ft (7.19 m), from information by local residents.

Flood of Aug. 15, 1928 reached a stage of about 17.8 ft (5.42 m), from floodmark.

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)
Jan. 10	1115	*660 18.7	5.69 1.734

Minimum discharge, 8.2 ft³/s (0.232 m³/s) July 23, Aug. 15, 16.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	31	54	41	46	53	107	36	24	17	14	12
2	25	27	45	39	44	48	87	36	22	19	13	12
3	21	26	41	41	44	46	116	35	21	19	18	11
4	19	25	37	46	45	58	114	34	20	17	22	12
5	18	24	35	44	44	65	325	33	20	16	18	14
6	18	24	37	43	42	62	149	32	20	16	16	14
7	29	24	337	80	42	82	102	32	21	15	15	25
8	95	23	126	63	41	70	86	31	21	14	14	30
9	268	23	80	88	41	60	73	30	20	14	14	22
10	97	23	62	44A	41	55	66	28	20	13	13	17
11	61	24	54	140	41	53	61	27	20	13	12	16
12	46	26	70	103	41	53	57	27	22	12	10	15
13	37	25	89	86	54	99	54	26	22	11	9.7	15
14	32	26	66	95	48	75	51	25	22	12	9.2	22
15	2A	55	150	144	45	63	48	25	22	11	9.1	20
16	26	46	150	91	42	57	45	25	22	11	11	26
17	26	36	86	74	41	52	43	24	39	11	22	40
18	27	33	69	66	40	50	42	24	26	11	68	31
19	25	30	59	61	41	48	40	28	24	10	34	25
20	27	29	66	57	40	53	40	25	23	10	23	22
21	28	29	77	54	38	59	39	24	21	9.4	19	20
22	26	27	58	52	38	170	38	25	20	9.2	17	19
23	27	26	53	50	39	97	42	25	20	9.3	15	19
24	24	26	49	52	60	76	46	26	20	9.6	14	18
25	26	26	47	53	54	66	41	29	19	9.4	14	18
26	35	27	77	53	47	60	37	29	18	10	14	18
27	29	34	60	56	62	55	37	30	18	14	21	19
28	26	52	53	56	65	53	36	28	17	16	16	19
29	24	112	49	53	---	89	35	28	17	16	14	18
30	25	73	45	48	---	352	35	25	16	16	13	18
31	36	---	44	47	---	192	---	24	---	15	13	---
TOTAL	1264	1012	2325	2424	1266	2471	2092	876	637	405.9	535.0	587
MFAN	40.8	33.7	75.0	78.2	45.2	79.7	69.7	28.3	21.2	13.1	17.3	19.6
MAX	268	112	337	448	65	352	325	36	39	19	68	40
MIN	18	23	35	39	38	46	35	24	16	9.2	9.1	11
CFSM	1.14	.94	2.10	2.1A	1.26	2.23	1.95	.79	.59	.37	.48	.55
IN.	1.31	1.05	2.42	2.52	1.32	2.57	2.17	.91	.66	.42	.56	.61

CAL YR 1976	TOTAL	19990.0	MEAN 54.6	MAX 732	MIN 12	CFSM 1.53	IN 20.77
WTR YR 1977	TOTAL	15894.9	MEAN 43.5	MAX 448	MIN 9.1	CFSM 1.22	IN 16.52

SAVANNAH RIVER BASIN

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02189000 SAVANNAH RIVER NEAR CALHOUN FALLS, S.C.

LOCATION.--Lat 34°04'15", long 82°38'30", Abbeville County, S.C.-Elbert County, Ga., Hydrologic Unit 03060103, on left bank 150 ft (46 m) upstream from bridge on State Highway 72, 1.0 mi (1.6 km) downstream from Seaboard Coast Line Railroad bridge, 1.5 mi (2.4 km) downstream from Rocky River, 3.0 mi (4.8 km) southwest of Calhoun Falls, and at mile 279.7 (450.0 km).

DRAINAGE AREA.--2,876 mi² (7,449 km²).

PERIOD OF RECORD.--August 1896 to August 1898, March 1899 to December 1900, January to December 1903, March 1930 to July 1932, April 1938 to current year. Published as "at Calhoun Falls" 1897-99. Records for January 1901 to December 1902, published in WSP 65, 75, and 83 have been found unreliable, and should not be used. Gage-height records collected at original site 1.0 mi (1.6 km) upstream during 1899-1928 and at present site since 1928 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1303: 1930-32, 1938-39 (monthly runoff). WSP 1433: 1899-1900, 1932, 1940(m), 1946. See also period of record.

GAGE.--Water-stage recorder. Datum of gage is 363.53 ft (110.80 m) above mean sea level. Prior to July 1, 1928, nonrecording gage at railroad bridge 1.0 mi (1.6 km) upstream at datum about 369.0 ft (112.47 m) above mean sea level.

REMARKS.--Records good. Flow regulated by Lake Burton, Mathis Reservoir, and Hartwell Lake. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, and 02187250.) Records of chemical analyses for the water years 1970-74 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--42 years (1896-97, 1899-1900, 1930-31, 1938-77), 5,268 ft³/s (149.2 m³/s), 24.88 in/yr (632 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 96,500 ft³/s (2,730 m³/s) Aug. 13, 1940, gage height, 11.52 ft (3.51 m), from rating curve extended above 50,000 ft³/s (1,420 m³/s), by velocity-area studies; minimum daily, 300 ft³/s (8.50 m³/s) Nov. 5, 1961.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Aug. 25, 1908 reached a stage of 28.2 ft (8.60 m) at original site and datum, from records of National Weather Service, discharge, 144,000 ft³/s (4,080 m³/s), from rating curve extended above 14,000 ft³/s (396 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 35,200 ft³/s (997 m³/s) Mar. 30, gage height, 6.35 ft (1.935 m); minimum daily, 388 ft³/s (11.0 m³/s) Aug. 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3140	5900	9500	5850	5610	6690	27900	1080	5970	3450	4210	7770
2	2180	11400	7040	2400	5040	5280	19400	2540	5770	2210	6190	4180
3	1220	7090	5630	6040	5070	4660	18100	7160	6630	653	3740	2160
4	3270	7970	3040	10100	4770	4810	19900	6650	3290	1020	7660	449
5	3830	9270	1460	10100	2670	3370	22000	7950	754	3520	8190	730
6	2770	4720	2930	10100	1110	1670	20000	10400	5820	7570	3490	2500
7	2800	805	9690	10700	2560	3840	18200	4110	6650	9140	570	3990
8	4130	3970	11000	5870	4770	5210	17900	973	4520	8180	2290	4220
9	4090	10000	12400	1950	4600	3980	13400	3930	2650	2530	7890	5440
10	2090	7030	8250	12700	4430	4800	5750	7190	2590	683	8000	1980
11	2740	9070	4050	11900	3450	5760	11200	6060	2320	3690	9770	590
12	3300	8540	1850	7830	1920	4420	15700	8030	667	6330	8470	1220
13	3460	5590	7330	9010	1030	1970	15600	9220	2800	7630	3120	5820
14	3370	863	9560	9310	3360	3550	16500	3750	5860	6080	527	7550
15	2930	7910	12000	5530	3330	4550	16100	917	5310	6650	5300	7410
16	2860	8150	11000	2020	5270	4210	13100	3350	6090	3710	8230	4510
17	1020	6310	8400	9950	4680	1550	4440	7260	5930	599	5670	2770
18	5290	8270	3730	10600	4750	1140	10800	5350	2900	4450	2690	2570
19	8970	10000	1600	15700	2830	1080	16100	5640	799	6780	705	6490
20	3710	3750	7040	17500	964	1280	15500	4270	4630	7450	834	8710
21	7430	950	13000	16300	2360	2840	18700	2390	5650	7180	388	8800
22	5920	6820	13000	7860	3680	10000	18800	825	6590	6300	5160	9530
23	1340	8010	10900	1430	3550	7620	9040	3010	7520	3300	6250	8390
24	768	6310	10800	5030	4590	6990	2410	6040	6750	476	7040	3300
25	2150	4670	7110	7690	4650	8130	5340	5120	3510	4130	7690	720
26	4200	2780	2350	7700	2050	2430	8510	4970	1920	6480	7750	4070
27	6110	2740	6380	7710	1650	1230	9320	4930	5120	5930	3330	7680
28	5140	1220	9440	7700	4010	4520	10000	3010	6960	4900	682	4500
29	8400	9690	10500	4020	---	10800	10300	946	6560	2890	5280	3510
30	1890	14900	10800	1370	---	21100	5170	3410	7370	1460	7600	3430
31	1420	---	10800	3400	---	23500	---	6520	---	439	7750	---
TOTAL	111938	194698	242580	245370	98754	172980	415180	147001	139900	135810	156466	134989
MEAN	3611	6490	7825	7915	3527	5580	13840	4742	4663	4381	5047	4500
MAX	8970	14900	13000	17500	5610	23500	27900	10400	7520	9140	9770	9530
MIN	768	805	1460	1370	964	1080	2410	825	667	439	388	449

CAL YR 1976 TOTAL 2548018 MEAN 6962 MAX 20500 MIN 768 MEAN† 7067 CFSM† 2.47 IN† 33.45
WTR YR 1977 TOTAL 2195666 MEAN 6016 MAX 27900 MIN 388 MEAN† 5990 CFSM† 2.08 IN† 28.27

† Adjusted for change in contents in Lake Burton, Mathis Reservoir, and Hartwell Lake.

02191200 HUDSON RIVER AT HOMER, GA.

LOCATION.--Lat 34°20'15", long 83°29'17", Banks County, Hydrologic Unit 03060104, on downstream side of center pier of bridge on State Highway 15 at Homer, 3.6 mi (5.8 km) upstream from Webb Creek, and 10.8 mi (17.4 km) upstream from Grove Creek.

DRAINAGE AREA.--61.1 mi² (158 km²).

PERIOD OF RECORD.--Annual maximum 1951-58, and occasional low-flow measurements 1942, 1950-52, 1954, 1955. June 1959 to current year.

REVISED RECORDS.--WSP 1904: 1954-55(M). WSP 2104: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 694.61 ft (211.72 m) above mean sea level. July 10, 1950 to June 19, 1959, crest-stage gage at site 60 ft (18 m) downstream at same datum.

REMARKS.--Records good. Records of chemical analyses for the water year 1970 are published in reports of the Geological Survey. AVERAGE DISCHARGE.--18 years (1959-77), 111 ft³/s (3.14 m³/s), 24.67 in/yr (626.6 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,050 ft³/s (200 m³/s) May 29, 1976, gage height, 14.73 ft (4.490 m); minimum daily, 24 ft³/s (.68 m³/s) July 19, 20, 1970.

EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of 8.62 ft³/s (0.244 m³/s) was measured on Sept. 23, 1955.

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)
Jan. 9	2400	806 22.8	7.16 2.182	Apr. 5	1445	818 23.2	7.20 2.195
Mar. 30	0930	*4280 121	12.48 3.804				

Minimum discharge, 27 ft³/s (0.76 m³/s) July 25, Aug. 14, 15, gage height, 0.84 ft (0.256 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	68	89	94	76	92	298	99	65	51	48	31
2	50	63	80	90	74	84	240	100	62	61	39	30
3	48	60	74	96	75	79	344	93	61	49	41	29
4	46	59	70	103	75	88	362	97	59	52	42	29
5	45	57	67	100	79	89	629	90	58	45	38	31
6	47	56	72	97	75	92	284	86	58	44	36	30
7	89	56	207	171	72	119	217	82	73	42	34	149
8	91	55	110	123	70	102	192	81	62	41	34	353
9	153	54	87	287	70	92	172	78	60	39	43	99
10	75	55	80	869	71	86	159	76	58	40	35	66
11	62	55	78	230	70	89	149	75	57	39	31	55
12	57	62	183	163	73	99	140	74	60	38	29	49
13	55	57	154	139	120	236	134	73	57	37	28	47
14	53	58	106	207	90	139	127	72	91	35	28	79
15	51	72	323	225	81	113	122	71	65	35	28	72
16	50	66	222	152	76	102	117	70	60	34	29	262
17	52	60	151	124	73	93	112	70	60	33	39	513
18	51	59	128	120	73	89	107	68	60	33	50	162
19	49	58	116	116	72	85	113	67	58	32	66	104
20	67	59	142	106	70	89	102	67	55	31	40	84
21	63	59	153	94	69	115	99	67	53	29	36	71
22	53	56	119	90	69	315	100	76	52	28	34	62
23	52	55	110	87	69	154	133	68	60	29	34	57
24	52	56	104	90	125	124	221	68	54	29	87	54
25	109	56	105	89	99	111	123	86	52	30	45	52
26	155	57	181	85	84	103	107	75	53	36	38	52
27	77	77	127	90	109	98	101	87	52	39	39	53
28	66	112	114	94	113	95	98	73	48	37	37	55
29	61	251	105	87	---	320	95	70	47	42	35	49
30	64	114	98	80	---	3060	93	66	49	47	33	49
31	89	---	102	81	---	763	---	66	---	39	32	---
TOTAL	2088	2082	3857	4579	2272	7315	5290	2391	1759	1196	1208	2828
MFAN	67.4	69.4	124	148	81.1	236	176	77.1	58.6	38.6	39.0	94.3
MAX	155	251	323	869	125	3060	629	100	91	61	87	513
MTN	45	54	67	80	69	79	93	66	47	28	28	29
CFSM	1.10	1.14	2.03	2.42	1.33	3.86	2.88	1.26	.96	.63	.64	1.54
IN.	1.27	1.27	2.35	2.79	1.38	4.45	3.22	1.46	1.07	.73	.74	1.72
CAL YR 1976	TOTAL	50671	MEAN 138	MAX 4460	MIN 40	CFSM 2.26	IN 30.85					
YR 1977	TOTAL	36865	MEAN 101	MAX 3060	MIN 28	CFSM 1.65	IN 22.44					

02191970 MACKS CREEK TRIBUTARY NO. 2 NEAR LEXINGTON, GA.

LOCATION.--Lat 33°56'28", long 82°52'18", Oglethorpe County, Hydrologic Unit, 03060104, on right bank 10 ft (3.0 m) upstream from culvert wingwall on State Highway 77, 11.3 mi (18.2 km) northeast of junction with U.S. Highway 78 in Lexington.

DRAINAGE AREA.--1.77 mi² (4.58 km²).

PERIOD OF RECORD.--Annual maximum, water years 1960-74, December 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 510 ft (155 m), from topographic map.

REMARKS.--Records good except those for periods of no gage-height record, Oct. 1-20, Oct. 26 to Nov. 11, and Dec. 22 to Feb. 1, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 494 ft³/s (14.0 m³/s) Mar. 3, 1971, gage height, 7.05 ft (2.149 m); minimum daily, 0.46 ft³/s (0.013 m³/s) July 24, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges 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)
Mar. 21	2215	*65 1.84	3.01 0.917

Minimum discharge, 0.36 ft³/s (0.010 m³/s) July 24, gage height, 0.72 ft (0.219 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.4	2.2	2.1	1.8	2.6	3.9	1.2	1.0	.67	.78	.92
2	1.3	1.2	2.0	2.0	1.8	2.2	3.7	1.2	.96	.65	2.8	.86
3	1.3	1.1	1.8	3.0	1.8	2.1	4.2	1.2	.91	.62	8.8	.88
4	1.2	1.1	1.7	2.8	1.7	2.6	3.4	1.1	.86	.63	2.7	1.5
5	1.2	1.0	1.6	2.7	1.7	2.4	8.7	1.1	.82	.60	1.5	.86
6	1.1	.98	2.6	4.5	1.6	3.8	4.9	1.1	.85	.57	1.1	.82
7	3.0	.94	7.8	3.8	1.6	5.4	4.2	1.0	.84	.72	.93	.84
8	6.0	.92	3.8	3.4	1.5	3.7	3.6	1.0	.82	.93	.88	.99
9	4.2	.90	2.9	8.0	1.6	3.1	3.0	.99	.80	1.0	.84	.83
10	3.1	.88	2.5	5.2	1.5	2.8	2.7	.96	.79	.64	.83	.73
11	2.5	.88	2.6	4.1	1.5	2.5	2.3	.96	.76	.63	.88	.68
12	1.9	.91	7.6	3.5	1.5	3.8	2.1	.94	.81	.60	.83	.69
13	1.6	.84	7.7	3.1	1.5	7.8	2.0	.92	.76	.58	.75	.71
14	1.4	1.3	4.4	6.0	1.4	4.4	1.8	.89	.84	.59	.68	.75
15	1.2	9.2	6.6	3.7	1.4	3.6	1.7	.87	.78	.57	.75	.75
16	1.1	2.9	5.0	2.6	1.4	3.2	1.5	.87	1.1	.50	.86	.94
17	1.0	2.2	3.7	2.2	1.4	2.9	1.8	.85	1.0	.49	.97	.86
18	2.0	1.9	3.2	1.9	1.4	2.7	1.5	.84	.87	.52	3.1	.80
19	1.3	1.6	3.1	1.7	1.4	2.5	1.4	.78	.81	.50	1.4	.79
20	2.5	1.5	3.3	1.5	1.4	5.1	1.4	.94	.78	.49	1.2	.75
21	.91	1.4	2.9	1.4	1.4	15	1.3	.96	.74	.47	1.2	.71
22	.87	1.3	2.6	1.3	1.3	15	1.3	.84	.74	.48	1.1	.69
23	.82	1.2	2.4	1.2	1.3	6.7	1.6	.86	.75	.49	1.0	.69
24	.81	1.2	2.3	2.0	3.2	4.8	1.9	.90	.75	.46	1.0	.65
25	.90	1.1	6.0	2.4	1.9	3.9	1.4	.95	.72	.48	1.1	.64
26	2.0	1.3	4.1	1.9	1.9	3.2	1.3	5.2	.71	.52	1.1	.75
27	1.5	1.4	3.4	1.8	4.2	2.9	1.3	3.1	.69	.51	1.2	.74
28	1.3	3.3	2.9	3.0	3.2	2.8	1.2	1.9	.64	.84	1.0	.71
29	1.2	4.1	2.5	2.2	---	7.3	1.2	1.4	.63	1.3	.97	.68
30	2.5	2.6	2.3	1.9	---	5.3	1.2	1.2	.61	.65	.96	.72
31	1.7	---	2.2	1.8	---	4.5	---	1.1	---	.96	.95	---
TOTAL	54.81	52.55	109.7	88.7	49.3	140.6	73.5	38.12	24.14	19.66	44.16	23.93
MEAN	1.77	1.75	3.54	2.86	1.76	4.54	2.45	1.23	.80	.63	1.42	.80
MAX	6.0	9.2	7.8	8.0	4.2	15	8.7	5.2	1.1	1.3	8.8	1.5
MIN	.81	.84	1.6	1.2	1.3	2.1	1.2	.78	.61	.46	.68	.64
CFSM	1.00	.99	2.00	1.62	.99	2.57	1.38	.70	.45	.36	.80	.45
IN.	1.15	1.10	2.30	1.86	1.04	2.95	1.54	.80	.51	.41	.93	.50

CAL YR 1976 TOTAL 862.80 MEAN 2.36 MAX 101 MIN .68 CFSM 1.33 IN 18.12
 YR 1977 TOTAL 719.17 MEAN 1.97 MAX 15 MIN .46 CFSM 1.11 IN 15.11

SAVANNAH RIVER BASIN

02192000 BROAD RIVER NEAR BELL, GA.

LOCATION.--Lat 33°58'27", long 82°46'12", Elbert-Wilkes County line, Hydrologic Unit 03060104, at downstream side of main channel pier of bridge on State Highway 17, 0.5 mi (0.8 km) downstream from Long Creek, 1 mi (1.6 km) south of Bells Crossroads, and 12 mi (19.3 km) southeast of Elberton.

DRAINAGE AREA.--1,430 mi² (3,700 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1926 to September 1932, August 1937 to current year. Monthly discharge only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 1172: 1928-30. WSP 1383: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 357.16 ft (108.86 m) above mean sea level. Prior to October 1928, nonrecording gage at railroad bridge about 1 mi (1.6 km) downstream at datum 1.12 ft (0.34 m) lower. October 1928 to July 1932, and August 1937 to January 1939, nonrecording gage at present site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--46 years, 1,807 ft³/s (51.2 m³/s), 17.16 in/yr (435.9 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 79,400 ft³/s (2,250 m³/s) Oct. 2, 1929, gage height, 34.8 ft (10.61 m), from rating curve extended above 30,000 ft³/s (850 m³/s) on basis of slope-conveyance studies; minimum, 108 ft³/s (3.06 m³/s) Oct. 8, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1926, that of Oct. 2, 1929.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 14,000 ft³/s (396 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Apr. 1	1230	*13900 394	17.48 5.328

Minimum discharge, 400 ft³/s (11.3 m³/s) July 23, gage height, 3.25 ft (0.991 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1200	1240	2250	1580	1540	2330	13500	1450	1160	692	787	544
2	874	1070	1730	1470	1490	1890	6830	1480	1100	740	713	521
3	730	955	1480	1450	1450	1710	3680	1500	1020	811	1050	480
4	662	910	1350	1650	1460	1800	4870	1450	971	782	1860	459
5	631	883	1260	1690	1470	2540	6770	1440	947	707	1230	547
6	618	851	1220	1610	1440	2420	8690	1390	930	668	906	610
7	671	829	4830	2160	1390	3620	4740	1330	919	628	765	588
8	1510	820	5760	2670	1360	3540	3290	1300	945	598	680	1200
9	3550	815	2770	2350	1350	2460	2820	1280	917	688	679	2600
10	2900	802	2010	9070	1350	2090	2520	1220	867	664	693	1400
11	1550	806	1760	11200	1350	1930	2350	1180	837	586	654	1050
12	1140	829	2550	5170	1350	1930	2210	1170	847	561	584	869
13	968	878	4890	2930	1420	4320	2110	1160	905	531	541	737
14	887	896	3800	2690	1700	4780	1980	1140	957	527	509	680
15	833	4040	3190	4450	1540	2790	1900	1120	1010	533	488	724
16	788	4010	6090	3750	1420	2160	1840	1100	1010	524	483	866
17	775	1980	3810	2630	1360	1940	1800	1080	1170	515	525	1790
18	833	1420	2510	2190	1330	1800	1730	1060	1040	505	818	2980
19	815	1230	2070	1960	1320	1730	1680	1080	984	502	1180	1770
20	811	1130	1900	1870	1320	2610	1670	1110	934	492	1040	1300
21	910	1080	2280	1790	1290	3440	1630	1080	870	458	812	1070
22	941	1030	2170	1730	1270	9300	1600	1090	827	413	683	907
23	842	973	1840	1680	1270	8510	1620	1090	807	409	616	815
24	793	937	1700	1670	1650	3710	1970	1080	843	438	614	758
25	788	923	1610	1820	2460	2630	2290	1100	837	416	683	724
26	1070	928	3050	1830	1920	2250	1830	1340	789	404	719	712
27	1560	1040	3320	1780	2030	2050	1610	3160	777	776	786	741
28	1110	1420	2320	1810	2910	1940	1520	1840	764	1200	788	759
29	941	4010	1990	1830	---	3750	1470	1650	728	1040	670	750
30	892	4010	1790	1670	---	6330	1450	1440	694	1120	601	699
31	1000	---	1650	1570	---	11600	---	1300	---	931	574	---
TOTAL	33593	42745	80950	83720	43210	105900	93970	41210	27406	19859	23731	29650
MEAN	1084	1425	2611	2701	1543	3416	3132	1329	914	641	766	988
MAX	3550	4040	6090	11200	2910	11600	13500	3160	1170	1200	1860	2980
MIN	618	802	1220	1450	1270	1710	1450	1060	694	404	483	459
CFSM	.76	1.00	1.83	1.89	1.08	2.39	2.19	.93	.64	.45	.54	.69
IN.	.87	1.11	2.11	2.18	1.12	2.75	2.44	1.07	.71	.52	.62	.77

CAL YR 1976	TOTAL	817412	MEAN	2233	MAX	28900	MIN	499	CFSM	1.56	IN	21.26
WTR YR 1977	TOTAL	625944	MEAN	1715	MAX	13500	MIN	404	CFSM	1.20	IN	16.28

SAVANNAH RIVER BASIN

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02192000 BROAD RIVER NEAR BELL, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
DEC 28...	1320	2260	7.0	12.0	5.0	12.6
APR 28...	1420	1520	7.2	26.0	16.0	9.2
AUG 03...	0935	870	6.6	21.0	23.0	7.4
SEP 14...	0805	685	7.1	25.5	23.5	7.7

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)
DEC 28...	42	60	31	.5	230
APR 28...	46	40	28	.5	230
AUG 03...	67	--	48	.4	930
SEP 14...	46	--	40	.5	430

SAVANNAH RIVER BASIN

02192000 BROAD RIVER NEAR BELL, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	HARD- NESS (CA, MG) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC 28...	12	14	.26	<.02	.07	2.0
APR 28...	11	17	.29	<.02	.05	2.0
AUG 03...	--	--	.26	<.02	.07	4.0
SEP 14...	--	--	.19	<.02	.19	2.0

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TUR- BID- ITY (NTU)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT 06...	1400	618	--	23	38	--
NOV 11...	1230	806	--	14	30	--
DEC 20...	1430	1890	--	43	219	82
FEB 01...	1250	1540	--	26	108	70
MAR 17...	1550	1900	34	74	380	75
APR 26...	1130	1830	56	86	425	82
JUN 07...	1450	914	22	55	136	82
JUL 21...	1440	428	13	32	37	86
SEP 01...	1345	532	19	55	79	86

02196820 BUTLER CREEK AT FORT GORDON, GA.

LOCATION.--Lat 33°26'33", long 82°07'43", Richmond County, Hydrologic Unit 03060106, on upstream side of old bridge 600 ft (183 m) upstream from U.S. Highways 78 and 278 at Fort Gordon.

DRAINAGE AREA.--7.5 mi² (19.4 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 280 ft (85.3 m), from topographic map.

REMARKS.--Records fair except those of no gage-height record, Feb. 19 to Mar. 28 and June 21 to Aug. 1, which are poor.

AVERAGE DISCHARGE.--9 years, 7.81 ft³/s (0.221 m³/s), 14.14 in/yr (359.2 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 7.00 ft (2.134 m), from floodmark, Mar. 3, 1971 (discharge not determined);

minimum daily discharge, 0.10 ft³/s (0.003 m³/s) June 29, July 21, 1969

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 321 ft³/s (9.09 m³/s) Mar. 21, gage height, 5.44 ft (1.658 m), from flood mark;

minimum daily, 0.54 ft³/s (0.015 m³/s) July 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	4.8	9.8	9.5	9.0	13	14	5.3	2.2	1.2	40	2.2
2	2.4	4.4	8.9	9.3	9.0	10	12	4.8	1.6	1.1	40	2.0
3	2.2	4.4	8.2	18	9.1	9.0	11	4.3	1.3	1.7	75	2.4
4	2.1	4.4	7.9	15	9.3	7.2	11	3.9	1.3	3.0	20	5.0
5	2.0	4.3	7.6	11	9.0	19	22	3.8	1.2	2.0	7.2	7.0
6	1.8	4.4	12	11	8.4	14	12	3.3	1.1	2.4	4.4	3.9
7	3.5	4.6	42	21	8.3	50	10	3.0	1.1	1.8	3.3	3.5
8	23	4.2	14	12	8.3	22	9.2	3.1	1.3	1.5	2.5	4.2
9	58	4.3	10	12	8.1	15	8.1	2.7	1.2	1.1	2.2	3.8
10	8.4	4.5	9.5	43	8.2	11	7.9	2.5	1.3	.95	2.3	7.5
11	5.3	4.5	18	16	8.1	9.0	7.7	2.7	1.2	.82	1.9	14
12	4.2	4.9	61	13	8.1	8.0	7.2	2.6	1.8	.70	1.7	3.2
13	3.7	5.0	27	12	8.5	65	7.0	2.5	2.1	.66	1.6	3.2
14	3.4	6.4	16	18	8.0	30	6.6	2.4	2.2	.62	2.3	3.0
15	3.0	34	23	15	7.7	18	6.1	2.2	4.4	.60	2.3	6.4
16	2.8	11	16	12	7.4	15	5.8	2.2	3.4	.58	7.0	35
17	4.6	7.7	13	11	7.5	13	5.6	2.1	3.2	.56	3.1	13
18	4.4	7.0	12	11	7.8	10	5.4	2.0	3.0	.55	6.4	6.5
19	3.4	6.2	11	11	8.0	10	5.4	2.0	2.0	.55	8.5	4.7
20	16	5.9	11	10	7.6	30	5.0	1.8	2.2	.55	4.2	4.3
21	7.4	5.9	11	9.7	7.3	150	5.0	1.9	1.5	.54	3.0	3.6
22	4.6	5.3	9.7	9.5	7.0	50	4.8	2.5	1.1	.80	2.2	3.1
23	3.9	4.9	9.7	9.3	8.5	30	11	2.6	1.3	1.0	2.0	3.0
24	3.8	5.2	9.3	12	15	25	12	4.3	1.7	.75	2.2	3.0
25	7.1	5.2	12	12	10	20	7.4	7.2	2.2	.63	24	3.2
26	15	8.7	37	9.8	8.0	15	5.3	8.7	1.7	.58	18	4.2
27	6.0	12	14	11	7.0	13	4.8	4.4	2.2	.56	6.2	4.6
28	4.7	42	12	13	20	13	4.5	3.8	1.5	1.0	4.2	9.6
29	4.4	38	11	11	---	16	4.2	3.3	1.2	3.0	3.1	4.1
30	4.8	12	10	9.2	---	19	4.7	2.6	1.0	2.0	2.7	3.7
31	6.3	---	10	9.5	---	26	---	3.1	---	1.5	2.5	---
TOTAL	224.7	276.1	483.6	406.8	248.2	755.2	242.7	103.6	54.5	35.30	306.0	176.9
MFAN	7.25	9.20	15.6	13.1	8.86	24.4	8.09	3.34	1.82	1.14	9.87	5.90
MAX	58	42	61	43	20	150	22	8.7	4.4	3.0	75	35
MIN	1.8	4.2	7.6	9.2	7.0	7.2	4.2	1.8	1.0	.54	1.6	2.0
CFSM	.97	1.73	2.08	1.75	1.18	3.25	1.08	.45	.24	.15	1.32	.79
IN ₉	1.11	1.37	2.40	2.02	1.23	3.75	1.20	.51	.27	.18	1.52	.88
CAL YR 1976	TOTAL	2483.04	MEAN 7.33	MAX 100	MIN .50	CFSM .98	IN 13.31					
WTR YR 1977	TOTAL	3313.60	MEAN 9.08	MAX 150	MIN .54	CFSM 1.21	IN 16.43					

SAVANNAH RIVER BASIN

02197000 SAVANNAH RIVER AT AUGUSTA, GA.

LOCATION.--Lat 33°22'25", long 81°56'35", Richmond County, Ga.--Aiken County, S.C., Hydrologic Unit 03060106, at New Savannah Bluff lock and dam, 0.2 mi (0.3 km) upstream from Butler Creek, 12.0 mi (19.3 km) downstream from Augusta, and at mile 187.4 (301.5 km).

DRAINAGE AREA.--7,508 mi² (19,446 km²), including that of Butler Creek.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1883 to December 1891, January 1896 to December 1906, January 1925 to current year. Monthly discharge only for some periods, published in WSP 1303. Gage-height records collected at site of Fifth Street gage from 1875 to 1952 and at New Savannah Bluff lock and dam sites since 1937 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1303: 1927-39 (monthly runoff). WSP 1433: 1888, 1896-99, 1902-03, 1906-07, and 1932(M). WDR SC-77-1: 1975.

GAGE.--Water-stage recorder. Datum of gage is 96.58 ft (29.44 m) above mean sea level (Corps of Engineers bench mark). Oct. 1, 1883 to Dec. 31, 1891, Jan. 1, 1896 to Dec. 31, 1906, Jan. 1, 1925 to Sept. 30, 1932, nonrecording or recording gage at Fifth Street Bridge at datum 102.06 ft (31.11 m) above mean sea level (levels by Southeastern Engineering Co.). Oct. 1, 1932 to Sept. 30, 1936, recording gage at Thirteenth Street Bridge at datum 104.56 ft (31.87 m) above mean sea level (levels by Corps of Engineers) Oct. 1, 1936 to Nov. 10, 1948, recording gage at site 0.2 mi (0.3 km) downstream from present site and at present datum.

REMARKS.--Records good. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, and Clark Hill Reservoir. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, 02187250, and 02194500). Records of chemical analyses for the water years 1968-72 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--70 years, 10,200 ft³/s (289 m³/s), 18.45 in/yr (468.6 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 350,000 ft³/s (9,910 m³/s) Oct. 3, 1929; maximum gage height, 46.3 ft (14.11 m) Sept. 27, 1929 (at site and datum then in use); minimum discharge, 648 ft³/s (18.4 m³/s) Sept. 24, 1939, from rating curve extended below 1,400 ft³/s (39.6 m³/s); minimum daily, 1,040 ft³/s (29.5 m³/s) Oct. 2, 1927.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood known occurred in 1796, discharge, 360,000 ft³/s (10,200 m³/s), gage height, 40 ft (12.2 m), marked by local residents, at site and datum of Fifth Street gage, by conveyance-slope study.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 34,200 ft³/s (969 m³/s) Apr. 7, gage height, 20.50 ft (6.248 m); minimum daily, 6,000 ft³/s (170 m³/s) Oct. 4.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8120	7340	20900	13100	10500	8850	28300	9310	8170	9170	7340	6960
2	7980	7180	18800	10800	11800	9290	26600	8940	8120	8830	7010	6960
3	7870	7100	17800	10900	11400	8030	21600	10300	7890	7940	7720	6930
4	6000	7420	16900	14400	11400	8420	19400	10800	7920	7560	8600	6820
5	6940	7720	13900	14600	10300	8550	26500	10500	7510	7460	8520	6740
6	7290	8170	14000	14300	8220	8460	31400	10700	7030	8210	8240	6590
7	7730	7290	18100	13500	8230	10500	32200	10500	9700	8270	7820	6640
8	8100	6870	24500	11900	9900	12100	30100	8320	8140	8000	7290	6850
9	14300	7440	21200	9630	9980	10200	25300	7890	7580	7680	7040	6930
10	19900	7650	20100	13700	9370	8480	24400	7880	7640	7560	6950	7120
11	17400	7920	18400	23800	8810	8570	25300	8620	7950	7280	6900	7090
12	12600	7860	20800	18900	8430	8730	26700	9010	7680	6920	6840	6770
13	8850	7610	31100	15900	7510	12000	26700	8900	7020	7020	6930	6590
14	7620	7610	28900	14700	8260	23300	27100	8590	6630	7250	7230	6620
15	7790	7070	25600	14900	9130	17700	25500	8160	7120	7300	6980	6980
16	8030	11100	28600	11800	8120	11300	20300	7750	7320	7320	6830	7110
17	8160	12900	26600	12000	8430	9230	15800	7590	7810	7310	6860	7230
18	7400	9600	24900	15800	8540	9010	15400	7680	8010	7060	6900	7270
19	6910	7820	19700	14500	8620	9050	19100	7640	7870	6990	7070	7000
20	7720	8230	19200	15900	7980	8270	19900	7560	7470	7650	8060	6820
21	8490	7990	23600	16100	7510	8730	18400	7660	7050	7790	7600	6910
22	8350	8290	23800	14100	7880	18600	15400	7400	7360	8170	6970	6870
23	8690	10700	23700	11600	7970	24000	13000	7160	7640	8060	6610	6630
24	8330	13100	19500	11900	8000	18600	10700	6990	7600	7700	6690	6530
25	7300	12500	15800	11400	8270	17400	9350	7490	8000	7350	6880	6970
26	7370	11600	15000	10800	8740	16000	10100	7810	7850	7490	7330	7050
27	7770	10900	17000	11200	8260	13200	10200	7930	7550	7370	7500	6840
28	7900	9300	18000	10100	8310	13200	10500	8450	8230	7130	7180	7200
29	8340	16100	17400	9450	---	17000	10400	8030	8380	7230	6780	7230
30	8120	25100	16800	8790	---	19100	9700	7510	8100	7300	6640	7010
31	7910	---	15800	9030	---	27800	---	7210	---	7600	6980	---
TOTAL	275280	287480	636400	409500	249870	403670	605350	260280	232340	235970	224290	207260
MEAN	8880	9583	20530	13210	8924	13020	20180	8396	7745	7612	7235	6909
MAX	19900	25100	31100	23800	11800	27800	32200	10800	9700	9170	8600	7270
MIN	6000	6870	13900	8790	7510	8030	9350	6990	6630	6920	6610	6530

CAL YR 1976 TOTAL 4498290 MEAN 12290 MAX 31900 MIN 6000 MEAN† 12366 CFSM† 1.65 IN† 22.42
WTR YR 1977 TOTAL 4027690 MEAN 11030 MAX 32200 MIN 6000 MEAN† 10843 CFSM† 1.44 IN† 19.60

† Adjusted for change in contents in Lake Burton, Mathis Reservoir, Hartwell Lake, and Clark Hill Reservoir.

02197000 SAVANNAH RIVER AT AUGUSTA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1949 to September 1950, February 1968 to September 1972, July 1973 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1973 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 26.0°C July 30, 1974; minimum, 4.5°C Jan. 30, 31, Feb. 2, 4, 1977.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 25.5°C Aug. 30 to Sept. 1; minimum, 4.5°C Jan. 30, 31, Feb. 2, 4.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	23.0	22.0	17.0	16.5	11.5	11.0	8.5	8.0	5.0	5.0	9.0	8.0
2	22.5	21.5	17.0	16.0	11.5	11.0	7.5	7.5	5.5	4.5	9.5	8.0
3	23.0	22.0	16.5	16.0	11.5	11.0	7.5	7.0	5.0	5.0	9.5	8.5
4	23.0	22.0	17.0	16.0	11.5	11.0	8.0	7.0	5.5	4.5	10.0	9.5
5	23.0	22.5	16.5	16.0	11.5	11.0	8.5	8.0	6.0	5.5	10.0	9.5
6	23.0	22.0	15.5	15.0	11.5	10.5	8.0	7.5	6.5	6.0	9.5	8.5
7	22.5	22.0	15.5	15.0	11.0	10.0	8.5	7.5	6.0	5.5	10.0	9.0
8	22.5	22.0	15.5	14.5	10.5	9.0	8.0	7.5	5.5	5.0	11.0	9.5
9	22.5	20.5	14.5	13.5	10.0	9.0	7.5	7.5	5.5	5.0	11.0	10.0
10	20.5	20.0	15.0	14.0	11.0	10.0	7.5	6.5	6.0	5.5	11.0	10.0
11	19.5	19.0	16.0	14.5	11.0	10.5	6.5	5.5	6.5	6.0	11.0	10.0
12	20.0	19.0	16.0	15.5	11.0	10.0	6.0	5.5	7.0	6.5	11.0	10.5
13	20.5	19.5	16.0	14.5	11.0	10.5	7.0	6.0	8.5	7.0	14.0	11.0
14	21.0	20.0	14.5	13.5	10.5	10.0	7.0	6.5	8.5	7.5	14.5	13.0
15	21.5	20.5	13.5	13.0	10.0	10.0	7.0	6.5	7.5	7.0	14.5	13.5
16	21.5	20.5	13.0	10.5	10.5	10.0	7.0	6.5	8.0	7.0	14.0	13.0
17	21.0	20.5	12.0	10.0	10.5	10.0	6.5	5.0	7.5	6.5	13.5	12.5
18	20.5	19.5	13.0	11.5	10.5	10.0	6.0	5.0	7.0	6.5	13.0	12.0
19	19.5	19.0	13.5	13.0	10.5	10.0	5.0	4.5	7.5	6.5	13.0	12.5
20	19.5	19.0	14.0	13.5	10.5	10.0	5.5	5.0	8.0	7.0	13.0	11.5
21	19.0	18.0	14.0	13.5	10.0	8.5	6.0	5.0	8.0	7.0	12.5	12.0
22	18.5	18.0	13.5	12.5	9.0	8.5	6.0	5.0	7.5	6.5	12.5	11.5
23	19.0	18.0	12.5	12.0	9.0	8.5	5.5	5.0	8.5	7.0	12.0	11.0
24	19.0	18.5	13.0	12.0	9.0	8.5	5.5	5.0	9.5	8.0	12.5	12.0
25	19.0	18.5	13.0	12.5	9.0	8.5	5.5	5.0	10.5	9.0	12.0	11.0
26	19.0	19.0	13.0	12.5	9.5	8.5	5.5	5.0	10.5	9.5	11.5	11.0
27	19.0	18.5	13.5	13.0	8.5	7.5	6.0	5.5	11.0	9.5	11.5	11.0
28	18.5	17.0	13.5	13.5	9.0	8.5	6.5	6.0	11.0	9.0	12.5	11.5
29	17.0	16.5	13.5	12.0	9.0	8.0	6.0	5.5	---	---	12.0	11.0
30	17.0	16.5	12.5	11.5	8.5	8.0	5.0	4.5	---	---	13.0	10.5
31	17.5	17.0	---	---	9.0	8.5	5.0	4.5	---	---	13.0	11.0
MONTH	23.0	16.5	17.0	10.0	11.5	7.5	8.5	4.5	11.0	4.5	14.5	8.0

SAVANNAH RIVER BASIN

02197000 SAVANNAH RIVER AT AUGUSTA, GA.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	12.5	11.0	16.5	16.0	22.0	18.0	22.0	19.5	23.0	21.5	25.5	24.0
2	12.5	11.0	17.5	15.5	20.5	18.0	20.5	19.0	23.0	22.0	25.0	24.5
3	13.5	12.0	17.5	16.5	20.5	18.0	22.0	20.0	23.0	21.0	25.0	23.5
4	13.5	12.5	17.0	16.5	20.5	18.0	23.0	21.0	22.0	21.0	24.0	23.5
5	13.0	12.0	17.0	16.0	20.5	18.5	22.5	21.5	23.5	21.5	24.0	23.0
6	14.0	11.5	17.5	16.0	20.5	19.0	22.5	21.0	24.5	22.0	24.5	23.5
7	14.0	13.0	17.5	16.0	20.5	18.0	22.0	20.5	24.5	22.5	24.5	24.0
8	14.0	13.0	19.0	16.5	19.0	17.5	22.5	20.5	25.0	23.0	24.5	24.0
9	14.0	13.0	19.5	17.5	20.0	18.5	23.0	21.0	25.0	23.5	24.0	23.0
10	14.0	13.0	18.5	17.0	20.0	18.5	23.0	21.0	25.0	23.5	23.5	23.0
11	14.0	13.0	18.0	16.0	20.0	17.5	23.5	21.5	24.5	23.5	24.0	23.0
12	14.5	13.5	17.5	15.0	20.0	18.0	24.0	22.5	25.0	23.5	24.0	23.0
13	14.5	13.5	17.5	15.5	21.0	19.5	24.0	22.0	25.0	23.5	24.0	23.5
14	14.5	13.5	18.0	16.0	22.5	21.0	22.5	21.0	24.0	23.0	24.5	23.5
15	15.0	13.5	18.0	16.5	22.0	20.0	22.5	21.0	24.0	23.0	24.0	23.5
16	16.0	14.0	18.5	17.0	21.0	19.0	23.0	21.5	24.5	23.5	24.5	24.0
17	16.0	14.5	19.5	18.0	20.5	18.5	23.0	21.0	24.5	23.5	24.5	23.5
18	16.0	15.0	19.5	17.5	20.5	18.5	23.5	21.5	24.5	23.5	24.5	23.5
19	15.5	14.0	19.0	17.0	21.0	19.0	24.0	22.5	24.0	22.5	25.0	24.0
20	15.5	14.0	19.5	17.5	22.0	20.0	23.5	21.5	23.0	22.0	25.0	24.5
21	15.5	14.0	19.5	17.5	23.0	22.0	23.0	21.0	23.5	22.0	25.0	24.5
22	16.0	14.5	19.5	17.5	23.0	20.5	23.0	21.0	24.0	22.5	25.0	24.0
23	16.5	15.0	20.0	17.5	22.0	20.0	22.0	20.5	24.5	23.5	24.5	24.0
24	16.5	15.0	20.0	18.5	21.5	20.0	22.5	21.5	24.5	23.5	24.5	23.5
25	17.0	15.5	19.5	17.0	21.5	20.0	23.0	21.0	24.5	23.5	24.0	22.5
26	16.5	15.0	20.0	16.5	22.0	20.0	23.0	22.0	24.5	23.5	24.0	23.0
27	15.5	14.5	20.0	17.0	22.0	20.5	23.0	21.5	24.5	23.0	24.5	24.0
28	16.0	14.5	20.5	17.0	22.5	21.0	22.0	21.0	24.5	23.5	24.5	24.0
29	16.5	15.0	19.5	17.5	21.5	19.5	21.5	20.0	25.0	24.0	24.0	23.5
30	16.5	16.0	20.0	18.5	22.0	20.0	21.0	19.5	25.5	24.5	24.0	23.0
31	---	---	21.0	19.0	---	---	22.0	20.5	25.5	24.0	---	---
MONTH	17.0	11.0	21.0	15.0	23.0	17.5	24.0	19.0	25.5	21.0	25.5	22.5

SAVANNAH RIVER BASIN

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02197320 SAVANNAH RIVER NEAR JACKSON, S.C.

LOCATION.--Lat 33°13'01", long 81°46'04", Aiken County, S.C.-Burke County, Ga., Hydrologic Unit 03060106, on left bank 1.4 mi (2.3 km) downstream from Upper Three Runs Creek, 6.2 mi (10.0 km) south of Jackson, 15.2 mi (24.5 km) upstream from Steel Creek, and at mile 156.8 (252.3 km).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1971 to current year, discharge below 20,000 ft³/s (566 m³/s), only.

GAGE.--Water-stage recorder. Datum of gage is 77.0 ft (23.47 m) above mean sea level.

REMARKS.--Records fair. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, and Clark Hill Reservoir. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, 02187250, and 02194500.)

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 20.22 ft (6.163 m) Mar. 3, 1975; minimum daily discharge, 6,330 ft³/s (179 m³/s) Oct. 5, 1971, Oct. 21, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 18.85 ft (5.745 m) Apr. 8; minimum daily discharge, 6,420 ft³/s (182 m³/s) June 14.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8420	7900	---	17800	10200	9580	21100	10000	8400	8620	7280	7150
2	8260	7600	22000	15400	12300	10000	---	9000	8300	9570	6830	6990
3	7960	7600	20100	12300	12400	8990	---	10300	7900	7890	7380	7100
4	7420	7800	19600	14600	12500	8760	21400	11400	7810	7290	8920	6960
5	6930	7840	18900	16100	12100	9470	20900	11300	7270	7230	9080	7070
6	7030	8320	17300	16300	9670	9800	21600	11400	6680	7810	8750	6910
7	7430	8190	17700	16300	8050	10600	---	11600	8280	8250	8100	6850
8	7990	7260	19500	15400	9770	14000	---	9460	8620	7970	7280	7170
9	11000	7310	20900	12700	10800	13800	---	8130	7560	7460	6900	7330
10	16200	7900	21000	11800	10600	16800	---	8030	7380	7390	6850	7310
11	18100	8200	20600	16900	9710	9360	21900	8000	7450	7070	6840	7350
12	17800	8000	20300	19300	9220	9730	21800	9110	7610	6500	6660	7010
13	14400	7900	20800	19400	8070	10400	22000	8980	6960	6660	6690	6900
14	9790	7900	---	18500	7600	16200	---	8500	6420	7090	7050	6800
15	8380	8000	---	17800	9400	19100	---	8400	6820	7210	6970	7200
16	8230	11200	---	16600	8480	18400	22000	8200	7110	7160	6760	7350
17	8600	12500	---	14000	9450	14500	21000	7900	7550	7180	6880	7540
18	8250	12000	---	16500	8620	11700	19100	7900	7850	6820	6960	7710
19	7450	9700	---	16500	8780	10100	18700	7900	7740	6590	7150	7310
20	8000	8600	20900	16700	8210	9610	19400	8000	7140	7220	7520	6920
21	8800	8400	20400	16900	7410	8880	19800	7900	6840	7650	7540	7000
22	8800	8700	20800	16200	7760	13800	19300	7600	7320	7760	7050	6980
23	8900	11000	21100	15000	8050	18700	18000	7300	7830	7960	6580	6780
24	8800	13000	21100	13400	8410	20500	15800	7100	7640	7440	6700	6490
25	8300	13200	20400	12800	8860	20400	12500	7600	7700	7140	6910	6830
26	7900	12500	19200	12200	9160	19800	11300	8000	7540	6490	7430	7230
27	8100	12000	18400	12000	8730	18700	11200	8400	7240	6490	8040	7070
28	8300	11500	18900	11900	8880	16500	11100	8800	7410	6730	7690	7540
29	8500	15000	19200	10700	---	16900	11400	8300	8480	7080	7060	7730
30	8500	22000	19100	9810	---	18100	11000	7800	8350	7180	6790	7410
31	8300	---	18800	9000	---	19500	---	7500	---	7520	6920	---
TOTAL	290840	299020	---	460810	262190	426680	---	269810	227200	228420	225560	213990
MEAN	9382	9967	---	14860	9364	13760	---	8704	7573	7368	7276	7133
MAX	18100	22000	---	19400	12500	20500	---	11600	8620	9570	9080	7730
MIN	6930	7260	---	9000	7410	8760	---	7100	6420	6490	6580	6490

SAVANNAH RIVER BASIN

02197320 SAVANNAH RIVER NEAR JACKSON, S.C.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1972 to June 1974.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1971 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 26.0°C Aug. 14, 1973, July 31, Aug. 27, 28, 1974, Aug. 19, 20, 1975, Aug. 8-11, 30, 31, Sept. 1, 1977; minimum, 4.5°C Jan. 19, 20, 22, 23, Feb. 1, 1977.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 26.0°C Aug. 8-11, 30, 31, Sept. 1; minimum, 4.5°C Jan. 19, 20, 22, 23, Feb. 1.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	23.0	22.5	16.5	16.0	---	---	8.5	7.5	5.5	4.5	10.5	9.5
2	22.5	21.5	16.0	15.5	---	---	7.5	6.5	5.5	5.0	10.0	9.0
3	22.5	21.5	16.0	15.0	---	---	7.0	6.5	5.5	5.0	10.5	9.5
4	22.5	22.0	16.0	15.5	---	---	7.5	7.0	5.5	5.0	11.5	10.5
5	23.0	22.0	15.5	15.0	---	---	8.0	7.5	6.5	5.5	11.5	11.0
6	23.0	22.0	15.5	14.5	---	---	8.0	8.0	6.5	6.0	11.5	11.0
7	22.5	22.5	15.0	14.5	---	---	8.0	8.0	6.5	6.0	11.5	10.5
8	23.0	22.5	14.5	14.0	---	---	8.0	7.5	6.0	5.5	11.5	10.0
9	22.5	22.0	14.0	13.5	---	---	7.5	7.5	6.0	5.0	11.5	11.0
10	21.5	20.0	---	---	---	---	7.5	7.0	6.0	5.5	12.0	11.0
11	20.0	19.0	---	---	---	---	7.0	6.0	7.0	6.0	12.5	12.0
12	19.0	18.0	---	---	---	---	6.0	5.0	8.0	7.0	13.0	12.0
13	19.0	18.0	---	---	---	---	5.5	5.0	9.0	8.0	14.0	13.0
14	20.0	19.0	---	---	10.5	10.0	6.0	5.5	9.5	8.0	15.0	12.5
15	20.5	20.0	---	---	10.0	10.0	6.5	6.0	9.0	8.5	16.0	14.0
16	21.0	20.0	---	---	10.5	10.0	7.0	6.0	8.5	8.0	16.5	15.5
17	20.5	20.0	---	---	10.5	10.0	6.0	5.5	8.0	7.5	16.0	15.0
18	20.0	19.0	---	---	10.5	10.0	5.5	5.0	7.5	7.0	15.0	14.5
19	19.0	18.5	---	---	10.5	10.0	5.0	4.5	8.5	7.0	15.0	14.5
20	18.5	18.0	---	---	10.5	10.5	5.0	4.5	8.5	8.0	15.0	14.0
21	18.0	17.5	---	---	10.5	8.5	5.0	5.0	8.5	7.5	14.0	13.5
22	17.5	16.5	---	---	8.5	8.0	5.0	4.5	8.5	7.5	13.5	12.5
23	17.5	16.5	---	---	8.0	7.5	5.0	4.5	9.0	7.5	12.5	12.0
24	18.0	17.5	---	---	8.0	7.5	5.0	5.0	10.5	8.5	13.5	12.5
25	18.5	18.0	---	---	8.0	7.5	5.5	5.0	11.0	10.0	13.5	13.0
26	19.0	18.5	---	---	8.5	8.0	5.5	5.0	11.5	10.5	13.5	12.5
27	18.5	18.0	---	---	8.5	8.0	6.0	5.5	11.5	11.0	13.0	12.5
28	18.0	16.5	---	---	8.5	8.0	6.5	6.0	11.5	10.0	13.5	13.0
29	16.5	16.0	---	---	8.5	8.5	6.5	5.5	---	---	13.5	12.5
30	16.0	15.5	---	---	8.5	8.0	6.0	5.0	---	---	13.5	12.5
31	17.0	16.0	---	---	8.5	8.0	5.5	5.0	---	---	14.5	13.0
MONTH	23.0	15.5	16.5	13.5	10.5	7.5	8.5	4.5	11.5	4.5	16.5	9.0

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[illegible]

SAVANNAH RIVER BASIN

02197370 SAVANNAH RIVER BELOW STEEL CREEK, NEAR MILLET, S.C.

LOCATION.--Lat 33°04'58", long 81°35'54", Allendale County, S.C.-Burke County, Ga., Hydrologic Unit 3060106, on left bank 2.8 mi (4.5 km) downstream from Steel Creek, 12.6 mi (20.3 km) upstream from Lower Three Runs, 3.7 mi (6.0 km) west of Millet, and at mile 138.8 (223.3 km).

PERIOD OF RECORD.--Water years 1972 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 27.0°C Aug. 15, 1973, July 31, Aug. 1, 1974, Aug. 27, 1975, Aug. 11, 17, 30, 31, Sept. 1, 1977, minimum, 4.0°C Jan. 20, 1977.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 27.0°C Aug. 11, 17, 30, 31, Sept. 1; minimum, 4.0°C Jan. 20.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	23.0	22.5	17.0	16.5	13.0	12.0	8.5	8.0	5.5	5.0	11.0	10.0
2	22.5	22.0	16.5	16.0	12.0	11.0	8.0	7.0	6.0	5.5	10.0	9.5
3	22.5	21.5	16.5	15.5	11.0	10.0	7.0	6.5	5.5	5.5	10.5	9.5
4	23.0	22.0	16.5	15.5	10.0	9.5	7.5	7.0	6.0	5.5	11.5	10.5
5	23.0	22.0	16.0	15.0	10.5	9.5	8.0	7.5	6.5	6.0	11.5	11.5
6	23.0	22.5	15.5	14.5	10.5	10.0	8.5	8.0	7.0	6.0	11.5	11.0
7	23.0	23.0	15.5	14.5	11.0	10.5	8.5	8.0	7.0	6.5	11.5	11.0
8	23.0	22.5	15.0	14.0	10.5	9.5	8.0	8.0	6.5	6.0	11.0	10.5
9	23.0	22.0	14.5	13.5	9.5	8.5	8.0	8.0	6.5	6.0	11.5	10.5
10	22.0	20.5	14.5	13.5	9.5	8.5	8.5	7.5	6.5	6.0	12.0	11.0
11	20.0	19.5	15.0	14.0	10.5	9.5	7.5	6.5	7.5	6.0	13.0	12.0
12	19.5	18.0	15.5	15.0	11.0	10.5	6.5	5.5	8.0	7.0	13.5	12.5
13	18.5	17.5	15.5	14.5	11.5	11.0	5.5	5.5	9.0	8.0	14.5	13.5
14	19.5	18.5	15.0	14.0	11.0	10.5	6.5	5.5	9.0	8.5	14.5	13.0
15	20.5	19.0	14.0	13.0	10.5	10.0	7.0	6.5	10.0	9.0	15.0	14.0
16	20.5	19.5	13.0	13.0	10.5	10.0	7.0	6.5	9.5	8.5	16.0	15.0
17	20.5	20.0	13.0	12.5	10.5	10.0	6.5	5.5	8.5	8.0	16.0	16.0
18	20.0	19.0	12.5	11.0	10.5	10.0	5.5	5.0	8.5	7.5	15.5	15.0
19	19.0	18.5	12.0	11.5	10.5	10.0	5.0	4.5	9.0	8.0	15.5	15.0
20	18.5	18.0	13.0	11.5	10.5	10.5	5.0	4.0	9.0	8.5	15.0	14.5
21	18.0	17.5	13.5	13.0	10.5	9.0	5.0	4.5	9.0	8.0	15.0	13.5
22	17.5	17.0	14.0	13.0	9.0	8.0	5.5	5.0	9.0	8.0	14.0	13.0
23	17.5	16.5	13.5	12.0	8.0	7.5	5.0	4.5	9.5	8.5	13.0	12.0
24	18.0	17.5	12.5	11.5	8.0	7.5	5.5	5.0	10.5	9.5	13.0	12.0
25	18.5	18.0	12.0	11.5	8.0	7.5	6.0	5.5	11.5	10.5	14.0	13.0
26	19.0	19.0	12.5	12.0	8.5	8.0	6.0	5.5	12.0	11.0	13.5	13.0
27	19.0	18.0	12.5	12.0	9.0	8.5	6.0	6.0	12.0	11.5	13.0	13.0
28	18.0	17.0	13.0	12.5	8.5	8.0	7.0	6.0	12.0	11.0	14.0	13.0
29	17.0	16.0	14.0	13.0	9.0	8.5	6.5	6.0	---	---	14.0	14.0
30	16.5	16.0	14.0	13.0	8.5	8.5	6.0	5.5	---	---	14.0	13.5
31	17.0	16.5	---	---	8.5	8.5	6.0	5.5	---	---	14.5	13.5
MONTH	23.0	16.0	17.0	11.0	13.0	7.5	8.5	4.0	12.0	5.0	16.0	9.5

02197370 SAVANNAH RIVER BELOW STEEL CREEK, NEAR MILLET, S.C.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MTN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	14.5	14.0	18.0	17.5	23.5	22.5	23.5	23.0	24.0	23.0	27.0	26.0
2	15.0	14.5	18.5	18.0	23.0	22.5	23.5	22.0	24.0	23.5	26.5	25.5
3	15.0	14.5	18.5	18.5	22.5	21.5	23.0	21.5	24.0	23.5	26.0	25.5
4	15.5	15.0	19.0	19.0	22.5	22.0	24.0	22.5	23.5	23.0	25.5	24.5
5	15.5	15.0	19.0	19.0	22.5	22.0	24.5	23.5	24.0	23.0	25.5	24.5
6	15.0	14.0	19.5	19.0	23.0	22.0	25.0	24.0	24.5	23.5	26.0	25.0
7	14.5	13.5	19.5	19.0	23.5	22.0	25.0	24.0	25.0	24.5	26.5	25.5
8	14.5	14.0	20.0	19.5	22.5	21.5	24.5	23.5	26.0	25.0	26.0	25.5
9	15.0	14.5	20.0	20.0	21.5	20.5	25.0	24.0	26.5	25.5	25.5	25.0
10	15.0	14.5	20.5	19.5	22.0	21.0	25.5	24.5	26.5	26.0	26.0	24.5
11	15.0	14.5	19.5	19.0	22.5	21.0	25.0	24.5	27.0	25.5	25.5	24.5
12	15.5	15.0	19.0	18.5	22.5	21.5	25.5	24.5	26.5	25.5	25.0	24.0
13	15.5	15.5	19.0	17.5	23.0	22.0	26.5	25.0	26.5	25.5	25.0	24.0
14	16.0	15.5	19.0	18.0	24.0	22.5	26.0	25.0	26.0	25.0	25.5	24.5
15	16.0	15.5	20.0	18.5	24.0	23.0	25.0	24.5	26.0	25.0	26.0	24.0
16	16.5	16.0	20.5	19.5	24.0	22.5	25.5	24.5	26.0	25.0	25.5	24.5
17	16.5	16.0	21.5	20.0	22.5	22.0	25.0	24.5	27.0	25.5	25.5	24.5
18	17.0	16.5	22.0	20.5	22.5	22.0	25.0	24.0	26.0	25.0	25.5	25.0
19	17.0	17.0	22.0	21.0	23.0	22.0	25.5	24.5	25.0	24.5	25.5	24.5
20	17.0	16.5	21.5	21.0	23.5	22.5	26.0	25.0	25.0	24.0	26.0	25.0
21	17.0	16.5	21.5	21.0	24.5	23.5	25.5	24.5	24.5	23.5	26.5	25.0
22	17.0	16.5	21.0	21.0	25.0	23.5	24.5	24.0	25.0	24.0	26.0	25.0
23	17.0	17.0	21.5	20.5	24.5	23.5	24.5	24.0	26.0	24.5	25.5	25.0
24	17.5	17.0	21.0	20.0	24.0	23.0	24.0	23.5	26.0	25.0	25.0	24.5
25	17.5	17.0	21.0	20.0	23.5	23.0	25.0	23.5	26.5	25.0	25.5	24.0
26	17.5	17.5	21.0	20.0	23.5	22.5	24.5	24.0	26.0	25.0	25.0	24.5
27	17.5	17.0	20.5	19.5	23.5	22.5	24.5	24.0	26.0	25.0	25.0	24.0
28	17.0	17.0	21.0	20.0	25.0	23.5	24.0	23.0	26.0	25.0	25.5	24.5
29	17.5	17.0	21.5	20.5	24.5	23.5	23.0	22.5	26.0	25.5	25.0	24.0
30	17.5	17.5	22.0	21.5	24.5	23.0	23.5	22.5	27.0	25.5	24.0	23.5
31	---	---	23.0	21.5	---	---	23.5	22.5	27.0	26.0	---	---
MONTH	17.5	13.5	23.0	17.5	25.0	20.5	26.5	21.5	27.0	23.0	27.0	23.5

02197500 SAVANNAH RIVER AT BURTONS FERRY BRIDGE, NEAR MILLHAVEN, GA.

LOCATION.--Lat 32°56'20", long 81°30'10", Screven County, Ga.--Allendale County, S.C., Hydrologic Unit 03060106, at bridge on U.S. Highway 301, 2 mi (3.2 km) downstream from Rocky Creek, 9 mi (14.5 km) east of Millhaven, and at mile 118.7 (191.0 km).
DRAINAGE AREA.--8,650 mi² (22,400 km²), approximately.

PERIOD OF RECORD.--February 1968 to May 1972, August 1974 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: January 1956 to September 1970.

REMARKS.--Flow regulated by Lake Burton, Mathis Reservoir, Hartwell and Clark Hill Lakes. (See "Lakes and Reservoirs in Savannah River Basin", stations 02178500, 02179500, 02187250, and 02194500.) Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Water-discharge records for the water years 1940-70 are published in reports of the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 30.0°C Aug. 25, 1959; minimum, 4.0°C Feb. 19, 20, 1958.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
04...	1445	8610	6.9	24.5	22.5	6.2
NOV						
02...	0730	7400	7.0	4.0	14.5	9.5
DEC						
06...	1530	20600	6.7	8.5	8.0	9.0
JAN						
10...	1515	14900	7.1	4.0	8.5	9.2
FEB						
08...	0730	9840	7.0	-6.0	5.0	12.6
MAR						
07...	1430	11500	7.0	14.0	11.0	9.0
APR						
04...	1315	24000	7.1	31.0	18.0	7.7
MAY						
02...	1520	10500	6.8	33.0	19.5	6.5
JUN						
13...	1650	7900	6.8	32.0	24.0	7.4
JUL						
12...	0615	7730	7.0	23.5	24.0	6.6
AUG						
08...	1610	8280	6.7	28.0	26.5	5.9

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBAL T UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINIT- Y AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT											
04...	71	20	10	.7	930	14	18	.33	.10	.10	5.0
NOV											
02...	68	35	8	.4	<30	14	17	.27	.10	.06	5.0
DEC											
06...	50	40	12	1.4	91	12	13	.11	.06	.05	8.0
JAN											
10...	75	20	9	1.0	73	24	26	.16	.11	.09	10
FEB											
08...	63	25	13	.8	91	15	17	.18	.08	.08	5.0
MAR											
07...	69	40	13	1.1	4300	16	18	--	--	--	--
APR											
04...	56	40	15	1.2	210	14	17	.10	<.02	.03	4.0
MAY											
02...	71	60	23	1.1	73	13	17	.32	.13	.11	4.0
JUN											
13...	69	45	17	.7	430	12	17	.39	.07	.11	2.0
JUL											
12...	72	30	18	.5	330	--	--	.38	.02	.09	3.0
AUG											
08...	80	25	12	1.0	930	--	--	.40	.07	.09	4.0

SAVANNAH RIVER BASIN

53

02197520 BRIER CREEK NEAR THOMSON, GA.

LOCATION.--Lat 33°22'06", long 82°28'06", McDuffie County, Hydrologic Unit 03060108, on downstream side of bridge on State Highway 17, 0.2 mi (0.3 km) upstream from Sweetwater Creek, and 6.9 mi (11.1 km) south of Thomson.

DRAINAGE AREA.--55 mi² (142 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 300 ft (101 m), from topographic map.

REMARKS.--Records good except for that below 5 cfs, which are poor.

AVERAGE DISCHARGE.--10 years, 49.9 ft³/s (1.41 m³/s), 12.32 in/yr (312.9 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,810 ft³/s (136 m³/s) Mar. 3, 1971, gage height, 18.09 ft (5.514 m), from floodmark; minimum daily, 0.24 ft³/s (0.007 m³/s) Sept. 24, 1968.

EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of 0.007 ft³/s (0.0002 m³/s) was measured on Oct. 14, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,000 ft³/s (28.3 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)
Nov. 29	0700	1360 38.5	11.39 3.471	Mar. 13	0900	1880 53.2	12.66 3.858
Dec. 12	1900	1870 53.0	12.63 3.849	Mar. 22	1000	*2620 74.2	14.39 4.386

Minimum daily discharge, 0.52 ft³/s (0.015 m³/s) July 18, 21, 22, 25.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	18	107	77	51	64	120	15	7.4	6.1	2.2	2.1
2	5.4	15	84	69	48	54	97	12	5.4	9.0	2.8	1.8
3	4.5	14	71	112	47	49	85	11	4.4	4.6	95	3.9
4	3.6	16	63	174	49	77	76	9.2	3.9	5.1	80	14
5	3.0	13	57	112	48	104	150	8.2	3.7	3.3	23	16
6	2.9	13	59	94	43	203	103	7.6	3.7	3.9	13	9.4
7	7.8	13	353	204	39	403	72	6.8	3.5	2.4	8.9	5.7
8	198	14	185	130	38	159	63	11	3.0	1.6	6.5	8.7
9	392	13	106	113	39	110	54	8.0	2.6	1.3	4.9	8.0
10	88	13	85	523	38	94	49	5.5	2.0	1.1	3.8	7.0
11	43	13	88	185	38	86	45	4.9	1.9	1.0	2.9	13
12	29	13	973	123	38	92	41	4.8	2.0	.90	2.4	5.5
13	23	14	691	106	44	1190	37	4.6	5.8	.80	2.1	6.7
14	20	15	203	154	41	249	33	4.1	3.9	.80	2.1	4.3
15	17	209	213	161	37	152	29	3.8	3.3	.80	2.0	4.9
16	15	150	184	110	34	120	26	3.7	3.0	.70	13	11
17	14	62	131	86	32	99	24	3.4	11	.60	11	18
18	14	49	105	80	32	89	23	3.0	6.1	.52	6.1	11
19	12	40	93	72	33	80	21	2.8	4.4	.60	8.1	6.5
20	34	35	95	67	33	158	19	2.5	3.0	.70	6.5	4.9
21	34	33	95	66	31	179	17	4.2	3.0	.52	4.2	3.8
22	20	28	75	63	29	1540	16	3.5	2.0	.52	3.1	3.1
23	16	25	73	60	30	284	24	3.9	2.2	1.1	2.4	2.6
24	15	24	69	73	114	169	44	5.3	3.0	.90	1.8	4.0
25	17	24	67	98	80	132	35	8.3	3.9	.52	10	3.7
26	48	28	526	71	52	112	31	27	3.3	.70	13	14
27	28	72	202	64	86	99	27	20	3.7	.80	7.0	7.6
28	19	169	136	67	117	91	23	13	2.0	.80	4.6	5.5
29	16	825	115	64	---	127	19	35	2.2	3.0	3.4	2.9
30	18	167	92	54	---	123	17	14	1.6	8.0	5.1	2.3
31	21	---	89	54	---	219	---	11	---	2.8	2.8	---
TOTAL	1185.6	2137	5485	3486	1341	6707	1420	277.1	110.9	65.48	353.7	211.9
MEAN	38.2	71.2	177	112	47.9	216	47.3	8.94	3.70	2.11	11.4	7.06
MAX	392	825	973	523	117	1540	150	35	11	9.0	95	18
MIN	2.9	13	57	54	29	49	16	2.5	1.6	.52	1.8	1.8
CFSM	.70	1.30	3.22	2.04	.87	3.93	.86	.16	.07	.04	.21	.13
IN.	.80	1.45	3.71	2.36	.91	4.54	.96	.19	.08	.04	.24	.14
CAL YR 1976	TOTAL	21100.30	MEAN 57.7	MAX 973	MIN 1.6	CFSM 1.05	IN 14.27					
WTR YR 1977	TOTAL	22780.68	MEAN 62.4	MAX 1540	MIN .52	CFSM 1.14	IN 15.41					

SAVANNAH RIVER BASIN

02197600 BRUSHY CREEK NEAR WRENS, GA.

LOCATION.--Lat 33°10'37", long 82°18'20", Jefferson County, Hydrologic Unit 03060201, at right bank on downstream side of bridge on State Highway 80, 5 mi (8.0 km) southeast of Wrens, and 5.5 mi (8.8 km) upstream from Little Brushy Creek.

DRAINAGE AREA.--28.0 mi² (72.5 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 282.56 ft (86.12 m) above mean sea level (levels by Georgia Department of Transportation).

REMARKS.--Records fair except those for periods of no gage-height record, Aug. 5 to Sept. 12, which are poor.

AVERAGE DISCHARGE.--19 years, 28.5 ft³/s (0.807 m³/s), 13.82 in/yr (351.0 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.03 ft (2.448 m) Mar. 3, 1971 (discharge not determined); minimum discharge, 5.5 ft³/s (0.156 m³/s) Aug. 29, 30, 1968.

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)
Mar. 22	1100	*356 10.08	6.33 1.929

Minimum daily discharge, 7.8 ft³/s (0.221 m³/s) July 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SE
1	14	16	41	30	26	33	62	18	13	14	11	1
2	12	15	30	29	25	24	42	18	12	16	27	1
3	11	15	25	47	25	22	36	17	10	17	139	2
4	11	16	23	58	24	42	33	16	8.9	14	112	1
5	10	16	22	41	24	54	53	16	8.7	13	46	2
6	10	15	25	35	23	72	42	16	9.4	12	30	1
7	11	15	94	58	23	133	32	15	14	11	23	1
8	54	15	55	45	22	72	29	17	11	11	20	1
9	119	14	37	39	22	55	27	15	10	10	17	1
10	53	15	31	94	22	50	25	15	9.5	9.6	15	1
11	28	14	33	69	22	42	23	14	9.2	9.3	13	1
12	21	14	123	47	20	38	22	14	12	9.9	12	1
13	18	14	151	43	19	184	21	13	12	12	11	1
14	17	15	81	56	19	142	21	13	17	13	10	1
15	16	34	72	52	19	66	20	13	32	12	10	1
16	14	29	54	40	18	54	18	12	17	11	23	1
17	17	22	45	36	18	46	18	12	21	11	17	2
18	17	21	40	34	18	37	17	12	18	10	14	1
19	15	17	35	32	18	38	18	12	15	8.5	19	1
20	37	16	33	31	19	52	17	11	13	8.2	17	1
21	28	16	32	31	18	67	17	13	12	7.8	14	1
22	18	16	30	30	18	286	16	13	10	8.1	12	1
23	16	16	30	29	18	181	36	12	12	9.0	11	1
24	15	15	27	33	46	79	38	14	13	8.6	11	1
25	18	15	28	38	35	61	24	16	12	8.2	15	1
26	28	18	87	31	25	49	19	15	11	8.9	21	1
27	19	26	54	30	35	41	18	15	12	9.5	15	1
28	16	40	47	32	40	41	17	15	11	9.5	11	1
29	16	92	40	30	---	39	18	13	11	12	12	1
30	16	55	32	27	---	44	18	12	12	16	13	1
31	17	---	31	27	---	84	---	16	---	12	11	1
TOTAL	712	657	1488	1254	661	2228	797	443	388.7	342.1	732	44
MEAN	23.0	21.9	48.0	40.5	23.6	71.9	26.6	14.3	13.0	11.0	23.6	14.3
MAX	119	92	151	94	46	286	62	18	32	17	139	143
MIN	10	14	22	27	18	22	16	11	8.7	7.8	10	7.8
CFSM	.82	.78	1.71	1.45	.84	2.57	.95	.51	.46	.39	.84	.51
IN.	.95	.87	1.98	1.67	.88	2.96	1.06	.59	.52	.45	.97	.59
CAL YR 1976	TOTAL	8559.4	MEAN 23.4	MAX 190	MIN 7.6	CFSM .84	IN 11.37					
WTR YR 1977	TOTAL	10144.8	MEAN 27.8	MAX 286	MIN 7.8	CFSM .99	IN 13.48					

SAVANNAH RIVER BASIN

55

02197830 BRIER CREEK NEAR WAYNESBORO, GA.

LOCATION.--Lat 33°07'05", long 81°57'50", Burke County, Hydrologic Unit 03060108, near left bank on downstream end of pier of bridge on State Highway 56, 3.8 mi (6.1 km) northeast of Waynesboro.

DRAINAGE AREA.--473 mi² (1,225 km²).

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

GAGE.--Water-stage recorder. Datum of gage is 173.78 ft (52.97 m) above mean sea level.

REMARKS.--Records good except for those periods of no gage-height record, Jan. 19 to Feb. 15, June 12-21, and July 9 to Aug. 3, which are poor.

AVERAGE DISCHARGE.--8 years, 520 ft³/s (14.7 m³/s), 14.93 in/yr (379.2 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,800 ft³/s (306 m³/s) Mar. 15, 1971, gage height, 12.28 ft (3.743 m); minimum, 95 ft³/s (2.69 m³/s) Oct. 7, 8, 1970, gage height, 2.28 ft (0.695 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft³/s (53.8 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)	
Oct. 12	0900	1900	53.8	7.66	2.335	Mar. 16	0600	3650	103	8.96	2.731
Dec. 2	2000	2210	62.6	8.08	2.463	Mar. 24	2300	*4230	120	9.31	2.838
Dec. 15	2000	3020	85.5	8.63	2.630						

Minimum daily discharge, 100 ft³/s (2.83 m³/s) July 18-22, 26, 27.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	402	429	793	854	720	847	965	355	317	155	170	198
2	346	382	1750	728	680	722	1020	343	273	199	250	184
3	292	374	1750	704	660	673	1120	335	236	221	320	173
4	268	383	1060	770	700	793	1080	329	210	238	369	176
5	241	373	750	788	670	781	882	329	188	288	538	213
6	218	350	617	818	610	774	768	315	173	272	848	220
7	214	332	714	976	570	1070	715	284	190	213	824	216
8	311	321	748	1020	540	1160	713	258	188	180	588	248
9	479	314	787	902	530	1280	754	252	192	150	407	278
10	462	315	1090	988	510	1650	719	243	174	130	265	270
11	941	310	1480	1160	500	1410	603	237	160	120	206	238
12	1830	312	1380	1090	520	1020	547	233	150	110	178	218
13	1450	313	1280	1500	550	1020	513	226	160	110	182	215
14	884	310	1250	1650	520	1210	487	216	170	110	181	222
15	556	350	2410	1200	470	1800	462	211	165	110	162	228
16	430	415	2550	973	466	3320	453	205	160	110	187	227
17	427	431	1670	902	464	1980	439	200	170	110	260	223
18	422	485	1280	920	462	1290	423	194	180	110	302	240
19	376	620	1190	1000	453	1000	402	188	180	100	346	264
20	455	830	1040	940	446	920	388	183	175	100	392	292
21	512	645	878	880	440	921	373	186	170	100	380	291
22	485	505	767	840	422	1430	361	214	158	100	335	256
23	493	444	698	810	422	1820	377	218	146	110	274	222
24	493	414	664	820	501	3170	439	233	138	130	229	206
25	493	399	657	980	519	3530	448	265	133	110	211	192
26	479	395	798	900	528	2000	486	279	134	100	337	215
27	433	450	825	800	614	1360	488	301	153	100	341	265
28	422	488	874	880	788	1100	487	300	136	110	303	287
29	435	601	1250	840	---	935	429	305	148	150	270	343
30	467	643	1580	800	---	861	370	330	170	200	241	344
31	481	---	1110	760	---	949	---	361	---	220	218	---
TOTAL	16197	12933	35690	29193	15275	42796	17711	8128	5297	4566	10114	7164
MEAN	522	431	1151	942	546	1381	590	262	177	147	326	239
MAX	1830	830	2550	1650	788	3530	1120	361	317	288	848	344
MIN	214	310	617	704	422	673	361	183	133	100	162	173
CFSM	1.10	.91	2.43	1.99	1.15	2.92	1.25	.55	.37	.31	.69	.51
IN.	1.27	1.02	2.81	2.30	1.20	3.37	1.39	.64	.42	.36	.80	.56
CAL YR 1976 TOTAL	191220			MEAN 522	MAX 2550	MIN 152	CFSM 1.10	IN 15.04				
WTR YR 1977 TOTAL	205064			MEAN 562	MAX 3530	MIN 100	CFSM 1.19	IN 16.13				

SAVANNAH RIVER BASIN

02198000 BRIER CREEK AT MILLHAVEN, GA.

LOCATION.--Lat 32°56'00", long 81°39'05", Screven County, Hydrologic Unit 03060108, near right bank on downstream side of pier of highway bridge at Millhaven, 8.5 mi (13.7 km) upstream from Beaver Dam Creek.
DRAINAGE AREA.--646 mi² (1,670 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1936 to current year. Monthly discharges only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 1383: Drainage area. WSP 1503: 1956.

GAGE.--Water-stage recorder. Datum of gage is 95.88 ft (29.22 m) above mean sea level. Prior to June 7, 1950, nonrecording gage at site 200 ft (61 m) downstream at same datum. June 7, 1950 to Apr. 30, 1951, nonrecording gage at present site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--41 years, 671 ft³/s (19.0 m³/s), 14.11 in/yr (358.4 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,400 ft³/s (719 m³/s) Aug. 16, 1940, gage height, 17.4 ft (5.304 m), from graph based on gage readings; minimum daily, 64 ft³/s (1.81 m³/s) Sept. 5-11, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1797, 25.1 ft (7.650 m) in September or October 1929, from information by Georgia Department of Transportation, discharge, 64,000 ft³/s (1,810 m³/s), by slope-conveyance study.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (56.6 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. 5	0900	2050 58.1	8.31 2.533	Mar. 18	1000	3160 89.5	9.87 3.008
Dec. 13	1800	2160 61.2	8.48 2.585	Mar. 22	2100	2130 60.3	8.28 2.524
Dec. 17	2400	2790 79.0	9.48 2.890	Mar. 26	2200	*3990 113	10.72 3.267

Minimum discharge, 125 ft³/s (3.54 m³/s) July 22.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	521	553	900	1610	941	900	1300	564	355	222	184	305
2	555	580	928	1430	909	963	1280	496	360	227	206	272
3	571	607	957	1240	873	1020	1270	443	344	207	292	248
4	467	572	1340	1240	860	1070	1250	413	304	227	356	247
5	375	510	1980	1130	846	1180	1320	390	269	242	396	312
6	324	449	1590	1070	804	1210	1380	373	240	260	398	362
7	309	464	1340	1110	759	1470	1250	362	222	276	416	324
8	307	457	1280	1150	729	1480	1080	353	218	288	519	293
9	418	475	1150	1180	716	1490	977	334	224	260	762	305
10	464	414	1110	1310	704	1490	932	303	216	215	863	315
11	545	398	1100	1270	691	1500	922	288	212	185	691	313
12	598	393	1390	1200	683	1770	940	279	204	167	458	310
13	585	393	2050	1290	674	1810	890	273	195	154	295	289
14	1240	349	2030	1350	662	1600	786	269	198	160	259	265
15	1680	406	1800	1600	657	1400	704	262	205	159	264	251
16	1340	445	1630	1880	652	1420	653	250	212	156	238	252
17	1050	503	2280	1570	640	1960	609	242	229	155	216	260
18	880	564	2640	1310	633	3040	572	237	237	159	269	271
19	677	500	2020	1150	631	2280	551	235	246	150	536	285
20	813	594	1610	1120	628	1680	528	227	240	140	512	285
21	1100	678	1430	1110	619	1470	503	219	223	133	456	283
22	964	790	1340	1120	607	1920	478	217	210	132	427	295
23	848	972	1200	1010	598	2020	466	226	196	136	425	303
24	756	885	1060	953	680	2090	487	251	181	133	400	292
25	682	715	981	940	771	2230	532	272	169	134	359	267
26	733	629	1100	930	775	3460	548	295	188	135	429	245
27	745	747	1140	928	827	3500	538	311	225	142	626	231
28	705	899	1120	970	862	2360	546	322	207	144	524	237
29	660	971	1130	960	---	1730	572	334	191	145	440	264
30	593	943	1090	939	---	1450	580	336	185	156	389	283
31	553	---	1180	935	---	1350	---	349	---	172	346	---
TOTAL	22058	17965	43896	37005	20431	54313	24444	9725	6905	5571	12951	8464
MEAN	712	599	1416	1194	730	1752	815	314	230	180	418	282
MAX	1680	972	2640	1880	941	3500	1380	564	360	288	863	362
MTN	307	389	900	928	598	900	466	217	169	132	184	231
CFSM	1.10	.93	2.19	1.85	1.13	2.71	1.26	.49	.36	.28	.65	.44
IN,	1.27	1.03	2.53	2.13	1.18	3.13	1.41	.56	.40	.32	.75	.49

CAL YR 1976 TOTAL 241808 MEAN 715 MAX 2640 MIN 186 CFSM 1.11 IN 15.08
WTR YR 1977 TOTAL 243728 MEAN 723 MAX 3500 MIN 132 CFSM 1.12 IN 15.19

02198000 BRIER CREEK AT MILLHAVEN, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV						
01...	1700	556	7.0	13.5	11.0	9.6
FEB						
07...	1630	752	7.0	5.0	3.0	13.1
MAY						
02...	1440	488	6.8	30.5	20.5	6.5
AUG						
08...	1510	532	5.9	34.0	25.0	6.3

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)
NOV					
01...	57	60	3	1.1	230
FEB					
07...	50	20	3	.7	63
MAY					
02...	70	80	13	--	73
AUG					
08...	147	25	7	1.3	160

DATE	HARD- NESS (CA, MG) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV						
01...	17	12	<.02	<.02	.02	6.0
FEB						
07...	13	11	<.02	<.02	.02	3.0
MAY						
02...	17	17	.18	.03	.09	7.0
AUG						
08...	--	--	.04	<.02	.04	7.0

SAVANNAH RIVER BASIN

02198500 SAVANNAH RIVER NEAR CLYO, GA.
(National stream-quality accounting network station)
(Radiochemical program station)

LOCATION.--Lat 32°31'30", long 81°15'45", Effingham County, Ga.-Jasper County, S.C., Hydrologic Unit 03060109, on downstream side of center pier of drawspan of bridge on Seaboard Coast Line Railroad, 3.0 m (4.8 km) north of Clio, and at mile 60.9 (98.0 km).

DRAINAGE AREA.--9,850 mi² (25,510 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1929 to September 1933, October 1937 to current year. Monthly discharge only for some periods, published in WSP 1303. Gage-height records collected at same site 1921-43 by National Weather Service (unpublished prior to 1933).

REVISED RECORDS.--WSP 1112: 1940.

GAGE.--Water-stage recorder. Datum of gage is 13.41 ft (4.09 m) above mean sea level. Prior to Jan. 31, 1933, nonrecording gage at same site and at datum 4.00 ft (1.22 m) higher. Jan. 31, 1933 to June 12, 1945, nonrecording gage at same site and datum.

REMARKS.--Records good except those for period of no gage-height record, May 29 to June 28, which are fair. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, and Clark Hill Reservoir. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, 02187250, and 02194500).

AVERAGE DISCHARGE.--44 years, 12,100 ft³/s (343 m³/s), 16.69 in/yr (423.9 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 270,000 ft³/s (7,650 m³/s) Oct. 6, 1929, gage height, 29.7 ft (9.05 m), present datum (from information by Corps of Engineers), from rating curve extended above 120,000 ft³/s (3,400 m³/s); minimum daily, 1,950 ft³/s (55.2 m³/s) Sept. 27, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33,400 ft³/s (946 m³/s) Dec. 22, gage height, 15.85 ft (4.831 m); minimum daily, 6,980 ft³/s (198 m³/s) July 29.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9880	10300	15600	23700	14900	10900	24500	15600	8600	8330	7610	8030
2	9940	10100	15900	22800	13400	11100	23600	14100	7820	8460	7820	7900
3	9840	9670	16200	22300	12800	11400	22700	12700	8480	8770	7800	7810
4	9640	9200	16700	23200	13000	11700	22200	11600	8660	8930	7880	7730
5	9370	8980	17300	23600	13400	12100	22100	11400	8540	8220	8480	7700
6	8900	9010	18000	23100	13700	12300	22700	11800	8360	7670	9330	7730
7	8410	9250	19000	22200	13900	13100	24300	12000	8180	7420	9600	7810
8	8390	9480	20400	21200	13400	13900	26400	12000	7760	7820	9340	7680
9	8790	9370	21700	20400	12000	14700	27700	12000	8240	8110	8800	7640
10	9570	8770	22600	19900	11700	15300	28000	11200	8840	8020	8090	7820
11	11100	8670	23000	19600	12000	15900	28200	9950	9440	7810	7680	7910
12	12300	8900	23300	19100	12100	16300	29300	9260	9080	7630	7570	7900
13	13200	9160	23700	18500	11700	16200	31100	9230	7940	7320	7590	7820
14	13900	9340	24300	18100	11100	15500	32200	9620	7880	7060	7630	7590
15	14600	9280	25700	18000	10100	15200	32000	9660	7640	7090	7630	7430
16	15100	9260	27200	18200	9780	15400	31100	9340	7280	7310	7760	7400
17	14800	9230	28500	18800	10300	15900	30100	8860	7340	7430	7700	7540
18	13500	10300	29200	19800	10200	16500	29400	8380	7640	7440	7610	7650
19	12400	12000	30300	20700	10100	17200	29100	8220	7760	7390	7810	7820
20	11600	12900	31900	21300	10200	18000	28900	8290	8120	7150	8120	7880
21	10900	12700	33100	21100	10200	18700	28500	8290	8120	7050	8360	7630
22	11100	11600	33100	20400	9830	18600	27400	8270	7880	7420	8680	7390
23	11800	10700	30500	19800	9350	17600	26000	8240	7700	7810	8640	7360
24	12200	10400	29300	19300	9450	16900	24600	8080	7640	8050	8230	7310
25	12200	11100	28000	19200	9870	17000	23300	7970	7820	8060	7860	7140
26	11900	12300	27100	19100	10400	17600	22500	7930	7820	7810	7750	7020
27	11100	13400	26100	18900	10800	18600	21800	8320	7820	7460	7960	7240
28	10400	14300	25600	18600	11000	19800	20900	8820	7640	7050	8470	7430
29	10200	15000	25500	18000	---	21400	19400	8840	7490	6980	8850	7480
30	10200	15400	25200	17100	---	23200	17500	9080	7750	7180	8770	7790
31	10300	---	24700	16100	---	24500	---	9020	---	7430	8440	---
TOTAL	347530	320020	758700	622100	320680	502500	777500	308070	241280	237680	253860	228580
MFAN	11210	10670	24470	20070	11450	16210	25920	9938	8043	7667	8189	7619
MAX	15100	15400	33100	23700	14900	24500	32200	15600	9440	8930	9600	8030
MIN	8390	8670	15600	16100	9350	10900	17500	7930	7280	6980	7570	7020

CAL YR 1976 TOTAL 5372370 MEAN 14680 MAX 33400 MIN 7660 MEAN† 14756 CFSM† 1.50 IN† 20.39
WTR YR 1977 TOTAL 4918500 MEAN 13480 MAX 33100 MIN 6980 MEAN† 13293 CFSM† 1.35 IN† 18.32

* Adjusted for change in contents in Lake Burton, Mathis Reservoir, Hartwell Lake, and Clark Hill Reservoir.

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1938 to April 1939, October 1964 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1974 to July 1977.

WATER TEMPERATURES: May 1938 to April 1939, January 1974 to July 1977.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 110 micromhos June 14, 1977; minimum daily, 42 micromhos July 5, 1974.

WATER TEMPERATURES: Maximum daily, 27.0°C Aug. 23, 1975, July 9, 13, 1977; minimum daily recorded, 4.0°C Jan. 22-24, 26, 30, Feb. 1.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 110 micromhos July 14; minimum daily, 49 micromhos Dec. 20.

WATER TEMPERATURES: Maximum daily, 27.0°C July 9, 13; minimum daily recorded, 4.0°C Jan. 22-24, 26, 30, Feb. 1.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
06...	1225	9280	6.7	--	23.0	7.7
NOV						
02...	0935	10100	6.6	11.0	14.0	10.0
04...	1430	9260	6.6	--	15.0	8.8
DEC						
02...	1330	15600	6.4	--	10.0	9.6
JAN						
12...	1330	19200	6.4	--	6.5	10.2
FEB						
08...	1045	13500	7.3	6.0	4.5	11.6
10...	1345	11800	6.8	--	7.0	10.2
MAR						
09...	1230	14600	6.5	--	12.0	10.0
APR						
07...	1415	23800	6.4	--	16.4	8.6
MAY						
02...	1700	13800	6.8	27.5	21.0	6.7
05...	1330	11500	6.9	--	21.5	7.7
JUN						
02...	1315	8540	6.8	--	24.5	6.9
13...	1515	7700	--	--	--	--
JUL						
11...	1515	7890	6.8	39.5	26.5	6.5
13...	1200	7676	6.9	--	27.5	6.7
AUG						
09...	0830	9000	6.9	28.0	26.0	7.2
10...	1305	8144	6.8	--	28.1	6.4
SEP						
14...	1230	7556	6.8	--	26.0	6.9

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (7UM-MF) (COL./100 ML)	FECAL STREPTOCOCCI KF AGAR (COL. PER 100 ML)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG/L)
OCT 06...	76	--	--	--	--	118	31	--	--	--	--
NOV 02...	71	40	10	1.3	30	--	--	16	--	--	--
04...	77	--	--	--	--	837	53	--	--	--	--
DEC 02...	64	--	25	--	--	200	233	14	0	3.3	1.3
1A...	--	--	--	--	--	--	--	--	--	--	--
JAN 12...	58	--	--	--	--	150	33	--	--	--	--
FEB 0A...	63	30	13	.8	230	--	--	15	--	--	--
10...	70	--	--	--	--	818	828	--	--	--	--
MAR 0A...	66	--	15	--	--	790	97	18	0	5.0	1.3
APR 07...	54	--	--	--	--	73	55	--	--	--	--
MAY 02...	74	60	23	--	36	--	--	14	--	--	--
05...	70	--	--	--	--	818	48	--	--	--	--
JUN 02...	77	--	10	--	--	42	88	16	0	4.6	1.1
JUL 11...	74	35	14	1.4	<35	--	--	--	--	--	--
13...	69	--	--	--	--	66	50	--	--	--	--
AUG 09...	87	40	14	--	--	--	--	--	--	--	--
10...	83	--	--	--	--	107	830	--	--	--	--
SEP 14...	71	--	10	--	--	840	72	16	0	4.3	1.2

DATE	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT 06...	--	--	--	--	--	--	--	--	--	--	--
NOV 02...	--	--	--	--	17	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
DEC 02...	5.4	1.5	22	0	18	4.7	4.1	.1	10	57	41
1A...	--	--	--	--	--	--	--	--	--	--	--
JAN 12...	--	--	--	--	--	--	--	--	--	--	--
FEB 0A...	--	--	--	--	17	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
MAR 0A...	6.7	1.3	25	0	21	5.4	5.7	.0	7.5	53	45
APR 07...	--	--	--	--	--	--	--	--	--	--	--
MAY 02...	--	--	--	--	17	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
JUN 02...	7.9	1.5	25	0	21	7.0	6.2	.1	9.4	66	50
JUL 11...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
AUG 09...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
SEP 14...	10	2.1	27	--	22	5.0	5.0	.1	9.9	44	51

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT											
06...	.34	--	.05	.39	1.7	.07	--	0	12	301	100
NOV											
02...	.31	.07	--	--	--	.07	6.0	--	--	--	--
04...	.30	--	.28	.58	2.6	.06	--	1600	16	400	100
DEC											
02...	.15	--	.33	.48	2.1	.07	--	37	32	1350	100
18...	--	--	--	--	--	--	--	--	23	--	100
JAN											
12...	.19	--	.26	.45	2.0	.03	--	73	7	363	100
FEB											
08...	.22	.08	--	--	--	.05	4.0	--	--	--	--
10...	.25	--	.42	.67	3.0	.09	--	--	1	57	100
MAR											
09...	.21	--	.34	.55	2.4	.09	5.0	640	15	591	100
APR											
07...	.12	--	.45	.57	2.5	.06	--	0	10	643	100
MAY											
02...	.37	.07	--	--	--	.11	3.0	--	--	--	--
05...	.42	--	.25	.67	3.0	.11	--	300	24	745	100
JUN											
02...	.46	--	.24	.70	3.1	.10	4.8	950	21	484	100
JUL											
11...	.38	.02	--	--	--	.08	2.0	--	--	--	--
13...	.42	--	.22	.64	2.8	.09	--	--	16	332	100
AUG											
09...	.38	.03	--	--	--	.10	5.0	--	--	--	--
10...	.42	--	.33	.75	3.3	.09	--	270	20	440	100
SEP											
14...	.38	--	.09	.47	2.1	.12	6.1	770	16	326	100

DATE	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
DEC											
02...	0	0	1	2	<10	0	0	0	3	2	1800
MAR											
09...	0	0	2	1	40	10	0	0	0	4	1300
JUN											
02...	2	2	0	0	20	8	0	0	2	0	1300
AUG											
09...	--	--	--	--	--	--	--	--	--	--	840
SEP											
14...	0	0	0	0	<10	4	0	0	0	0	1000

DATE	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
DEC											
02...	110	15	11	110	20	.2	.2	0	0	0	10
MAR											
09...	200	11	9	30	10	.0	.0	0	0	10	10
JUN											
02...	110	14	13	70	10	.0	.0	0	0	10	20
AUG											
09...	--	--	--	<50	--	--	--	--	--	--	--
SEP											
14...	150	16	10	60	10	<.5	<.5	0	0	10	10

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

[illegible][illegible][illegible]

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	MALATHION IN BOTTOM MATERIAL (UG/KG)	METHOXYCHLOR IN ROT- TOM MATERIAL (UG/KG)	METHYL PARATHION IN BOT- TOM MATERIAL (UG/KG)	METHYL TRI- THION IN BOT- TOM MATERIAL (UG/KG)	PARATHION IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)	TRI- THION IN BOTTOM MATERIAL (UG/KG)	2,4-D IN BOTTOM MATERIAL (UG/KG)	2,4,5-T IN BOTTOM MATERIAL (UG/KG)	SILVEX IN BOTTOM MATERIAL (UG/KG)	ATRAZINE IN BOTTOM MATERIAL (UG/ KG DRY SOLIDS)	SIMAZINE IN BOTTOM MATERIAL (UG/ KG DRY SOLIDS)
NOV 04...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAY 05...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DATE	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDEED GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDEED GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS AS SR90 /Y90 (PC/L)	SUS- PENDEED GROSS BETA AS AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	DIS- SOLVED NATURAL URANIUM (U) (UG/L)		
DEC 02...	48	45	<.5	3.7	2.1	1.9	1.7	1.5	.02	.5		

SAVANNAH RIVER BASIN

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	72	69	55	65	63	67	65	73	72		
2	79	70	62	54	67	63	73	61	73	70		
3	79	67	58	54	67	61	69	67	77	70		
4	79	67	58	55	65	60	61	72	76	68		
5	79	79	50	58	62	66	61	72	74	68		
6	90	79	58	57	70	70	66	65	74	71		
7	81	75	56	54	63	65	67	65	72	71		
8	87	75	56	56	63	65	53	65	75	75		
9	87	74	60	56	67	64	56	65	76	72		
10	87	75	61	61	69	73	54	76	66	69		
11	67	76	53	64	63	73	54	72	75	69		
12	67	73	53	65	62	73	51	75	70	69		
13	60	76	54	---	62	75	51	80	74	70		
14	61	74	53	---	63	79	51	69	110	---		
15	63	72	54	---	66	74	54	72	70	---		
16	61	74	54	---	69	71	53	70	74	---		
17	61	72	54	---	69	59	53	70	80	---		
18	62	71	54	---	60	63	53	91	78	---		
19	60	69	50	---	66	65	57	70	74	---		
20	70	74	49	60	66	65	55	73	74	---		
21	69	61	53	58	68	65	59	70	70	---		
22	67	74	51	60	64	69	67	70	75	---		
23	71	75	66	58	64	75	61	66	70	---		
24	75	70	52	58	64	66	59	69	75	---		
25	74	70	60	58	64	61	60	74	77	---		
26	75	65	55	62	62	64	62	71	70	---		
27	78	57	53	62	63	59	62	74	66	---		
28	71	59	53	62	63	61	63	70	70	---		
29	67	64	53	62	---	61	66	70	70	---		
30	69	61	54	63	---	61	67	85	74	---		
31	72	---	54	63	---	65	---	71	---	---		
MEAN	72	71	55	59	65	66	60	71	74	70		

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.0	16.0	10.0	7.0	4.0	9.0	17.0	18.0	23.0	25.0		
2	21.0	16.0	10.0	7.0	5.0	10.0	18.0	19.0	23.0	25.0		
3	22.0	14.0	10.0	8.0	6.0	10.0	18.0	19.0	23.0	26.0		
4	21.0	15.0	9.0	7.0	6.0	14.0	18.0	19.0	25.0	25.0		
5	20.0	14.0	9.0	9.0	6.0	12.0	17.0	20.0	24.0	25.0		
6	20.0	13.0	9.0	8.0	5.0	12.0	15.0	21.0	24.0	25.0		
7	21.0	13.0	10.0	9.0	5.0	12.0	14.0	21.0	23.0	26.0		
8	21.0	13.0	9.0	7.0	5.0	11.0	15.0	21.0	22.0	26.0		
9	22.0	12.0	8.0	8.0	5.0	11.0	15.0	21.0	23.0	27.0		
10	21.0	13.0	9.0	10.0	5.0	12.0	15.0	19.0	21.0	26.0		
11	21.0	14.0	10.0	6.0	6.0	13.0	15.0	19.0	22.0	26.0		
12	20.0	15.0	10.0	6.0	6.0	14.0	16.0	19.0	23.0	26.0		
13	19.0	13.0	11.0	---	8.0	15.0	16.0	20.0	24.0	27.0		
14	20.0	13.0	9.0	---	7.0	14.0	15.0	20.0	24.0	---		
15	20.0	13.0	11.0	---	8.0	14.0	16.0	20.0	24.0	---		
16	20.0	13.0	11.0	---	7.0	16.0	17.0	20.0	25.0	---		
17	19.0	13.0	9.0	---	7.0	15.0	18.0	21.0	24.0	---		
18	16.0	11.0	10.0	---	7.0	15.0	18.0	21.0	25.0	---		
19	17.0	11.0	10.0	---	10.0	17.0	19.0	21.0	25.0	---		
20	19.0	12.0	10.0	5.0	10.0	13.0	19.0	23.0	25.0	---		
21	15.0	12.0	8.0	5.0	7.0	17.0	19.0	23.0	25.0	---		
22	15.0	10.0	6.0	4.0	7.0	16.0	19.0	22.0	25.0	---		
23	15.0	9.0	8.0	4.0	8.0	12.0	19.0	22.0	25.0	---		
24	16.0	10.0	7.0	4.0	11.0	12.0	19.0	22.0	25.0	---		
25	18.0	10.0	7.0	5.0	10.0	13.0	19.0	22.0	25.0	---		
26	18.0	11.0	8.0	4.0	11.0	14.0	17.0	22.0	25.0	---		
27	15.0	13.0	8.0	5.0	13.0	14.0	15.0	22.0	25.0	---		
28	14.0	13.0	9.0	7.0	10.0	15.0	15.0	22.0	25.0	---		
29	14.0	15.0	8.0	5.0	---	16.0	17.0	22.0	25.0	---		
30	14.0	10.0	6.0	4.0	---	17.0	18.0	22.0	25.0	---		
31	15.0	---	10.0	6.0	---	18.0	---	23.0	---	---		
MEAN	18.5	12.5	9.0	6.5	7.5	13.5	17.0	21.0	24.0	26.0		

LAKES AND RESERVOIRS IN SAVANNAH RIVER BASIN

02178500 LAKE BURTON.--Lat 34°47'37", long 83°32'26", Rabun County, Hydrologic Unit 03060102, on Tallulah River, 5.5 mi (8.8 km) downstream from bridge on U.S. Highway 76, 10 mi (16 km) southwest of Clayton, Ga. DRAINAGE AREA, 115 mi² (298 km²). PERIOD OF RECORD, October 1929 to current year. Datum of gage is at mean sea level (levels by Georgia Power Co.). Lake is formed by concrete gravity dam. Spillway, crest elevation, 1,860.0 ft (566.93 m) is equipped with eight gates 22 ft (6.71 m) wide by 6.6 ft (2.01 m) high. Dam completed in 1919. Total capacity at elevation 1,866.6 ft (568.94 m), top of gates, is 108,000 acre-ft (133 hm³), of which 106,000 acre-ft (131 hm³) is usable storage. Lake is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Co.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet) †	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	1861.9	94900	-	-
Oct. 31.....	1859.6	89000	-5900	-96
Nov. 30.....	1855.9	80000	-9000	-151
Dec. 31.....	1850.1	67200	-12800	-208
CAL YR 1976	-	-	-400	-1
Jan. 31.....	1846.0	59200	-8000	-130
Feb. 28.....	1849.5	66000	+6800	+122
Mar. 31.....	1864.9	103000	+37000	+602
Apr. 30.....	1864.9	103000	0	0
May 31.....	1865.7	105000	+2000	+33
June 30.....	1864.2	101200	-3800	-64
July 31.....	1862.8	97300	-3900	-63
Aug. 31.....	1861.8	94700	-2600	-42
Sept. 30.....	1860.2	90500	-4200	-71
WTR YR 1977	-	-	-4400	-6

† Elevation at 0700 on day following that shown in first column.

02179500 MATHIS RESERVOIR.--Lat 34°47'03", long 83°24'57", Rabun County, Hydrologic Unit 03060102, on Tallulah River, 1 mi (1.6 km) upstream from bridge on U.S. Highway 23, 1.8 mi (2.9 km) south of Lakemont, Ga. DRAINAGE AREA, 151 mi² (391 km²). PERIOD OF RECORD, October 1929 to current year. Datum of gage is at mean sea level (levels by Georgia Power Co.). Reservoir is formed by concrete slab and buttress dam. Spillway, crest elevation, 1,682.75 ft (512.90 m) is equipped with 16 gates 15.8 ft (4.82 m) wide by 6.85 ft (2.09 m) high. Dam completed in 1915. Total capacity at elevation 1,689.6 ft (514.99 m), top of gates, is 31,200 acre-ft (38.5 hm³), of which 23,000 acre-ft (28.4 hm³) is usable storage. Reservoir is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Co.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet) †	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	1688.7	30500	-	-
Oct. 31.....	1688.1	30000	-500	-8
Nov. 30.....	1679.6	23900	-6100	-103
Dec. 31.....	1688.8	30500	+6600	+107
CAL YR 1976	-	-	+500	+1
Jan. 31.....	1687.6	29600	-900	-15
Feb. 28.....	1687.6	29600	0	0
Mar. 31.....	1687.6	29600	0	0
Apr. 30.....	1687.1	29200	-400	-7
May 31.....	1687.8	29800	+600	+10
June 30.....	1688.9	30600	+800	+13
July 31.....	1687.9	29800	-800	-13
Aug. 31.....	1687.2	29300	-500	-8
Sept. 30.....	1687.8	29800	+500	+8
WTR YR 1977	-	-	-700	-1

† Elevation at 0700 on day following that shown in first column.

SAVANNAH RIVER BASIN

LAKES AND RESERVOIRS IN SAVANNAH RIVER BASIN--Continued

02187250 HARTWELL LAKE.--Lat 34°21'25", long 82°49'20", Hart County, Ga.-Anderson County, S.C., Hydrologic Unit 03060103, in right spillway elevator tower of dam on Savannah River, 0.9 mi (1.4 km) upstream from Big Genorostee Creek, 6.4 mi (10.3 km) east of Hartwell, Ga., and at mile 305.0 (490.7 km). DRAINAGE AREA, 2,088 mi² (5,408 km²). PERIOD OF RECORD, October 1959 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

Lake is formed by concrete dam with earth embankments at each end; storage began in February 1961, dam completed in 1961. Usable capacity, 1,708,600 acre-ft (2,110 hm³) between elevations 625.0 ft (190.50 m), normal limit of drawdown, and 665.0 ft (202.69 m), top of gates. Dead storage below 625.0 ft (190.50 m), 1,134,100 acre-ft (1,400 hm³). Elevation of spillway crest, 630.0 ft (192.02 m). Water is used for flood control, generation of power, and navigation. Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 2,871,000 acre-ft (3,540 hm³) Apr. 8, 1964, elevation, 665.47 ft (202.835 m); minimum, after first filling, 1,182,000 acre-ft (1,460 hm³) Oct. 16, 1961, elevation, 626.70 ft (191.018 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 2,734,100 acre-ft (3,371 hm³) Mar. 31, elevation, 663.20 ft (202.143 m); minimum, 2,245,500 acre-ft (2,769 hm³) Sept. 7, elevation, 654.27 ft (199.421 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	656.26	2347400	-	-
Oct. 31.....	659.02	2495300	+147900	+2405
Nov. 30.....	657.14	2393800	-101500	-1706
Dec. 31.....	657.09	2391100	-2700	-44
CAL YR 1976	-	-	+76300	+105
Jan. 31.....	657.13	2393200	+2100	+34
Feb. 28.....	657.36	2405500	+12300	+221
Mar. 31.....	663.13	2730000	+324500	+5277
Apr. 30.....	660.36	2569900	-160100	-2691
May 31.....	660.49	2577300	+7400	+124
June 30.....	659.95	2546800	-30500	-513
July 31.....	658.08	2444100	-102700	-1670
Aug. 31.....	654.65	2264700	-179400	-2918
Sept. 30.....	656.00	2333800	+69100	+1161
WTR YR 1977	-	-	-13600	-19

02194500 CLARK HILL RESERVOIR.--Lat 33°39'40", long 82°12'00", Columbia County, Ga.-McCormick County, S.C., Hydrologic Unit 03060103, in left spillway elevator tower of dam on Savannah River, 1.6 mi (2.6 km) west of Clarks Hill, 3.7 mi (6.0 km) upstream from Kiokee Creek, and at mile 237.7 (382.5 km). DRAINAGE AREA, 6,150 mi² (15,900 km²), approximately. PERIOD OF RECORD, October 1951 to current year. REVISED RECORDS, WSP 1703: 1953. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1952, nonrecording gage at same site and datum.

Lake is formed by concrete dam with earth dam at each end; storage began in December 1951, dam completed in 1952. Usable capacity, 1,730,000 acre-ft (2,130 hm³) between elevations 305.0 ft (92.96 m), normal limit of drawdown, and 335.0 ft (102.11 m), top of spillway gates. Dead storage below 305.0 ft (92.96 m), 1,170,000 acre-ft (1,440 hm³). Elevation of spillway crest, 300.0 ft (91.44 m). Water is used for flood control, generation of power, and navigation. Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 3,037,600 acre-ft (3,750 hm³) Apr. 9, 1964, elevation, 336.72 ft (102.632 m); minimum, 897,900 acre-ft (1,110 hm³) Feb. 1, 1956, elevation, 296.48 ft (90.367 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 2,722,900 acre-ft (3,357 hm³) Apr. 6, elevation, 332.73 ft (101.416 m); minimum, 2,202,000 acre-ft (2,715 hm³) Sept. 13, elevation, 325.60 ft (99.243 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	327.65	2345500	-	-
Oct. 31.....	327.73	2351100	+5600	+91
Nov. 30.....	328.80	2426000	+74900	+1259
Dec. 31.....	326.53	2267100	-158900	-2584
CAL YR 1976	-	-	-21000	-29
Jan. 31.....	328.23	2386100	+119000	+1935
Feb. 28.....	327.12	2308400	-77700	-1399
Mar. 31.....	331.47	2624700	+316300	+5144
Apr. 30.....	330.67	2562300	-62400	-1049
May 31.....	329.56	2479200	-83100	-1351
June 30.....	328.17	2381900	-97300	-1635
July 31.....	326.34	2253800	-128100	-2083
Aug. 31.....	326.45	2261500	+7700	+125
Sept. 30.....	325.98	2228600	-32900	+553
WTR YR 1977	-	-	-116900	-161

OGEECHEE RIVER BASIN

67

02202000 OGEECHEE RIVER AT SCARBORO, GA.

LOCATION.--Lat 32°42'38", long 81°52'46", Jenkins County, Hydrologic Unit 03060202, at abandoned highway bridge at Scarboro, 3.5 mi (5.6 km) downstream from Sculls Creek, 6.5 mi (10.5 km) upstream from Horse Creek, and 7.5 mi (12.1 km) southeast of Millen.

DRAINAGE AREA.--1,940 mi² (5,020 km²), approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Water-discharge records for the water years 1937-71 are published in reports of the Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV						
01...	1550	1800	6.9	15.0	11.0	9.0
FEB						
07...	1515	2340	6.8	6.0	3.5	12.8
MAY						
02...	1320	1150	6.8	29.5	20.5	6.2
AUG						
08...	1425	734	6.4	32.0	27.0	5.7

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)
NOV					
01...	59	70	4	.8	390
FEB					
07...	50	30	5	.6	73
MAY					
02...	67	80	15	.7	36
AUG					
08...	83	60	17	.7	150

DATE	HARD- NESS (CA+MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV						
01...	22	16	<.02	<.02	.02	8.0
FEB						
07...	16	15	.18	.20	.02	6.0
MAY						
02...	24	23	.14	<.02	.08	6.0
AUG						
08...	--	--	.12	<.02	.05	7.0

OGEECHEE RIVER BASIN

02202190 OGEECHEE RIVER NEAR OLIVER, GA.

LOCATION.--Lat 32°29'45", long 81°33'11", Screven-Bulloch County line, Hydrologic Unit 03060202, at bridge on State Highway 24, 0.3 mi (0.5 km) upstream from Ogeechee Creek, and 2.0 mi (3.2 km) southwest of Oliver.

DRAINAGE AREA.--2,230 mi² (5,780 km²), approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
04...	1245	890	7.0	24.0	20.5	7.3
NOV						
02...	1045	2600	6.8	12.0	10.0	9.8
DEC						
06...	1400	4140	6.6	9.0	7.0	10.9
JAN						
10...	1400	5220	6.9	6.0	6.0	9.0
FEB						
08...	0945	2840	7.2	-2.5	2.5	10.5
MAR						
07...	1300	4560	6.8	14.0	12.0	7.9
APR						
04...	1430	3560	6.7	28.0	20.5	6.2
MAY						
02...	1730	1420	7.1	24.5	22.0	5.8
JUN						
13...	1415	496	7.3	32.5	27.0	7.2
JUL						
11...	1400	467	7.3	34.0	30.0	6.1
AUG						
09...	0740	711	6.9	25.0	26.5	6.4
SEP						
14...	1200	761	7.2	27.5	25.0	6.6

DATE	SPE- CIFIC CON- DUCT- ANCE (MICHO- MMOS)	COLOR (PLAT- INIM- CORALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT												
04...	21	40	3	.5	91	26	22	--	.05	.04	.04	11
NOV												
02...	56	60	5	.5	230	16	12	--	<.02	.02	.03	11
DEC												
06...	47	100	7	1.2	390	14	10	--	<.02	<.02	.03	10
JAN												
10...	44	45	10	1.4	63	12	12	--	.02	<.02	.02	7.0
FEB												
08...	51	35	6	.6	36	14	14	--	.03	.02	.02	5.0
MAR												
07...	52	70	7	1.4	430	15	15	--	--	--	--	--
APR												
04...	50	90	15	1.1	36	17	16	--	.06	.03	.05	10
MAY												
02...	76	80	14	.6	<30	24	25	--	.14	<.02	.08	6.0
JUN												
13...	104	40	6	1.1	<30	28	34	--	.18	<.02	.05	3.6
JUL												
11...	83	40	7	.6	<30	--	--	5	.15	.04	.03	2.0
AUG												
09...	42	30	11	--	--	--	--	4	.13	<.02	.06	5.0
SEP												
14...	77	60	11	.4	40	--	--	<1	.09	<.02	.07	4.0

OGEECHEE RIVER BASIN

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02202500 OGEECHEE RIVER NEAR EDEN, GA.
(National stream-quality accounting network station)

LOCATION.--Lat 32°11'29", long 81°24'58", Effingham-Bryan County line, Hydrologic Unit 03060202, on right bank 600 ft (183 m) downstream from bridge on U.S. Highways 25, 80, and 280, 2 mi (3.2 km) west of Eden, 2 mi (3.2 km) upstream from Seaboard Coast Line Railroad bridge, and 3 mi (4.8 km) upstream from Black Creek.
DRAINAGE AREA.--2,650 mi² (6,860 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 19.64 ft (5.99 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1939, nonrecording gage at site 600 ft (183 m) upstream at same datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--40 years, 2,399 ft³/s (67.9 m³/s), 12.29 in/yr (312.2 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,300 ft³/s (745 m³/s) Mar. 31, 1944, gage height, 14.7 ft (4.48 m); minimum observed, 131 ft³/s (3.71 m³/s) Sept. 12-14, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1840, 20 ft (6.10 m) in October 1929, from data furnished by Central of Georgia Railway Co.

Flood of January 1925, reached a stage of 19.5 ft (5.94 m), from information as explained above.

Flood of April 1936, reached a stage of 15.2 ft (4.63 m), from information as explained above, discharge, 30,000 ft³/s (850 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,800 ft³/s (362 m³/s) Mar. 30, gage height, 11.49 ft (3.502 m); minimum, 258 ft³/s (7.31 m³/s) July 28, 29.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	785	3340	4070	5520	4300	2440	12000	1420	821	459	316	1050
2	805	3050	4480	5420	4140	2490	11000	1410	782	441	324	1110
3	817	2830	4660	5690	3990	2550	9660	1410	752	447	333	1160
4	830	2670	4860	6120	3870	2700	8450	1390	744	435	402	1170
5	865	2520	5100	6340	3750	3040	7490	1360	744	423	592	1130
6	900	2390	5280	6490	3650	3410	6660	1310	734	429	817	1040
7	940	2260	5460	6540	3560	4200	5980	1260	718	420	1000	958
8	1010	2130	5580	6590	3460	5120	5500	1210	703	399	1010	905
9	1170	2020	5410	6940	3360	6080	5110	1160	695	393	844	885
10	1310	1930	5240	7200	3250	6980	4780	1110	672	396	723	877
11	1430	1850	5150	7080	3120	7520	4470	1050	615	414	688	867
12	1540	1750	5320	6780	3020	7810	4240	996	550	426	687	845
13	1570	1670	6060	6420	2920	8250	4090	944	510	423	709	796
14	1570	1580	6800	6190	2820	8790	3950	890	489	402	761	738
15	1560	1510	7430	6090	2720	9080	3740	836	472	369	841	707
16	1560	1470	7660	5930	2640	8980	3460	782	462	348	944	697
17	1760	1450	7710	5810	2550	8570	3180	734	456	330	1050	703
18	2000	1450	7730	5720	2490	8030	2930	700	429	314	1130	716
19	2130	1450	7860	5700	2430	7520	2740	667	429	306	1170	708
20	2310	1460	8080	5780	2390	7130	2580	640	426	300	1120	675
21	2570	1480	8140	5910	2320	6880	2450	617	423	295	1000	652
22	2850	1510	7860	6100	2260	6850	2310	612	429	290	869	632
23	3060	1550	7680	6330	2200	7220	2160	600	444	285	814	611
24	3270	1620	8140	6350	2180	8310	2000	590	487	283	812	606
25	3520	1690	8490	6130	2190	9230	1850	615	535	280	823	631
26	3900	1810	8300	5770	2220	9560	1730	749	572	268	800	666
27	4200	2180	7590	5440	2300	9900	1630	911	597	265	802	698
28	4250	2690	6900	5170	2390	11100	1540	1010	585	263	829	723
29	4160	3090	6390	4900	---	12300	1480	1070	535	265	899	726
30	3980	3520	5960	4660	---	12600	1430	993	492	268	952	733
31	3680	---	5690	4470	---	12500	---	863	---	288	989	---
TOTAL	66302	61920	201080	185580	82490	227140	130590	29909	17302	10924	25050	24415
MEAN	2139	2064	6486	5986	2946	7327	4353	965	577	352	808	814
MAX	4250	3520	8490	7200	4300	12600	12000	1420	821	459	1170	1170
MIN	785	1450	4070	4470	2180	2440	1430	590	423	263	316	606
CFSM	.81	.78	2.45	2.26	1.11	2.77	1.64	.36	.22	.13	.31	.31
IN.	.93	.87	2.82	2.61	1.16	3.19	1.83	.42	.24	.15	.35	.34

CAL YR 1976 TOTAL 942234 MEAN 2574 MAX 8490 MIN 429 CFSM .97 IN 13.23
WTR YR 1977 TOTAL 1062702 MEAN 2912 MAX 12600 MIN 263 CFSM 1.10 IN 14.92

OGEECHEE RIVER BASIN

02202500 OGEECHEE RIVER NEAR EDEN, GA.--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to current year.

WATER TEMPERATURES: October 1972 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 137 micromhos July 28, 1977; minimum, 28 micromhos Mar. 29, 30, 1976.

WATER TEMPERATURES: Maximum, 32.0°C July 9-11, 13, 15, 21, 22, 1977; minimum, 1.5°C Jan. 19-21, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 137 micromhos July 28; minimum, 34 micromhos Jan. 4.

WATER TEMPERATURES: Maximum, 32.0°C July 9-11, 13, 15, 21, 22; minimum, 1.5°C Jan. 19-21.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT					
04...	1415	830	7.3	22.5	7.8
NOV					
08...	1230	2120	6.7	10.0	--
09...	0930	2030	--	--	--
DEC					
07...	0720	5420	5.1	9.0	--
16...	1355	7680	--	--	--
JAN					
12...	1505	6750	--	--	--
FEB					
22...	1350	2250	--	--	--
MAR					
17...	0900	8640	7.0	18.0	5.0
APR					
20...	1130	2590	7.3	19.5	8.0
MAY					
11...	1250	1050	7.3	22.0	5.8
31...	1730	851	--	--	--
JUN					
07...	1400	718	7.0	26.5	7.1
21...	1600	423	6.9	30.5	7.5
22...	1755	432	--	--	--
JUL					
28...	1530	263	7.1	27.5	7.4
AUG					
02...	0830	315	--	--	--
23...	1400	812	6.8	28.0	7.2
SEP					
06...	1330	1040	6.8	27.0	6.1
08...	0700	911	--	--	--
20...	1315	675	6.6	24.5	7.5

02202500 OGEECHEE RIVER NEAR EDEN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPECIFIC CONDUCTANCE (MICRO-MHOS)	TURBIDITY (JTU)	TURBIDITY (NTU)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG)	DISSOLVED SODIUM (NA) (MG/L)
OCT 04...	85	--	--	60	103	--	--	--	--	--
NOV 08...	54	3	--	130	540	16	1	5.4	.7	4.3
DEC 07...	41	7	--	310	6464	10	1	3.3	.4	3.4
MAR 17...	37	--	--	83	93	--	--	--	--	--
APR 20...	66	--	8.7	37	750	--	--	--	--	--
MAY 11...	80	8	10	820	130	24	0	8.1	.9	5.5
31...	--	--	4.0	--	--	--	--	--	--	--
JUN 07...	86	4	8.0	87	640	25	0	8.2	1.1	6.8
21...	108	3	3.0	84	110	21	0	6.3	1.2	11
22...	--	--	2.0	--	--	--	--	--	--	--
JUL 28...	121	--	3.0	500	37	--	--	--	--	--
AUG 02...	--	--	2.0	--	--	--	--	--	--	--
23...	91	4	5.0	660	44	24	0	7.8	1.0	7.4
SEP 06...	77	5	--	390	2700	22	1	7.1	1.1	6.0
08...	--	--	4.0	--	--	--	--	--	--	--
20...	75	4	--	100	150	23	0	7.6	1.0	6.0

DATE	DISSOLVED PHOSPHATE (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CAC03 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SI02) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
NOV 09...	1.6	38	0	31	10	11	.2	13	67	76
DEC 06...	1.6	13	0	11	6.6	5.4	.3	9.7	59	40
MAY 12...	1.8	40	0	33	13	6.9	.1	10	81	75
JUN 08...	2.0	35	0	33	12	12	.1	12	92	81
22...	2.3	55	0	42	18	18	.1	13	113	114
AUG 24...	2.2	41	0	34	17	15	.1	13	117	98
SEP 07...	2.2	32	0	26	11	7.7	.1	12	90	69
21...	2.2	38	0	31	16	12	.1	13	101	90

OGEECHEE RIVER BASIN

02202500 OGEECHEE RIVER NEAR EDEN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT 04...	.08	--	.17	.25	1.1	.03	9.7	6800	2	4.5	--
NOV 08...	.00	--	.29	.29	1.3	.03	--	5	4	23	--
09...	--	--	--	--	--	--	--	--	2	11	--
DEC 07...	.00	--	.43	.43	1.9	.03	--	39	5	73	--
16...	--	--	--	--	--	--	--	--	5	104	--
JAN 12...	--	--	--	--	--	--	--	--	2	36	--
FEB 22...	--	--	--	--	--	--	--	--	8	49	--
MAR 17...	--	--	--	--	--	--	9.1	--	--	--	--
APR 20...	.14	--	.54	.68	3.0	.07	6.6	--	13	91	96
MAY 11...	.18	--	.49	.67	3.0	.07	--	83	10	28	95
31...	--	--	--	--	--	--	--	--	22	51	--
JUN 07...	.18	--	.85	1.0	4.6	.05	--	--	7	14	92
21...	.10	--	.29	.39	1.7	.05	--	120	3	3.4	100
22...	--	--	--	--	--	--	--	--	9	10	--
JUL 28...	.14	--	.29	.43	1.9	.04	3.8	46	8	5.7	90
AUG 02...	--	--	--	--	--	--	--	--	18	15	--
23...	.16	--	.51	.67	3.0	.08	--	260	25	55	65
SEP 06...	.09	--	.39	.48	2.1	.06	--	1200	9	25	84
08...	--	--	--	--	--	--	--	--	12	30	--
20...	.12	.01	--	--	--	.05	8.2	1300	11	20	64

DATE	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
OCT 04...	--	0	1	1	20	3	1	0	0	0	730
MAR 17...	1	1	1	1	10	0	0	0	4	4	690
APR 20...	2	1	0	0	<10	4	0	0	6	3	2200
JUL 28...	0	0	2	0	10	0	0	0	6	2	390

DATE	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT 04...	430	19	0	50	40	.0	.0	0	0	30	10
MAR 17...	350	33	1	10	10	.0	.0	--	0	10	10
APR 20...	850	12	5	40	50	.0	.0	0	0	20	10
JUL 28...	200	7	6	70	60	.0	.0	0	0	40	10

02202500 OGEECHEE RIVER NEAR EDEN, GA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	82	80	45	43	45	44	41	40	48	47	62	60
2	84	81	47	45	44	43	42	41	48	48	61	60
3	85	83	47	47	43	42	42	36	49	48	61	59
4	85	83	48	47	43	42	38	34	49	48	60	57
5	85	81	49	48	42	41	39	36	49	48	57	56
6	82	78	50	49	42	41	40	36	50	49	56	55
7	81	75	51	50	42	40	38	37	50	49	54	50
8	74	69	54	51	41	40	39	37	51	50	50	45
9	69	65	54	54	42	41	38	37	51	50	45	41
10	65	63	55	54	42	41	39	37	51	50	42	40
11	63	61	56	54	43	42	40	38	51	49	---	---
12	62	61	58	56	42	41	40	39	51	49	---	---
13	63	61	60	58	41	40	40	39	52	51	---	---
14	61	60	62	60	41	38	41	39	53	52	---	---
15	62	60	65	63	40	39	40	39	54	53	---	---
16	63	62	67	66	41	39	42	40	55	54	---	---
17	62	55	67	67	40	39	43	41	55	54	---	---
18	55	53	67	66	41	39	43	42	55	54	---	---
19	54	50	67	66	41	40	44	43	56	55	---	---
20	51	49	68	67	41	40	44	42	58	56	---	---
21	49	46	71	69	42	40	43	42	60	57	---	---
22	46	44	71	71	42	40	43	41	61	59	---	---
23	45	43	71	69	42	40	42	41	61	59	---	---
24	43	42	69	66	41	39	42	41	61	59	---	---
25	42	41	67	63	40	38	42	41	60	58	47	44
26	41	40	63	57	38	37	43	42	61	59	44	41
27	41	40	58	54	38	37	43	42	63	58	43	41
28	41	41	53	48	39	38	44	43	61	59	43	38
29	41	40	48	47	39	38	45	44	---	---	42	37
30	41	40	47	45	40	39	46	45	---	---	39	35
31	43	41	---	---	40	39	47	46	---	---	38	35
MONTH	85	40	71	43	45	37	47	34	63	47	62	35
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	37	35	74	72	82	81	73	65	132	75	63	57
2	38	35	74	73	82	80	78	56	128	83	60	57
3	40	37	75	74	84	76	92	65	121	84	66	60
4	44	41	75	73	89	74	98	76	128	101	72	66
5	47	44	74	72	91	74	106	95	98	75	77	72
6	50	47	73	72	91	67	103	88	89	74	77	72
7	51	49	74	73	93	70	97	83	76	73	72	66
8	52	50	75	74	93	68	96	82	83	75	66	63
9	55	52	78	76	87	55	96	80	93	84	72	65
10	56	54	81	78	94	47	91	60	96	87	81	72
11	56	55	81	80	101	56	87	63	90	82	83	79
12	58	56	80	78	108	56	85	57	94	83	86	80
13	58	57	80	76	103	61	74	63	103	86	86	72
14	59	57	82	78	109	80	70	57	100	96	88	62
15	59	58	85	80	117	71	67	60	97	94	82	54
16	60	57	87	84	114	67	65	55	94	86	77	69
17	61	59	89	85	122	57	67	49	85	74	78	74
18	62	60	90	86	116	51	72	52	75	67	75	66
19	65	63	86	78	108	58	98	56	69	66	79	72
20	66	64	81	77	106	57	111	64	78	69	79	73
21	66	64	81	78	111	63	118	92	90	80	74	63
22	67	65	83	78	111	66	114	87	93	91	79	54
23	69	67	88	82	109	86	113	96	92	84	107	45
24	72	69	96	73	96	79	123	86	84	80	114	51
25	74	72	104	92	98	60	134	70	80	77	111	64
26	75	74	94	67	88	52	124	88	81	77	101	65
27	76	74	75	70	83	62	122	106	82	78	96	56
28	75	72	76	73	85	64	137	121	81	76	83	50
29	73	72	74	70	75	56	129	104	77	72	75	48
30	74	73	80	70	69	65	105	73	72	68	76	63
31	---	---	82	75	---	---	116	88	69	62	---	---
MONTH	76	35	104	67	122	47	137	49	132	62	114	45

OGEECHEE RIVER BASIN

02202500 OGECHIEE RIVER NEAR EDEN, GA.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MTN	MAX	MIN	MAX	MTN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		
1	23.5	22.5	12.5	12.0	10.0	9.0	9.0	7.5	4.5	3.5	13.0	12.0
2	22.5	21.5	12.0	11.5	9.0	8.5	7.0	6.5	4.5	4.0	13.0	12.0
3	22.5	21.5	12.0	11.5	8.5	8.0	6.5	6.0	5.0	4.0	12.5	11.5
4	22.5	21.5	12.0	11.5	8.5	7.5	6.5	6.0	5.5	4.5	13.5	12.5
5	22.0	21.0	11.5	10.5	8.5	8.0	7.5	6.5	6.0	5.0	14.5	13.5
6	21.5	21.0	10.5	10.0	9.0	8.5	7.5	7.0	6.0	5.5	14.5	14.0
7	22.0	21.0	10.0	9.5	9.5	9.0	8.5	7.5	5.5	5.0	14.5	14.0
8	22.0	21.5	10.0	9.5	9.5	9.0	8.0	7.0	5.5	5.0	14.0	13.0
9	21.5	20.5	9.5	9.0	8.5	8.0	8.0	7.5	5.5	5.0	14.0	12.5
10	20.5	19.5	9.5	9.0	8.0	7.5	8.5	7.5	6.0	5.0	13.5	13.0
11	19.0	18.0	10.5	9.5	9.0	8.0	7.5	5.5	6.5	5.0	14.5	13.5
12	18.0	17.0	11.0	10.5	10.5	9.0	5.5	5.0	7.0	6.0	15.5	14.5
13	17.0	16.0	10.5	10.0	11.0	10.0	6.0	5.0	8.5	7.0	17.5	15.5
14	17.0	16.0	10.5	9.5	10.5	10.0	6.5	5.5	9.0	8.0	18.0	16.5
15	17.0	16.0	9.5	9.5	10.5	10.5	7.5	6.5	9.5	8.5	18.5	16.5
16	17.0	16.5	9.5	9.0	11.0	10.5	7.0	6.5	9.5	9.0	19.5	18.0
17	17.5	17.0	9.5	9.5	10.5	10.0	6.0	4.0	9.0	8.0	19.0	18.0
18	17.0	16.0	10.5	9.5	10.5	10.0	4.0	3.0	9.0	7.5	19.0	17.0
19	16.0	15.0	10.5	10.0	10.5	10.0	3.0	1.5	10.0	9.0	19.5	18.5
20	16.0	15.5	11.0	10.5	10.5	10.0	2.0	1.5	10.5	10.0	19.5	19.0
21	15.5	14.5	11.5	11.0	10.5	8.0	2.5	1.5	10.0	9.0	19.0	17.5
22	14.5	13.5	11.5	10.5	8.0	6.5	3.0	2.0	10.0	8.5	18.0	17.0
23	13.5	13.0	10.5	9.5	7.5	7.0	3.0	2.0	10.5	9.0	16.5	15.5
24	14.0	13.5	9.5	8.5	7.5	6.5	3.0	2.5	12.0	10.5	15.5	14.5
25	14.5	14.0	9.0	8.0	7.5	6.5	4.5	3.0	13.0	11.5	16.0	15.0
26	14.5	14.5	9.0	8.0	8.5	7.5	4.5	3.5	13.5	12.0	16.0	15.0
27	14.5	14.0	10.0	9.0	8.0	7.0	4.5	4.0	14.5	13.5	16.0	15.5
28	14.0	13.0	12.5	10.5	8.5	7.5	5.5	4.5	14.0	13.0	17.0	15.5
29	12.5	12.0	13.5	12.5	9.0	8.5	5.5	4.5	---	---	18.0	16.5
30	12.5	11.5	12.5	10.5	8.5	7.5	4.5	4.0	---	---	19.0	17.5
31	13.0	12.5	---	---	9.0	8.5	4.5	4.0	---	---	19.5	18.0
MONTH	23.5	11.5	13.5	8.0	11.0	6.5	9.0	1.5	14.5	3.5	19.5	11.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		
1	19.0	18.5	20.0	19.0	26.5	25.0	31.5	29.0	30.0	28.0	27.5	26.5
2	19.5	18.5	20.5	19.5	27.0	25.5	30.0	28.5	30.0	28.5	27.0	26.0
3	20.5	19.5	21.0	20.0	27.5	25.5	29.5	27.5	30.0	28.5	26.0	25.5
4	21.0	20.0	22.0	20.5	27.0	25.5	30.0	28.0	28.5	27.5	25.5	25.5
5	21.0	19.5	22.5	21.0	27.5	25.5	30.0	28.5	28.5	27.0	26.0	25.0
6	19.5	18.0	23.0	22.0	27.5	26.0	30.5	28.5	28.0	26.5	27.5	25.5
7	17.5	17.0	23.5	22.5	26.5	25.5	31.5	29.5	28.0	26.5	28.0	26.5
8	18.0	16.5	24.5	23.0	26.0	24.5	31.5	29.5	28.5	27.0	27.5	27.0
9	17.5	17.0	24.0	23.0	26.0	24.5	32.0	29.5	29.5	28.0	27.5	26.5
10	17.0	16.5	23.0	22.0	26.0	24.5	32.0	30.0	30.0	28.5	27.5	26.0
11	17.0	16.0	22.5	21.5	26.5	24.5	32.0	30.5	30.0	28.5	27.5	26.5
12	17.5	16.5	22.0	21.0	27.5	25.5	31.5	30.0	29.5	28.5	26.5	25.5
13	18.0	17.0	22.5	20.5	28.5	26.5	32.0	30.0	29.0	28.0	26.5	25.5
14	18.5	17.5	22.5	21.0	28.5	26.5	31.5	30.5	28.0	27.5	27.0	25.5
15	18.5	17.5	23.0	21.5	29.0	27.0	32.0	30.5	27.5	27.0	27.0	26.0
16	19.0	18.0	24.0	22.0	28.0	27.0	31.5	29.5	27.5	26.5	27.0	26.0
17	19.0	18.5	24.0	22.5	28.5	26.5	30.5	29.0	28.0	26.5	26.5	26.0
18	20.0	19.0	25.0	23.0	29.5	27.0	30.0	28.5	28.0	27.0	27.0	26.0
19	20.0	19.5	25.5	23.5	30.0	28.0	30.5	28.5	27.5	27.0	27.0	25.5
20	20.5	19.5	25.5	24.0	30.5	28.5	31.0	28.5	27.0	26.5	27.5	26.0
21	20.5	19.5	25.0	24.5	30.5	28.5	32.0	29.5	27.0	26.0	28.0	26.5
22	20.5	20.0	25.0	24.0	30.5	29.0	32.0	30.0	27.5	26.0	28.0	27.0
23	20.5	20.0	24.5	23.5	30.5	29.0	30.0	29.0	28.0	26.5	27.5	26.0
24	21.0	20.0	24.0	23.0	30.5	28.5	29.5	28.0	27.5	26.5	26.5	25.5
25	21.0	20.0	24.5	23.5	30.5	28.5	30.0	27.5	28.0	26.0	26.5	25.0
26	20.0	19.0	24.0	23.0	30.0	29.0	30.0	28.5	27.5	26.5	26.5	25.5
27	19.0	18.5	23.5	22.5	30.0	28.0	29.0	27.5	28.0	26.5	26.5	25.0
28	19.0	18.0	23.5	22.5	30.5	28.5	27.5	27.0	28.5	27.0	26.5	25.0
29	19.5	18.5	24.0	22.5	31.0	29.0	28.5	26.5	28.0	27.0	25.5	24.5
30	19.5	19.0	25.0	23.0	30.5	29.5	29.5	27.0	28.0	27.0	25.0	24.0
31	---	---	26.0	24.0	---	---	29.5	27.5	28.0	26.5	---	---
MONTH	21.0	16.0	26.0	19.0	31.0	24.5	32.0	26.5	30.0	26.0	28.0	24.0

02203000 CANOOCHEE RIVER NEAR CLAXTON, GA.

LOCATION.--Lat 32°11'05", long 81°53'20", Evans County, Hydrologic Unit 03060208, on right bank 400 ft (122 m) upstream from bridge on State Highway 73, 2 mi (3.2 km) northeast of Claxton, and 10 mi (16.1 km) upstream from Lotts Creek.

DRAINAGE AREA.--555 mi² (1,440 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1937 to current year.

REVISED RECORDS.--WSP 1112: 1939-41, 1944.

GAGE.--Water-stage recorder. Datum of gage is 80.5 ft (24.54 m) above mean sea level (levels by Georgia Department of Transportation). Prior to Oct. 20, 1949, nonrecording gage at same site and datum.

REMARKS.--Records good except those for periods of no gage-height record, Oct. 9 to Nov. 1, which are fair.

AVERAGE DISCHARGE.--40 years, 473 ft³/s (13.4 m³/s), 11.57 in/yr (293.9 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft³/s (357 m³/s) May 26, 1966, gage height, 16.58 ft (5.054 m); minimum observed discharge, 0.86 ft³/s (0.024 m³/s) Sept. 8-14, Oct. 25, 26, Nov. 2, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,310 ft³/s (122 m³/s) Mar. 15, gage height, 12.54 ft (3.822 m); minimum, 4.0 ft³/s (0.113 m³/s) July 15.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	620	2710	1320	1000	682	1190	77	90	7.7	22	38
2	128	850	2740	1310	949	686	1390	75	67	9.8	25	37
3	137	816	2800	1410	888	756	1450	69	58	31	27	51
4	133	745	2620	1660	844	812	1310	61	56	64	249	204
5	115	667	2170	2100	810	992	1220	52	44	45	762	391
6	99	585	1750	2450	771	1160	1180	45	32	17	870	506
7	119	528	1490	2290	733	1940	1100	39	27	11	544	364
8	162	483	1400	2030	681	3040	981	34	25	8.4	252	211
9	210	418	1390	1900	618	3440	868	30	23	7.3	130	141
10	230	384	1430	1890	567	3440	731	26	19	6.2	82	103
11	260	367	1460	1820	538	2970	600	23	15	5.4	55	114
12	250	353	1520	1670	585	2530	547	20	14	4.9	41	148
13	240	337	1700	1520	610	2470	470	17	12	4.7	32	126
14	240	324	1970	1450	585	3390	371	16	11	4.4	35	97
15	240	342	2210	1530	529	4120	290	14	12	4.4	40	77
16	250	371	2230	1630	504	3110	238	13	9.8	4.9	56	67
17	280	394	2130	1710	459	2290	196	13	8.4	5.8	48	77
18	320	483	2100	1660	407	1760	168	12	8.1	6.5	34	77
19	380	546	2020	1520	378	1420	148	10	7.3	5.4	46	73
20	400	573	1800	1350	366	1230	132	10	7.3	6.2	97	62
21	400	618	1570	1260	357	1110	119	9.8	6.5	5.4	73	52
22	410	645	1390	1210	403	1060	105	9.8	7.3	5.2	73	44
23	420	637	1280	1150	430	1110	94	13	13	5.8	105	39
24	450	596	1190	1070	450	1290	94	16	13	6.2	103	33
25	500	564	1110	1050	580	1640	97	24	13	6.2	94	27
26	560	560	1120	1060	600	2210	96	27	9.2	5.4	103	25
27	640	853	1180	1090	641	2470	101	124	21	5.8	108	23
28	700	1320	1240	1130	684	2050	96	328	22	6.9	82	25
29	810	1820	1290	1120	---	1590	87	321	20	12	61	38
30	780	2640	1340	1070	---	1270	80	227	11	16	48	38
31	700	---	1330	1040	---	1130	---	142	---	18	43	---
TOTAL	10713	20429	53680	46470	16967	59168	15549	1897.6	681.9	352.9	4340	3308
MEAN	346	681	1732	1499	606	1909	518	61.2	22.7	11.4	140	110
MAX	810	2640	2800	2450	1000	4120	1450	328	90	64	870	506
MIN	99	324	1110	1040	357	682	80	9.8	6.5	4.4	22	23
CFSM	.62	1.23	3.12	2.70	1.09	3.44	.93	.11	.04	.02	.25	.20
IN.	.72	1.37	3.60	3.11	1.14	3.97	1.04	.13	.05	.02	.29	.22
CAL YR 1976	TOTAL	196639.0	MEAN 537	MAX 2960	MIN 10	CFSM .97	IN 13.18					
WTR YR 1977	TOTAL	233556.4	MEAN 640	MAX 4120	MIN 4.4	CFSM 1.15	IN 15.65					

OGEECHEE RIVER BASIN

02203000 CANOOCHEE RIVER NEAR CLAXTON, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV 02...	1155	837	5.6	16.0	10.0	9.5
FEB 08...	1215	683	6.3	6.0	3.0	12.4
MAY 03...	0605	73	5.9	16.5	19.0	6.7
AUG 09...	1100	129	5.1	31.5	26.0	6.1

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FFCAL COLI- FORM (FC BROTH) (MPN)
NOV 02...	43	100	5	1.1	230
FEB 08...	35	50	4	.5	91
MAY 03...	39	120	8	.9	91
AUG 09...	57	100	10	--	--

DATE	HARD- NESS (CA.MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 02...	11	3	.02	.08	.05	16
FEB 08...	6	4	.08	.02	.03	6.0
MAY 03...	8	4	.10	.07	.10	11
AUG 09...	--	--	.02	<.02	.08	20

02203559 PEACOCK CREEK AT MCINTOSH, GA.

LOCATION.--Lat 31°48'49", long 81°31'13", Liberty County, Hydrologic Unit 03060204, at culvert on county road 0.4 mi (0.6 km) southwest of U.S. Highway 82, and 0.9 mi (1.4 km) south of McIntosh.

DRAINAGE AREA.--33.0 mi² (85.5 km²), approximately.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 0.40 ft (0.12 m) above mean sea level (levels by Georgia Department of Transportation).

REMARKS.--Records good above 100 cfs and fair below 100 cfs. Low flows augmented by sewage effluent from city of Hinesville.

Low flows are also affected for small portions of some days during spring tides.

AVERAGE DISCHARGE.--11 years, 28.3 ft³/s (0.801 m³/s), 11.65 in/yr (295.9 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 11.33 ft (3.453 m) Sept. 1, 1969, discharge not determined; minimum daily discharge, 0.18 ft³/s (0.005 m³/s) May 31, 1967.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s (4.25 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)
Oct. 18	1830	*456 12.91	9.79 2.984	Jan. 5	unknown	325 9.20	9.45 2.881
Nov. 29	0630	388 10.99	9.62 2.932				

Minimum daily discharge, 1.0 ft³/s (0.028 m³/s) July 14, 18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	9.2	255	94	24	57	13	3.2	3.3	1.2	23	1.7
2	25	8.3	193	98	22	42	12	3.1	2.9	1.9	6.4	3.3
3	13	9.1	140	170	21	34	11	3.2	2.2	2.1	2.3	23
4	8.8	7.8	73	315	25	46	9.6	3.7	2.0	1.6	2.4	54
5	7.5	6.3	46	292	24	128	14	3.2	1.9	2.2	3.0	57
6	7.5	5.2	37	235	22	127	11	3.0	1.7	1.6	2.2	39
7	7.3	5.0	53	181	20	125	8.8	2.9	2.6	1.4	1.6	20
8	9.2	4.8	107	142	18	122	8.1	2.8	3.2	1.3	1.3	12
9	47	4.6	97	85	17	86	6.9	3.1	2.6	1.3	1.2	8.2
10	55	4.5	71	61	15	53	6.4	3.9	2.0	1.1	1.1	6.2
11	43	4.5	64	47	14	42	4.8	2.9	1.8	1.1	1.1	4.6
12	30	4.3	101	39	14	41	4.4	2.8	1.8	1.2	1.2	3.8
13	18	4.5	114	36	14	96	4.4	2.8	2.1	1.1	1.2	3.3
14	12	4.5	110	48	14	115	4.2	2.7	6.5	1.0	1.5	2.5
15	9.2	5.4	127	93	13	74	3.9	2.9	5.1	1.2	3.6	3.2
16	8.1	6.3	145	73	13	46	3.8	2.9	3.7	1.3	4.9	6.1
17	141	15	125	60	12	36	3.8	2.9	5.4	1.2	3.4	4.4
18	408	34	84	47	12	30	3.9	2.9	5.2	1.0	2.0	6.6
19	393	26	51	39	11	23	3.9	3.0	4.0	1.2	4.5	19
20	296	22	48	35	43	22	3.5	3.4	2.5	1.3	12	9.2
21	216	23	43	32	36	20	3.2	4.4	3.2	3.2	6.2	6.2
22	162	19	36	29	31	20	3.1	3.7	2.7	2.1	3.0	32
23	93	15	32	27	26	16	3.3	4.2	2.1	5.5	3.0	48
24	40	12	28	26	48	14	4.4	5.9	1.3	2.9	3.7	45
25	28	9.9	24	31	54	12	3.6	5.9	2.2	1.5	4.7	29
26	31	25	76	29	42	11	3.0	8.9	1.5	1.3	4.1	19
27	28	161	75	29	46	9.8	2.7	10	2.7	4.1	3.7	16
28	21	277	58	35	74	9.2	2.7	2.9	2.5	6.9	3.0	18
29	18	377	60	33	---	8.2	2.7	4.6	1.4	3.1	2.5	18
30	14	333	50	28	---	7.5	2.9	3.7	1.3	2.7	2.3	16
31	11	---	75	26	---	12	---	2.5	---	3.7	1.9	---
TOTAL	2252.6	1443.2	2598	2515	725	1484.7	173.0	118.0	83.4	64.3	118.0	534.3
MEAN	72.7	48.1	83.8	81.1	25.9	47.9	5.77	3.81	2.78	2.07	3.81	17.8
MAX	408	377	255	315	74	128	14	10	6.5	6.9	23	57
MTN	7.3	4.3	24	26	11	7.5	2.7	2.5	1.3	1.0	1.1	1.7
CFSM	2.20	1.46	2.54	2.46	.79	1.45	.18	.12	.08	.06	.12	.54
IN.	2.54	1.63	2.93	2.84	.82	1.67	.20	.13	.09	.07	.13	.60
CAL YR 1976	TOTAL	14173.7	MEAN	38.7	MAX	408	MIN	1.3	CFSM	1.17	IN	15.98
WTR YR 1977	TOTAL	12109.5	MEAN	33.2	MAX	408	MIN	1.0	CFSM	1.01	IN	13.65

02203559 PEACOCK CREEK AT MCINTOSH, GA.--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TRANS- PAR- ENCY (SECCHI DISK) (IN)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
DEC 07...	1230	51	81	6.4	14	14.0	12.5	5.2
FEB 23...	1135	26	60	7.8	12	15.0	11.0	7.0
APR 19...	1305	3.4	210	7.4	11	24.0	25.0	4.2
JUN 21...	1147	3.1	240	--	18	26.0	27.0	.4
AUG 30...	1050	--	314	7.3	24	27.0	26.0	--
31...	1050	2.0	--	--	--	--	--	--

DATE	COLOP (PLAT- INUM- COBAL T UNITS)	TUR- BID- ITY (JTU)	RIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)
DEC 07...	100	--	--	872	24	10	6.1	2.1	7.5
FFB 23...	--	9	3.9	--	--	--	--	--	--
APR 19...	--	15	6.4	--	--	--	--	--	--
JUN 21...	--	5	4.5	1050	--	--	--	--	--
AUG 30...	--	2	6.3	590	--	--	--	--	--

DATE	DIS-SOLVED PO-TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LIVITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
DEC 07...	1.4	17	0	14	9.9	10	.4	13	90
FEH 23...	--	--	--	--	--	12	--	--	--
APR 19...	--	--	--	--	--	23	--	--	--
JUN 21...	--	--	--	--	--	15	--	--	--
AUG 30...	--	--	--	--	--	26	--	--	--

[illegible]

LOCATION.--Lat 31°45'16", long 81°27'38", Liberty County, Hydrologic Unit 03060204, at gaging station on north side of stream, 0.4 mi (0.6 km) northwest of the Riceboro and Barrington Ferry Road, and 2.4 mi (3.9 km) northwest of Riceboro.
DRAINAGE AREA.--29.2 mi² (75.6 km²).
PERIOD OF RECORD.--September 1966 to current year.

[illegible]

LOCATION.--Lat 31°44'43", long 81°25'37", Liberty County, Hydrologic Unit 03060204, at gaging station 0.1 mi (0.2 km) downstream from Seaboard Coast Line Railroad bridge, and 0.5 mi (0.8 km) northeast of Riceboro.
DRAINAGE AREA.--31.7 mi² (82.1 km²).
PERIOD OF RECORD.--September 1966 to current year.

[illegible]

LOCATION.--Lat 31°42'10", long 81°19'54", Liberty County, Hydrologic Unit 03060204, 2.5 mi (4.0 km) south of Seabrook, 6.5 mi (10.5 km) southeast of Riceboro, and at mile 14.5 (23.3 km).
DRAINAGE AREA.--144 mi² (373 km²).
PERIOD OF RECORD.--September 1966 to current year.

[illegible]

NORTH NEWPORT RIVER BASIN

02203578 NORTH NEWPORT RIVER AT HALFMOON LANDING, GA.

LOCATION.--Lat 31°40'39", long 81°18'05", Liberty County, Hydrologic Unit 03060204, at Halfmoon Landing, at mile 9.9 (15.9 km).

DRAINAGE AREA.--157 mi² (407 km²).

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1970 to September 1976.

pH: July 1970 to September 1976.

WATER TEMPERATURES: July 1970 to September 1976.

DISSOLVED OXYGEN: July 1970 to September 1976.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT					
19...	1030	7.2	19.0	19.8	7.0
DEC					
07...	0940	6.9	10.5	11.5	9.4
JAN					
12...	0900	7.7	.0	8.0	--
FEB					
23...	1345	8.0	15.5	12.0	8.4
MAR					
29...	1110	7.7	21.0	19.5	6.8
APR					
19...	0945	6.8	22.0	21.5	6.8
MAY					
24...	0930	7.0	24.5	24.5	5.8
JUN					
21...	0911	7.5	28.0	25.5	4.8
JUL					
19...	1000	7.6	31.0	29.5	4.2
AUG					
30...	0820	7.6	27.0	28.0	4.1

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)
OCT						
19...	22300	55	17	.6	<30	2840
DEC						
07...	25700	35	8	2.1	<30	3450
JAN						
12...	6680	100	15	.8	<30	84
FEB						
23...	24000	20	10	1.2	<30	--
MAR						
29...	11000	60	14	1.2	36	1920
APR						
19...	26900	25	8	1.2	<30	--
MAY						
24...	28300	20	12	.7	<30	--
JUN						
21...	32500	45	19	.9	<30	4800
JUL						
19...	37500	35	20	1.0	<30	--
AUG						
30...	40200	50	31	1.1	<30	--

NORTH NEWPORT RIVER BASIN

E

02203578 NORTH NEWPORT RIVER AT HALFMOON LANDING, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	ALKA- LINITY AS CaCO3 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 19...	77	8600	26	<.02	<.02	.14	15
DEC 07...	78	10100	16	<.04	.03	.16	24
JAN 12...	32	2180	15	<.02	.96	.10	28
FEB 23...	77	10400	14	--	--	--	--
MAR 29...	54	5000	18	<.02	<.02	.09	12
APR 19...	81	11200	12	<.02	<.02	.07	7.0
MAY 24...	90	12200	25	.04	<.02	.11	9.0
JUN 21...	102	13900	38	<.02	<.02	.15	10
JUL 19...	--	15600	78	<.02	.03	.19	9.0
AUG 30...	--	16200	62	<.02	1.3	.20	17

ALTAMAHA RIVER BASIN

02203800 SOUTH RIVER AT ATLANTA, GA.

LOCATION.--Lat 33°40'46", long 84°18'30", DeKalb County, Hydrologic Unit 03070103, at bridge on Bouldercrest Road at Atlanta, 0.4 mi (0.6 km) southeast of Interstate Highway 285, and 1.1 mi (1.8 km) upstream from Sugar Creek.

DRAINAGE AREA.--41.5 mi² (107 km²).

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

REMARKS.--Natural flow of stream includes some flow diverted from the Chattahoochee River for municipal supply. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
06...	1400	68	7.1	21.0	21.0	3.0
NOV						
08...	1245	72	6.9	4.5	11.5	5.7
DEC						
15...	1020	230	6.6	9.5	8.0	8.2
JAN						
18...	0935	78	7.1	.0	3.5	8.6
FEB						
24...	1100	410	6.9	15.5	10.0	8.0
MAR						
28...	1200	82	7.5	20.0	16.0	5.7
MAY						
26...	1200	74	7.0	23.0	22.0	3.0
JUN						
22...	1130	95	6.9	32.5	25.0	1.7
JUL						
26...	1105	80	7.0	28.5	26.5	3.3
AUG						
22...	1330	68	6.7	31.0	26.0	3.7
SEP						
19...	1430	72	6.9	27.5	25.0	5.4

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	CON- FIRMED COLI- FORM (MPN)	HARD- NESS (CA, MG) (MG/L)
OCT							
06...	334	30	23	16	43000	430000	48
NOV							
08...	306	30	18	13	43000	--	47
DEC							
15...	129	50	70	18	93000	--	28
JAN							
18...	284	50	18	>7.9	210000	--	50
FEB							
24...	119	160	220	17	230000	930000	29
MAR							
28...	271	10	26	16	15000	750000	54
MAY							
26...	355	50	60	18	930000	2400000	30
JUN							
22...	338	60	55	17	430000	4600000	52
JUL							
26...	237	--	23	8.8	1200000	--	--
AUG							
22...	303	--	33	14	43000	--	--
SEP							
19...	279	--	33	11	68000	--	--

ALTAMAHA RIVER BASIN

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02203800 SOUTH RIVER AT ATLANTA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL PO- TAS- SIUM (K) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT 06...	15	3.7	39	7.8	61	30	29
NOV 08...	14	3.6	34	6.3	51	28	28
DEC 15...	8.8	2.3	10	3.2	28	--	7.4
JAN 18...	14	4.0	28	5.9	70	32	24
FEB 24...	9.4	2.5	8.5	3.2	22	18	9.0
MAR 28...	15	4.4	21	4.9	65	30	21
MAY 26...	15	3.8	39	7.5	86	32	33
JUN 22...	14	3.4	44	7.5	70	38	33
JUL 26...	--	--	--	--	--	--	--
AUG 22...	--	--	--	--	--	--	--
SEP 19...	--	--	--	--	--	--	--

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL RESI- DUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 06...	27	266	4.9	4.4	3.8	1100	260	25
NOV 08...	20	236	6.0	5.0	3.3	1100	280	22
DEC 15...	88	176	.63	1.2	1.0	3100	300	13
JAN 18...	10	208	.95	5.8	2.5	1190	420	16
FEB 24...	244	482	.67	.86	.85	4800	420	18
MAR 28...	31	198	1.5	6.0	2.7	1200	460	16
MAY 26...	36	270	1.4	7.2	4.1	1800	400	29
JUN 22...	35	284	1.6	3.8	4.0	1800	330	23
JUL 26...	34	110	2.0	4.2	1.9	--	--	19
AUG 22...	30	225	8.0	4.3	4.1	--	--	19
SEP 19...	21	222	7.9	2.2	.37	--	--	14

ALTAMAHA RIVER BASIN

02203965 SOUTH RIVER NEAR LITHONIA, GA.

LOCATION.--Lat 33°39'14", long 84°11'12", DeKalb County, Hydrologic Unit 03070103, at bridge on State Highway 155, 2.0 mi (3.2 km) south of State Highway 212, 2.4 mi (3.8 km) downstream from Snapfinger Creek, and 6.2 mi (10 km) southwest of Lithonia.

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

REMARKS.--Natural flow of stream includes some flow diverted from the Chattahoochee River for municipal supply. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT 06...	1345	7.2	20.0	18.0	5.2
NOV 08...	1200	7.2	5.0	9.5	7.6
DEC 15...	1100	7.0	9.5	8.0	8.0
JAN 18...	1010	7.1	.0	2.0	11.4
FEB 24...	1200	6.9	15.0	11.5	9.0
MAR 28...	1130	7.3	24.0	14.5	7.5
MAY 26...	1125	7.1	22.0	20.0	4.4
JUN 22...	1230	7.0	33.0	24.5	3.8
JUL 26...	1200	6.9	29.0	25.5	4.0
AUG 22...	1150	6.8	36.0	24.0	4.9
SEP 19...	1320	7.0	26.5	24.5	4.8

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)
OCT 06...	247	20	10	6.0	640	38
NOV 08...	224	20	8	6.4	36	36
DEC 15...	161	45	74	20	430000	29
JAN 18...	182	30	17	7.6	15000	36
FEB 24...	70	200	410	18	23000	19
MAR 28...	180	15	17	8.3	210	35
MAY 26...	227	40	19	8.2	930000	34
JUN 22...	249	45	21	5.8	4300	38
JUL 26...	156	--	76	10	430000	--
AUG 22...	254	--	19	4.8	430	--
SEP 19...	185	--	52	5.2	4300	--

02203965 SOUTH RIVER NEAR LITHONIA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	ALKA- LITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL RESI- DUE (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT							
06...	55	2.4	6	181	4.3	3.0	10
NOV							
08...	48	8.5	3	156	3.1	3.0	11
DEC							
15...	38	.22	132	152	1.7	1.4	12
JAN							
18...	49	.97	18	130	4.4	1.4	10
FEB							
24...	15	.50	786	1076	.57	.93	20
MAR							
28...	46	1.0	12	126	3.9	1.7	5.0
MAY							
26...	68	.86	18	164	5.5	2.0	12
JUN							
22...	53	.92	11	180	3.6	2.8	10
JUL							
26...	--	.57	44	377	1.8	.80	9.0
AUG							
22...	--	4.1	14	170	4.9	3.1	9.0
SEP							
19...	--	3.6	30	162	1.6	.29	8.0

ALTAMAHA RIVER BASIN

02204500 SOUTH RIVER NEAR MCDONOUGH, GA.

LOCATION.--Lat 33°29'48", long 84°00'53", Henry-Newton County line, Hydrologic Unit 03070103, on left bank 20 ft (6 m) downstream from Butler Bridge, 0.2 mi (0.3 km) upstream from Beech Creek, 2 mi (3.2 km) downstream from Big Walnut Creek, 4.5 mi (7.2 km) downstream from Cotton River, and 9 mi (14.5 km) northeast of McDonough.

DRAINAGE AREA.--456 mi² (1,180 km²).

PERIOD OF RECORD.--October 1939 to September 1960. Water years 1961-65 (annual maximum only). October 1975 to present.

REVISED RECORDS.--WSP 1624: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 564.99 ft (172.21 m) above mean sea level (Corps of Engineers bench mark).

REMARKS.--Records good except those for period of no gage-height record, Oct. 12 to Nov. 11, Nov. 19 to Dec. 9, June 9 to July 13, July 19-29, and Aug. 11-30, which are poor. Figures of daily discharge include some flow diverted from Chattahoochee River for municipal supply.

AVERAGE DISCHARGE.--23 years, 568 ft³/s (16.1 m³/s), 16.92 in/yr (429.8 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,500 ft³/s (977 m³/s) Jan. 7, 1946, gage height, 24.7 ft (7.53 m), from rating curve extended above 25,000 ft³/s (708 m³/s); minimum daily, 54 ft³/s (1.53 m³/s) Oct. 12, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft³/s (142 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. 10	2230	*6320 179	15.12 4.609	Mar. 22	2000	6230 176	15.04 4.584

Minimum daily discharge, 145 ft³/s (4.11 m³/s) July 24.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	350	800	592	467	743	1490	459	293	274	342	258
2	175	310	700	527	447	624	1070	482	278	505	280	247
3	180	290	600	560	438	564	981	431	253	465	511	232
4	172	280	540	897	442	801	1100	434	258	299	1130	228
5	170	270	500	656	449	1490	2490	405	256	266	498	227
6	172	260	600	594	431	1170	1890	393	243	253	327	227
7	202	250	700	1530	416	2020	1040	380	249	243	264	264
8	868	240	800	1090	410	1170	877	423	273	222	229	836
9	729	235	600	869	408	826	784	376	241	232	211	450
10	382	230	491	4850	405	715	725	350	220	229	206	334
11	260	234	462	2880	403	672	682	336	208	204	210	283
12	224	246	768	1120	404	689	651	333	273	193	220	257
13	280	278	1780	942	453	2180	620	325	400	190	250	237
14	380	254	982	966	481	1160	598	303	262	300	300	233
15	350	1520	970	1500	410	823	569	301	253	250	270	255
16	240	1660	1060	950	391	720	552	293	234	230	260	341
17	252	582	695	776	381	662	532	294	269	210	500	581
18	356	420	580	696	380	619	512	292	365	200	300	652
19	242	376	524	610	383	590	626	291	397	185	250	488
20	228	324	552	620	380	874	567	291	337	175	240	447
21	300	378	992	598	368	1050	506	346	271	165	230	387
22	400	360	602	558	366	5010	494	354	291	155	220	293
23	280	340	511	529	370	2720	529	351	1180	150	210	262
24	250	320	481	557	1280	1160	935	337	817	145	230	250
25	230	300	491	804	1330	936	724	437	370	150	600	241
26	220	350	2630	654	637	830	525	427	302	145	2500	235
27	210	600	1370	566	813	745	477	664	572	155	1000	308
28	200	1500	800	553	1450	700	449	428	381	200	500	484
29	190	1200	674	572	---	1190	423	372	286	500	350	354
30	300	1000	581	486	---	2800	441	331	264	1860	300	269
31	450	---	557	472	---	3670	---	312	---	621	265	---
TOTAL	9102	14957	24393	29574	14993	39923	23859	11551	10296	9371	13203	10160
MEAN	294	499	787	954	535	1288	795	373	343	302	426	339
MAX	868	1660	2630	4850	1450	5010	2490	664	1180	1860	2500	836
MIN	170	230	462	472	366	564	423	291	208	145	206	227
CFSM	.65	1.09	1.73	2.09	1.17	2.83	1.74	.82	.75	.66	.93	.74
IN.	.74	1.22	1.99	2.41	1.22	3.26	1.95	.94	.84	.76	1.08	.83

CAL YR 1976	TOTAL	271384	MEAN 741	MAX	21400	MIN 170	CFSM 1.63	IN 22.14
WTR YR 1977	TOTAL	211382	MEAN 579	MAX	5010	MIN 145	CFSM 1.27	IN 17.24

ALTAMAHA RIVER BASIN

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02204520 SOUTH RIVER AT SNAPPING SHOALS, GA.

LOCATION.--Lat 33°29'04", long 83°57'29", Newton-Henry County line, Hydrologic Unit 03070103, at bridge on State Highway 81, 0.2 mi (0.3 km) south of State Highway 212, and 0.5 mi (0.8 km) upstream from Snapping Shoals Creek.

DRAINAGE AREA.--465 mi² (1,200 km²).

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

REMARKS.--Natural flow of stream includes some flow diverted from the Chattahoochee River for municipal supply. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
18...	0920	460	7.0	9.0	13.5	6.3
NOV						
15...	1235	890	6.7	8.0	6.5	8.9
DEC						
20...	1035	530	6.7	11.5	8.5	8.8
JAN						
27...	1230	580	7.0	11.0	4.5	11.0
FEB						
28...	1025	1920	6.6	5.5	10.0	8.2
APR						
04...	1025	1020	7.1	19.0	16.0	6.3
MAY						
10...	0905	370	7.0	11.0	16.5	4.8
JUN						
13...	0945	515	6.8	28.0	23.0	2.6
JUL						
12...	0940	192	7.1	27.5	25.5	4.5
AUG						
16...	1000	260	6.4	31.5	25.0	5.5
SEP						
13...	0945	225	6.5	26.0	22.5	5.4

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	CON- FIRMED COLI- FORM (MPN)	HARD- NESS (CA, MG) (MG/L)
OCT							
18...	148	30	11	4.1	930	9300	26
NOV							
15...	103	45	48	8.4	93000	93000	20
DEC							
20...	96	10	14	--	430	43000	21
JAN							
27...	94	25	16	31	4300	--	23
FEB							
28...	68	160	175	7.7	150000	430000	17
APR							
04...	97	30	50	11	7500	--	23
MAY							
10...	109	20	14	4.0	150	--	23
JUN							
13...	182	90	32	6.2	4300	9300	26
JUL							
12...	597	--	18	2.0	150	--	--
AUG							
16...	146	--	100	--	--	--	--
SEP							
13...	147	--	35	4.0	150	--	--

ALTAMAHA RIVER BASIN

02204520 SOUTH RIVER AT SNAPPING SHOALS, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG)	TOTAL SODIUM (NA) (MG/L)	TOTAL PO- TAS- SIUM (K) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT 18...	7.0	2.3	17	4.1	30	12	12
NOV 15...	5.6	1.8	10	3.8	23	9.0	8.0
DEC 20...	5.6	1.8	8.9	2.6	23	--	6.5
JAN 27...	5.3	1.8	7.6	2.4	22	8.0	6.8
FEB 28...	5.8	2.0	4.6	2.3	15	10	4.5
APR 04...	6.2	2.0	7.5	2.5	20	14	6.5
MAY 10...	6.6	2.0	10	2.9	23	10	8.0
JUN 13...	7.4	2.1	20	4.7	39	17	15
JUL 12...	--	--	--	--	--	--	--
AUG 16...	--	--	--	--	--	--	--
SEP 13...	--	--	--	--	--	--	--

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL RESI- DUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 18...	11	116	2.0	<.02	1.2	860	140	10
NOV 15...	73	158	1.2	.50	1.1	2700	360	11
DEC 20...	7	92	1.1	.43	.54	1100	150	2.0
JAN 27...	11	82	.93	.85	.42	920	190	2.0
FEB 28...	252	322	.60	.15	.67	3400	420	14
APR 04...	61	140	.92	.41	.61	2500	240	7.0
MAY 10...	14	102	1.7	.23	.67	1100	240	3.0
JUN 13...	29	138	1.4	.17	1.8	1900	230	5.0
JUL 12...	3	132	2.5	.07	1.4	--	--	1.6
AUG 16...	128	255	1.7	<.02	.99	--	--	2.0
SEP 13...	5	132	1.9	.03	1.2	--	--	4.0

ALTAMAHA RIVER BASIN

91

02205000 WILDCAT CREEK NEAR LAWRENCEVILLE, GA.

LOCATION.--Lat 34°00'08", long 84°00'18", Gwinnett County, Hydrologic Unit 03070103, on left bank 75 ft (23 m) upstream from highway bridge, 0.7 mi (1.1 km) upstream from mouth, 1.1 mi (1.8 km) east of State Highway 20, and 3.2 mi (5.1 km) north of Lawrenceville.

DRAINAGE AREA.--1.59 mi² (4.12 km²).

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 970 ft (926 m), by barometer.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--24 years, 1.68 ft³/s (47.6 l/s), 14.35 in/yr (364.5 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 806 ft³/s (22.8 m³/s) May 6, 1956, gage height, 8.20 ft (2.499 m), from rating curve extended above 45 ft³/s (1.27 m³/s), on basis of slope-area measurement at gage height, 4.95 ft (1.509 m) and slope-area estimate at gage height, 8.20 ft (2.499 m); no flow for part of each day Sept. 1-6, Oct. 7, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 60 ft³/s (1.70 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 9	1700	*78 2.21	4.22 1.286

Minimum daily discharge, 0.08 ft³/s (0.002 m³/s) July 20, 25.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.22	.55	.90	1.4	1.4	1.8	3.5	1.2	.68	.80	.20	.10
2	.20	.55	.76	1.4	1.5	1.6	2.9	1.2	.59	.55	.62	.10
3	.19	.53	.71	1.8	1.4	1.6	6.2	1.5	.51	.34	.46	.10
4	.19	.55	.65	1.8	1.4	3.2	5.9	1.5	.47	.28	.36	.17
5	.19	.60	.64	1.7	1.3	2.1	11	1.1	.45	.25	.29	.17
6	.24	.59	1.6	2.9	1.2	4.0	4.1	.99	.48	.23	.24	.15
7	1.5	.60	2.1	4.4	1.2	5.5	3.2	.96	.54	.18	.24	1.7
8	1.8	.60	1.1	2.3	1.3	2.9	2.7	.92	.46	.14	.24	.60
9	1.4	.60	.88	18	1.2	2.4	2.3	.84	.35	.13	.21	.38
10	.47	.60	.80	8.0	1.2	2.1	2.1	.78	.40	.13	.18	.33
11	.37	.57	.84	3.4	1.2	2.1	2.0	.72	.36	.11	.18	.30
12	.33	.53	2.1	2.8	1.7	5.3	1.8	.70	.38	.10	.22	.25
13	.33	.50	1.5	2.4	2.7	5.0	1.7	.66	.33	.10	.19	.32
14	.33	.79	1.0	5.4	1.6	3.3	1.6	.63	.38	.10	.18	.32
15	.31	2.1	.98	3.6	1.4	2.1	1.5	.60	.37	.09	.16	.29
16	.33	.76	1.5	2.5	1.3	2.0	1.5	.55	.61	.09	.16	.69
17	.60	.66	1.6	2.2	1.2	1.9	1.5	.51	.55	.09	.18	.57
18	.48	.58	1.5	1.9	1.2	1.8	1.6	.51	.59	.09	.21	.50
19	.45	.55	1.3	2.0	1.2	1.7	1.9	.50	.44	.10	.18	.51
20	1.4	.57	4.0	1.8	1.2	1.8	1.8	.44	.40	.08	.18	.43
21	.54	.56	2.2	1.6	1.2	9.2	1.8	.47	.37	.08	.16	.31
22	.51	.51	1.7	1.6	1.2	6.9	1.8	1.1	.31	.08	.13	.28
23	.50	.50	1.5	1.6	1.2	3.4	4.2	.91	.35	.08	.17	.27
24	.50	.50	1.4	1.9	5.5	2.7	3.8	.82	.32	.08	.16	.27
25	1.1	.50	4.0	2.1	2.1	2.3	1.8	.86	.26	.08	.18	.29
26	.62	.65	4.3	2.4	1.8	2.1	1.5	4.7	.33	.40	.18	.45
27	.51	1.8	2.2	2.2	3.0	2.0	1.4	3.6	.35	.16	.17	.38
28	.50	7.3	1.9	2.3	2.0	2.0	1.2	1.9	.28	.26	.14	.32
29	.53	4.0	1.8	1.9	---	4.6	1.2	1.1	.25	.62	.13	.29
30	1.4	1.3	1.7	1.7	---	13	1.2	.89	.32	.31	.12	.36
31	.92	---	1.6	1.5	---	5.1	---	.78	---	.23	.11	---
TOTAL	18.96	31.00	50.76	92.5	45.8	107.5	80.7	33.94	12.48	6.36	6.53	11.20
MEAN	.61	1.03	1.64	2.98	1.64	3.47	2.69	1.09	.42	.21	.21	.37
MAX	1.8	7.3	4.3	18	5.5	13	11	4.7	.68	.80	.62	1.7
MIN	.19	.50	.64	1.4	1.2	1.6	1.2	.44	.25	.08	.11	.10
CFSM	.38	.65	1.03	1.87	1.03	2.18	1.69	.69	.26	.13	.13	.23
IN.	.44	.72	1.19	2.16	1.07	2.51	1.89	.79	.29	.15	.15	.26
CAL YR 1976	TOTAL 787.14	MEAN 2.15	MAX 62	MIN .12	CFSM 1.35	IN 18.40						
WTR YR 1977	TOTAL 497.73	MEAN 1.36	MAX 18	MIN .08	CFSM .86	IN 11.64						

ALTAMAHA RIVER BASIN

02206500 YELLOW RIVER NEAR SNELLVILLE, GA.

LOCATION.--Lat 33°51'11", long 84°04'45", Gwinnett County, Hydrologic Unit 03070103, at county highway bridge, 3.2 mi (5.1 km) west of Snellville, 4 mi (6.4 km) downstream from Sweetwater Creek, 6.5 mi (10.5 km) northeast of town of Stone Mountain, and 7.5 mi (12.1 km) upstream from Stone Mountain Creek.

DRAINAGE AREA.--134 mi² (347 km²).

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Water-discharge records for the water years 1943-71 are published in reports of the Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
06...	1140	32	7.1	22.0	17.0	8.3
NOV						
08...	1000	50	7.6	8.0	5.0	11.1
DEC						
15...	1400	480	6.7	10.0	6.0	10.8
FEB						
24...	1415	560	7.0	17.0	10.0	10.6
MAR						
28...	0920	200	6.8	19.0	13.0	9.6
MAY						
26...	0900	88	7.2	23.5	18.5	7.7
AUG						
22...	0800	24	7.2	23.0	21.0	7.3

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (FC BROTH) (MPN)
OCT					
06...	86	25	12	.8	290
NOV					
08...	75	30	6	1.1	161
DEC					
15...	59	50	80	1.8	4300
FEB					
24...	51	200	370	6.0	12000
MAR					
28...	58	30	24	1.1	210
MAY					
26...	72	30	21	.9	1500
AUG					
22...	109	--	46	1.2	2300

DATE	HARD- NESS (CA+MG) (MG/L)	ALKA- LITY AS CaCO ₃ (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT						
06...	24	27	.52	<.02	.18	6.0
NOV						
08...	23	26	.39	<.02	.09	8.0
DEC						
15...	18	19	.29	.06	.16	3.0
FEB						
24...	14	14	.37	.16	.55	12
MAR						
28...	16	19	.31	<.02	.07	1.0
MAY						
26...	20	25	.59	.02	.11	3.0
AUG						
22...	--	--	.77	<.02	.24	2.0

ALTAMAHA RIVER BASIN

93

02207300 YELLOW RIVER AT MILSTEAD, GA.

LOCATION.--Lat 33°41'23", long 83°58'43", Rockdale County, Hydrologic Unit 03070103, at bridge on State Highway 20 at Milstead, 2.2 mi (3.5 km) northeast of Conyers.

DRAINAGE AREA.--210 mi² (540 km²), approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA. WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT 06...	1245	65	7.0	21.5	17.0	7.5
NOV 08...	1100	108	7.5	4.0	6.0	10.4
DEC 15...	1210	538	7.1	10.5	6.0	10.3
JAN 18...	1100	381	6.9	-4.0	.0	13.4
FEB 24...	1300	516	7.2	17.0	10.0	11.1
MAR 28...	1030	429	7.0	21.5	13.0	9.3
MAY 26...	1000	171	7.2	20.5	19.5	7.5
JUN 22...	1345	108	7.2	32.5	24.5	6.1
JUL 26...	1255	60	7.2	30.5	24.5	5.4
AUG 22...	1015	64	7.0	26.5	23.5	6.2
SEP 19...	1115	184	7.0	26.0	25.0	6.4

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	RIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	CON- FIRMED COLI- FORM (MPN)	HARD- NESS (CA, MG) (MG/L)
OCT 06...	72	15	18	.8	340	3600	20
NOV 08...	66	25	8	.7	930	930	19
DEC 15...	53	35	21	1.0	280	6400	14
JAN 18...	51	30	22	.8	2300	23000	14
FEB 24...	50	40	66	2.1	660	5700	14
MAR 28...	51	25	23	.9	230		14
MAY 26...	62	25	16	1.1	160	2300	18
JUN 22...	67	30	18	.6	430	930	19
JUL 26...	77	--	26	.8	930	9300	--
AUG 22...	87	--	26	.9	930	2300	--
SEP 19...	67	--	108	1.2	4300	9300	--

ALTAMAHA RIVER BASIN

02207300 YELLOW RIVER AT MILSTEAD, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT							
06...	23	.25	.03	.09	1000	230	2.0
NOV							
08...	23	.23	.04	.03	730	150	7.0
DEC							
15...	16	.26	.02	.07	1100	110	2.0
JAN							
18...	14	.31	.06	.05	97	120	2.0
FEB							
24...	16	.07	.02	.11	2000	210	5.0
MAR							
28...	16	.28	<.02	.06	940	110	1.0
MAY							
26...	21	.39	<.02	.05	910	100	2.0
JUN							
22...	23	.31	<.02	.05	740	125	2.3
JUL							
26...	--	.17	<.02	.07	--	--	4.0
AUG							
22...	--	.72	<.02	.05	--	--	1.0
SEP							
19...	--	.65	<.02	.11	--	--	4.0

02207500 YELLOW RIVER NEAR COVINGTON, GA.

LOCATION.--Lat 33°36'52", long 83°54'54", Newton County, Hydrologic Unit 03070103, at downstream end of left bank pier of bridge on State Highway 12, 50 ft (15 m) downstream from Interstate Highway 20, 0.2 mi (0.3 km) downstream from Georgia Railroad bridge, 0.5 mi (0.8 km) downstream from Gum Creek, and 3.5 mi (5.6 km) northwest of Covington.

DRAINAGE AREA.--378 mi² (979 km²).

PERIOD OF RECORD.--September to December 1897, May 1899 to December 1901, July 1944 to September 1960, October 1975 to current year. Published as "at Almon", 1897-1901. Water years 1961-65 (annual maximum only).

REVISED RECORDS.--WSP 1112: 1945(M), 1946. WSP 1624: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 616.99 ft (188.06 m) above mean sea level. September to December 1897, staff gage at about same site at different datum. May 1899 to December 1901, staff gage at site 1 mi (1.6 km) upstream at different datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--20 years (1899-1901, 1944-60, 1975-77), 466 ft³/s (13.2 m³/s), 16.72 in/yr (424.7 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,200 ft³/s (459 m³/s) Nov. 29, 1948, gage height, 20.3 ft (6.19 m); minimum daily, 10 ft³/s (0.28 m³/s) Oct. 7, 1954.

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)
Jan. 11	1200	*3570 101	11.72 3.572

Minimum daily discharge, 67 ft³/s (1.90 m³/s) July 24.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	144	240	667	470	401	663	1900	341	208	114	180	94
2	131	228	503	422	386	539	1090	338	189	185	161	88
3	115	204	425	409	383	479	929	331	172	242	269	85
4	117	188	378	530	385	604	1110	334	160	162	403	86
5	96	178	348	513	389	888	1630	343	151	134	278	94
6	102	173	338	461	366	826	2410	311	144	119	198	92
7	121	169	695	667	339	1140	1490	295	149	110	163	131
8	390	167	812	954	328	1210	979	295	140	101	146	334
9	567	167	573	709	323	849	803	277	140	101	133	268
10	430	165	462	1910	321	693	695	256	135	93	264	189
11	266	165	420	3430	320	635	634	238	127	89	181	154
12	204	172	545	2350	323	646	589	231	129	87	140	135
13	176	176	912	1060	368	1310	550	229	125	80	124	123
14	162	141	801	845	446	1400	507	223	122	82	115	117
15	153	743	765	1170	385	912	480	217	129	97	125	123
16	144	1120	980	1190	346	736	457	212	126	87	114	132
17	148	569	759	849	324	639	434	207	165	82	121	209
18	165	406	590	651	315	588	416	202	216	83	122	277
19	162	341	510	611	315	559	436	204	245	82	122	243
20	172	304	515	609	309	635	468	201	179	76	119	210
21	254	278	782	549	297	751	428	194	149	78	117	219
22	215	254	682	497	287	2380	406	193	137	75	120	167
23	178	232	536	460	289	3230	431	191	172	73	109	144
24	163	224	473	444	565	1710	648	230	177	67	105	132
25	163	222	443	521	894	998	647	231	166	74	109	126
26	212	225	1130	545	598	806	462	234	140	80	136	124
27	240	282	1390	525	616	696	396	313	147	87	144	137
28	197	621	884	518	898	641	368	391	124	176	142	166
29	174	1350	672	529	---	871	346	306	114	378	122	167
30	170	1220	566	462	---	1310	340	254	110	403	108	148
31	232	---	509	416	---	2310	---	230	---	233	99	---
TOTAL	6163	11044	20065	25276	11516	31654	22479	4052	4587	3930	4789	4714
MEAN	199	368	647	815	411	1021	749	260	153	127	154	157
MAX	567	1350	1390	3430	898	3230	2410	391	245	403	403	334
MIN	96	165	338	409	287	479	340	191	110	67	99	85
CFSM	.53	.47	1.71	2.16	1.09	2.70	1.98	.69	.41	.34	.41	.42
IN.	.61	1.49	1.97	2.49	1.13	3.12	2.21	.79	.45	.39	.47	.46

DAY	YR 1976	TOTAL	219475	MEAN 600	MAX	11000	MIN 78	CFSM 1.59	IN 21.60
WTR	YR 1977	TOTAL	154269	MEAN 423	MAX	3430	MIN 67	CFSM 1.12	IN 15.18

ALTAMAHA RIVER BASIN

02207540 YELLOW RIVER AT PORTERDALE, GA.

LOCATION.--Lat 33°34'17", long 83°53'50", Newton County, Hydrologic Unit 03070103, at bridge on State Highway 81 at Porterdale, 0.7 mi (1.1 km) down- stream from Beaverdam Creek.

DRAINAGE AREA.--400 mi² (1,040 km²), approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey

WATER QUALITY DATA. WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
18...	0825	220	6.9	9.0	14.0	8.2
NOV						
15...	1110	747	6.7	6.0	7.5	10.7
DEC						
20...	0940	520	7.2	10.5	8.0	10.8
JAN						
27...	1205	627	7.1	9.0	4.0	12.8
FEB						
28...	0935	982	6.9	5.0	8.0	10.0
APR						
04...	0930	1180	7.1	19.0	16.0	8.7
MAY						
10...	0815	314	7.0	10.0	14.5	8.1
JUN						
13...	0900	156	7.1	25.0	23.5	5.8
JUL						
12...	0830	93	7.0	27.5	26.0	5.4
AUG						
16...	0850	114	7.0	28.5	25.0	6.4
SEP						
13...	0850	140	6.5	24.5	23.0	6.4

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	HIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	CON- FIRMED COLI- FORM (MPN)	HARD- NESS (CA, MG) (MG/L)
OCT							
18...	58	40	15	.8	430	4300	16
NOV							
15...	46	100	74	3.8	9300	230000	11
DEC							
20...	50	20	13	--	2300	4300	12
JAN							
27...	50	25	14	.6	430	930	12
FEB							
28...	45	50	54	1.1	930	9300	12
APR							
04...	48	80	84	1.3	4300	43000	13
MAY							
10...	53	30	25	.8	930	930	13
JUN							
13...	62	45	16	.6	930	4300	15
JUL							
12...	74	--	24	.9	750	15000	--
AUG							
16...	67	--	33	--	--	--	--
SEP							
13...	62	--	120	.2	230	4300	--

02207540 YELLOW RIVER AT PORTERDALE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	ALKA- LITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 18...	19	.27	.06	.06	920	80	6.0
NOV 15...	12	.14	<.02	.11	2600	160	7.0
DEC 20...	15	.35	.02	.03	1100	130	<1.0
JAN 27...	14	.40	.09	.04	660	80	1.0
FEB 28...	12	.28	<.02	.09	1700	130	3.0
APR 04...	13	.29	<.02	.08	3400	170	4.0
MAY 10...	17	.43	<.02	.07	1100	120	3.0
JUN 13...	20	.42	<.02	.05	810	150	1.0
JUL 12...	--	.33	.02	.06	--	--	<1.0
AUG 16...	--	.37	<.02	.05	--	--	<1.0
SEP 13...	--	.29	<.20	.07	--	--	3.0

ALTAMAHA RIVER BASIN

02208005 YELLOW RIVER NEAR STEWART, GA.

LOCATION.--Lat 33°26'26", long 83°52'43", Newton County, Hydrologic Unit 03070103, at bridge on State Highway 212, 2.5 mi (4.0 km) northwest of Stewart.

DRAINAGE AREA.--440 mi² (1,140 km²), approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA. WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
18...	0950	170	7.1	10.5	13.5	8.7
NOV						
15...	1300	700	6.6	8.5	6.0	10.8
DEC						
20...	1110	590	7.2	12.0	8.0	10.9
JAN						
27...	1250	670	7.2	9.5	3.5	13.0
FEB						
28...	1045	1050	7.2	6.5	9.0	10.5
APR						
04...	1050	1250	7.0	19.0	15.5	9.4
MAY						
10...	0940	325	7.2	12.0	17.0	8.2
JUN						
13...	1010	155	7.3	29.0	23.5	6.6
JUL						
12...	1000	105	7.2	28.5	26.5	6.0
AUG						
16...	1120	150	6.9	31.0	25.0	7.1
SEP						
13...	1015	155	6.4	27.0	22.5	7.0

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INIM- CORALY UNITS)	TUR- BID- ITY (JTU)	RIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA.MG) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT												
18...	64	40	15	.7	2300	16	20	--	.37	.08	.25	3.0
NOV												
15...	56	65	80	4.6	4300	14	18	--	.31	.04	1.1	11
DEC												
20...	50	30	15	--	150	13	15	--	.38	<.02	.11	2.0
JAN												
27...	51	25	14	.9	230	12	14	--	.40	.05	.09	1.0
FEB												
28...	46	70	62	1.3	4300	12	13	--	.36	.02	.22	6.0
APR												
04...	46	40	35	1.2	230	12	14	--	.30	<.02	.08	3.0
MAY												
10...	59	20	20	1.0	930	14	19	--	.55	<.02	.15	2.0
JUN												
13...	67	35	17	.8	930	16	21	--	.50	<.02	.17	<1.0
JUL												
12...	78	--	22	.8	230	--	--	12	.39	<.02	.14	3.5
AUG												
16...	73	--	35	--	--	--	--	40	.49	<.02	.18	1.0
SEP												
13...	65	--	112	.4	430	--	--	37	.40	<.02	.18	3.0

02208450 ALCOVY RIVER ABOVE COVINGTON, GA.

LOCATION.--Lat 33°38'24", long 83°46'45", Newton County, Hydrologic Unit 03070103, at right bank on city of Covington water works intake structure, 400 ft (122 m) upstream from bridge on Alcovy Road, 600 ft (183 m) upstream from Georgia Railroad trestle, and 6 mi (10 km) northeast of Covington.

DRAINAGE AREA.--185 mi² (479 km²), approximately.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 650 ft (198 m), from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--5 years, 288 ft³/s (81.6 m³/s), 21.14 in/yr (537.0 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,530 ft³/s (185 m³/s) Mar. 16, 1976, gage height, 14.79 ft (4.508); minimum daily, 25 ft³/s (.71 m³/s) Sept. 17, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,800 ft³/s (51.0 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Jan. 11	0400	*1240 35.1	8.90 2.713

Minimum discharge, 30 ft³/s (0.85 m³/s) July 22, 23, 25, 26, gage height, 3.02 ft (0.920 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	153	455	266	233	381	689	177	139	70	364	47
2	79	139	359	241	223	317	612	176	112	80	167	43
3	68	114	259	233	216	284	486	171	98	91	316	40
4	63	107	222	269	216	284	447	166	90	79	399	40
5	55	99	200	276	220	388	607	163	86	65	271	62
6	54	95	193	260	214	431	782	161	81	59	166	61
7	67	93	304	337	203	457	827	151	82	52	119	57
8	164	90	412	385	195	457	619	145	74	49	97	101
9	386	89	372	405	189	452	463	137	71	48	84	157
10	404	86	300	863	185	397	386	127	65	43	95	115
11	257	86	251	1230	185	337	343	118	62	35	96	83
12	154	93	317	1170	186	319	314	115	70	35	75	68
13	110	96	447	829	200	420	290	112	70	34	63	57
14	98	97	419	498	217	599	269	110	60	35	58	53
15	90	301	400	533	214	556	254	107	57	39	58	56
16	83	630	437	543	195	418	238	104	57	40	56	75
17	91	571	416	500	183	339	226	98	81	37	54	144
18	98	335	363	450	177	302	216	93	156	38	63	125
19	93	221	300	400	175	280	209	91	130	40	98	114
20	102	177	286	350	177	329	242	94	97	39	90	105
21	126	159	335	330	170	389	217	97	80	35	76	100
22	129	145	335	320	165	865	205	96	78	32	73	84
23	110	128	309	310	163	1150	206	95	121	31	65	70
24	98	122	271	305	258	936	250	94	118	35	58	63
25	98	122	264	300	371	600	292	101	97	34	54	61
26	122	122	510	295	345	443	263	118	81	33	54	59
27	126	156	561	291	327	369	220	146	75	37	81	62
28	111	253	482	288	377	373	194	181	71	63	92	87
29	98	400	407	284	---	388	179	215	63	163	71	89
30	98	518	329	261	---	526	176	206	63	243	57	82
31	126	---	291	241	---	644	---	200	---	176	52	---
TOTAL	3852	5887	10806	13263	6179	14410	10721	4165	2585	1890	3522	2360
MEAN	124	196	349	424	221	465	357	134	86.2	61.0	114	78.7
MAX	404	630	561	1230	377	1150	827	215	156	243	399	157
MIN	54	86	193	233	163	280	176	91	57	31	52	40
CFSM	.67	1.06	1.89	2.31	1.20	2.51	1.93	.72	.47	.33	.62	.43
IN.	.77	1.18	2.17	2.67	1.24	2.90	2.16	.84	.52	.38	.71	.47

CAL YR 1976	TOTAL	102957	MEAN 281	MAX 5090	MIN 44	CFSM 1.52	IN 20.70
WTR YR 1977	TOTAL	79640	MEAN 218	MAX 1230	MIN 31	CFSM 1.18	IN 16.01

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: May 1972 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 28.0°C July 8, 9, 13-15, 1977; minimum, 0.0°C Jan. 10, 19, 20, 1976, Jan. 12, 17, 1977.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 28.0°C July 8, 9, 13-15; minimum, 0.0°C Jan. 12, 17.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	18.5	16.0	11.0	9.0	4.5	2.5	4.0	2.0	3.0	1.0	10.5	6.5
2	19.0	16.5	10.5	8.0	5.0	2.0	2.0	1.0	3.5	1.0	11.0	7.0
3	19.0	16.5	10.0	7.5	5.5	3.0	2.5	1.0	2.5	1.0	11.5	8.5
4	18.5	16.5	10.0	7.5	6.0	3.5	4.0	2.5	5.0	1.5	13.5	10.5
5	19.5	17.0	8.5	7.0	6.0	3.5	6.0	4.0	6.0	3.5	12.5	11.5
6	18.5	17.5	8.0	5.5	6.0	6.0	5.5	4.5	5.0	2.5	11.5	11.0
7	19.5	18.5	9.0	6.0	7.0	6.0	6.0	4.5	4.5	2.0	13.5	10.0
8	20.0	19.5	8.0	6.5	6.5	3.0	5.0	3.0	4.5	1.5	12.5	8.5
9	19.5	16.0	7.5	5.0	5.0	3.0	4.0	3.5	5.0	1.5	12.5	9.0
10	16.0	14.5	9.5	6.0	7.0	5.5	4.0	2.5	6.0	2.0	12.5	10.0
11	15.5	13.5	10.5	7.5	---	---	2.5	.5	6.5	3.5	13.0	11.5
12	15.0	13.0	11.0	9.5	---	---	1.0	.0	7.5	5.5	15.0	13.0
13	15.0	12.5	10.0	8.5	---	---	3.0	.5	10.0	7.5	17.5	13.5
14	15.5	13.5	8.5	7.5	---	---	3.5	3.0	10.0	6.0	17.0	13.5
15	15.5	13.0	7.5	6.5	---	---	5.0	2.5	9.5	7.0	18.0	13.0
16	15.5	13.5	8.0	7.0	---	---	4.0	2.5	7.5	5.0	20.0	16.0
17	15.5	15.0	9.0	8.0	---	---	1.0	.0	6.5	3.5	17.0	14.5
18	15.5	13.5	10.0	7.0	9.5	7.0	1.0	.5	8.0	4.0	17.5	15.0
19	13.5	11.5	10.5	8.0	9.5	7.0	1.0	.5	10.0	6.0	18.0	15.5
20	13.5	12.0	11.0	10.0	9.5	8.0	1.0	.5	9.0	7.0	18.0	15.0
21	12.5	11.0	11.0	9.5	7.5	3.5	1.0	.5	8.0	5.0	15.0	12.5
22	11.5	9.5	9.5	7.0	3.0	1.5	1.0	.5	8.5	4.0	14.0	12.0
23	12.0	9.5	7.0	5.0	3.0	1.0	1.5	.5	10.0	6.0	12.5	10.5
24	12.5	11.0	7.0	5.0	3.5	1.5	1.5	1.0	13.0	9.5	14.0	10.5
25	13.5	12.5	7.5	5.0	3.0	1.5	2.5	1.0	13.5	8.0	17.0	12.5
26	14.5	13.5	8.0	7.0	5.0	3.0	3.5	1.0	14.5	10.0	17.0	13.0
27	13.5	12.5	10.5	8.0	5.0	3.0	6.0	2.5	13.5	11.0	17.5	14.0
28	12.0	10.0	13.0	10.5	6.5	4.5	7.0	2.5	11.5	8.5	17.5	15.0
29	10.5	8.0	13.0	7.5	6.0	4.0	4.0	1.0	---	---	17.5	16.0
30	10.5	9.5	7.5	4.0	5.0	3.0	2.5	.5	---	---	18.0	17.5
31	11.0	10.5	---	---	6.5	4.0	3.5	1.0	---	---	20.0	17.0
MONTH	20.0	8.0	13.0	4.0	9.5	1.0	7.0	.0	14.5	1.0	20.0	6.5

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TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

[illegible]

ALTAMAHA RIVER BASIN

02209260 ALCOVY RIVER ABOVE STEWART, GA.

LOCATION.--Lat 33°26'58", long 83°49'42", Newton County, Hydrologic Unit 03070103, at bridge on Newton Factory Bridge Road, 2.6 mi (4.2 km) northeast of Stewart.

DRAINAGE AREA.--250 mi² (650 km²), approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT					
18...	1025	6.8	11.0	13.5	9.3
NOV					
15...	1325	6.8	8.0	6.5	11.0
DEC					
20...	1225	7.0	12.0	7.5	11.2
JAN					
26...	1310	6.8	10.5	2.5	13.5
FEB					
28...	1110	7.0	9.5	10.0	10.3
APR					
04...	1115	7.0	20.0	17.0	8.8
MAY					
10...	1000	7.0	11.0	17.0	8.2
JUN					
13...	1030	7.1	28.0	22.5	7.6
JUL					
12...	1040	7.3	29.0	25.5	6.8
AUG					
16...	1225	7.2	30.0	25.0	7.7
SEP					
12...	1405	6.6	28.5	23.5	7.9

DATE	SPF- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COI OP (PLAT- INUM- CORALY UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC PROTH)	HARD- NESS (CA+MG) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT												
18...	50	50	17	.8	161	12	18	--	.21	<.02	.04	4.0
NOV												
15...	49	35	11	1.0	230	10	19	--	.17	<.02	.05	3.0
DEC												
20...	41	40	15	--	261	9	12	--	.26	<.02	.03	1.0
JAN												
26...	42	25	9	.8	<30	9	12	--	.37	.07	.03	1.0
FEB												
28...	41	50	23	.8	91	9	12	--	.22	<.02	.05	2.0
APR												
04...	41	50	23	1.0	133	11	14	--	.21	.03	.03	4.0
MAY												
10...	47	50	22	.5	230	12	16	--	.52	<.02	.06	2.0
JUN												
13...	54	60	23	1.0	150	12	18	--	.44	<.02	.05	1.5
JUL												
12...	62	--	23	.7	230	--	--	11	.32	<.02	.05	6.0
AUG												
16...	61	--	25	--	--	--	--	50	.37	<.02	.03	1.0
SEP												
12...	49	--	36	.4	90	--	--	21	.20	<.02	.06	4.0

02210500 OCMULGEE RIVER NEAR JACKSON, GA.

LOCATION.--Lat 33°18'27", long 83°50'18", Butts-Jasper County line, Hydrologic Unit 03070103, on right bank 500 ft (152 m) upstream from bridge on State Highway 16, 0.5 mi (0.8 km) upstream from Yellow Water Creek, 1 mi (1.6 km) downstream from Lloyd Shoals Dam, and 7 mi (11 km) east of Jackson.

DRAINAGE AREA.--1,420 mi² (3,680 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1906 to September 1915, August 1939 to September 1960, October 1975 to current year. Water years 1920, 1961-65 (annual maximum only).

GAGE.--Water-stage recorder. Datum of gage is 419.29 ft (127.80 m) above mean sea level. Prior to Jan. 1, 1913, staff gage, Jan. 1 to Dec. 31, 1913, water-stage recorder, Jan. 1, 1914 to Dec. 31, 1915, staff gage, and August 1939 to September 1960, water-stage recorder, all at present site and datum.

REMARKS.--Records good. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin," station 02210000.)

AVERAGE DISCHARGE.--32 years (1906-15, 1939-60, 1975-77), 1,721 ft³/s (48.7 m³/s), 16.46 in/yr (418.1 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,600 ft³/s (1,600 m³/s) Nov. 28, 1948, gage height, 23.9 ft (7.28 m); minimum daily, 18 ft³/s (0.51 m³/s) Nov. 20, 1910.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 26.8 ft (8.17 m) Dec. 11, 1919, from graph based on gage readings, discharge, 69,000 ft³/s (1,950 m³/s), by computation of flow over dam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,600 ft³/s (329 m³/s) Mar. 23, gage height, 9.24 ft (2.816 m); minimum daily, 580 ft³/s (16.4 m³/s) Feb. 22.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	700	1100	2880	2640	2550	2510	6840	595	662	1480	1590	732
2	784	772	2640	2630	2540	2500	5380	1770	825	835	695	784
3	772	760	2330	2050	2530	2490	4610	1720	898	770	3370	783
4	738	760	784	2160	1310	2020	3530	1550	1200	772	5060	792
5	772	777	1250	2660	1760	2640	4590	1580	673	774	3330	787
6	784	694	2070	2680	664	3910	4650	1290	1630	783	725	773
7	796	683	2590	2690	1840	3880	4700	603	669	791	1470	762
8	1850	892	2590	2700	1870	2820	3800	605	682	801	679	1800
9	3020	672	2090	2710	1830	2800	2860	733	683	800	683	787
10	1050	630	2670	2790	1120	2790	2860	598	696	803	699	727
11	2330	661	2560	4160	1390	2790	2860	613	701	801	696	751
12	2290	640	2310	7050	1110	2930	2840	633	707	804	655	1290
13	1920	640	3010	5420	841	4760	2710	1360	695	863	679	887
14	1850	640	3130	3020	1910	4560	2700	622	693	763	715	889
15	738	661	3080	3810	1120	2860	776	625	692	746	705	740
16	716	2180	3070	3700	1890	2800	651	977	697	754	702	742
17	738	3020	3070	2960	1890	2790	1090	1370	717	759	727	750
18	1060	2470	3050	2940	943	2770	1150	624	735	749	727	758
19	738	1130	3040	2920	625	2770	1450	612	699	779	727	1490
20	1160	2050	3020	2660	601	2060	1380	645	1520	743	723	722
21	1040	2310	3000	2510	600	2290	1380	633	990	802	734	726
22	1000	1500	3000	2510	580	4470	1870	639	1290	802	1430	1940
23	727	1450	2980	2510	1500	10500	2000	950	719	787	717	1420
24	727	1100	2780	2520	1880	6330	1900	649	1270	785	719	708
25	716	844	1520	2420	2240	4680	1980	645	706	788	725	705
26	716	1990	2820	1980	2510	3400	1850	869	739	780	789	696
27	727	1500	3130	2010	2520	2840	1790	1160	1470	772	1030	722
28	916	1810	3120	1320	2510	2820	1720	1850	743	773	1540	733
29	904	2790	3110	1050	---	3480	1750	851	764	873	809	708
30	716	2980	3070	1930	---	4660	1800	646	807	2200	1530	746
31	705	---	2880	2040	---	5470	---	1280	---	1050	737	---
TOTAL	33700	40146	82644	87150	44674	110390	79467	29297	25972	26782	36117	26450
MFAN	1087	1338	2666	2811	1596	3561	2649	945	866	864	1165	882
MAX	3020	3020	3130	7050	2550	10500	6840	1850	1630	2200	5060	1940
MIN	700	670	784	1050	580	2020	651	595	662	743	655	687
MEAN†	872	1671	2630	2897	1641	3691	2451	1039	883	831	1149	751
CFSM†	.61	1.18	1.85	2.04	1.16	2.60	1.73	.73	.62	.59	.81	.53
IN†	.70	1.32	2.13	2.35	1.21	3.00	1.93	.84	.69	.68	.93	.59

CAL YR 1976 TOTAL 812111 MEAN 2219 MAX 36500 MIN 601 MEAN+ 2232 CFSM+ 1.57 IN+ 21.40
WTR YR 1977 TOTAL 622789 MEAN 1706 MAX 10500 MIN 580 MEAN+ 1712 CFSM+ 1.21 IN+ 16.37

† Adjusted for change in contents in Lloyd Shoals Reservoir.

ALTAMAHA RIVER BASIN

02210500 OCMULGEE RIVER NEAR JACKSON, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
18...	1140	3180	7.1	13.5	18.0	5.8
NOV						
15...	1430	1180	6.9	9.0	10.5	7.2
DEC						
20...	1300	3020	6.9	12.0	7.0	9.1
JAN						
26...	1120	2550	6.8	3.5	2.0	12.9
FEB						
28...	1145	2410	7.2	11.5	8.0	11.4
APR						
04...	1240	2900	6.8	21.5	15.5	7.0
MAY						
10...	1130	620	7.0	17.5	17.5	4.8
JUN						
13...	1115	730	6.7	29.0	22.5	1.8
JUL						
12...	1230	796	6.9	32.0	26.0	2.5
AUG						
16...	1400	705	6.6	28.0	25.0	2.1
SEP						
12...	1330	705	6.4	28.5	26.0	2.2

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT												
18...	77	<5	6	2.0	<30	16	20	8	.35	.15	.12	6.0
NOV												
15...	81	8	6	2.0	<33	17	21	8	.57	.18	.11	4.0
DEC												
20...	61	40	18	--	230	14	16	5	.94	.17	.15	1.0
JAN												
26...	55	75	26	.9	91	12	12	5	.44	.20	.12	2.0
FEB												
28...	67	20	12	1.6	63	15	17	5	.68	.19	.21	1.0
APR												
04...	49	80	52	1.3	430	12	13	11	.40	.08	.17	4.0
MAY												
10...	65	20	7	1.5	<30	16	18	4	.63	.15	.09	3.0
JUN												
13...	77	15	8	1.2	<30	17	20	6	.79	<.02	.12	1.5
JUL												
12...	90	--	13	1.6	40	--	--	5	.17	.43	.13	3.0
AUG												
16...	--	--	16	--	--	73	--	8	.42	.11	.10	2.0
SEP												
12...	86	--	17	1.6	30	--	--	9	.15	.57	.15	4.0

02211459 BIG TOWALIGA CREEK NEAR BARNESVILLE, GA.

LOCATION.--Lat 33°04'20", long 84°11'04", Lamar County, Hydrologic Unit 03070103, on right bank 26 ft (7.9 m) upstream from culvert on county road, 2.1 mi (3.4 km) northwest of Barnesville, and 6.2 mi (10.0 km) upstream from Little Towaliga River.

DRAINAGE AREA.--2.36 mi² (6.11 km²).

PERIOD OF RECORD.--Annual maximum, water years 1969-74, October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 695 ft (212 m), from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 483 ft³/s (13.7 m³/s) Mar. 2, 1971, gage height, 6.69 ft (2.039 m); minimum daily, 0.62 ft³/s (0.018 m³/s) Aug. 24, 25, 1976.

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)
July 26	1845	*236 6.68	5.26 1.603	Sept. 17	1700	230 6.51	5.19 1.582
Aug. 3	1345	201 5.69	4.99 1.521				

Minimum daily, 0.72 ft³/s (0.020 m³/s) July 13-17, 20-22, 24, 25.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	4.2	3.0	2.8	3.5	3.4	5.2	2.4	1.3	.88	1.4	2.1
2	1.1	4.4	2.5	2.7	3.3	3.1	4.7	2.3	1.3	1.2	1.8	2.0
3	1.1	4.4	2.2	5.4	3.4	3.0	4.2	2.1	1.2	.96	3.9	2.1
4	1.1	5.1	2.7	4.2	3.5	9.8	4.0	2.1	1.2	.88	8.5	2.3
5	1.1	5.9	2.3	3.5	3.3	5.5	14	1.9	1.2	.88	5.4	2.3
6	1.1	3.3	3.2	3.5	3.1	8.7	5.2	1.6	.98	.80	3.4	4.0
7	3.5	2.3	6.2	6.3	3.1	8.4	4.2	1.6	.98	.80	3.0	2.3
8	1.9	2.2	3.8	4.0	3.0	5.6	3.8	1.6	.95	.80	2.4	2.0
9	1.1	2.1	2.9	9.1	3.0	4.6	3.5	1.5	.88	.80	2.6	2.0
10	4.7	2.0	2.5	9.1	3.3	4.1	3.3	1.4	.86	.80	2.3	1.8
11	2.6	2.5	3.9	5.3	3.1	3.9	3.2	1.4	.87	.80	2.1	1.8
12	1.8	5.0	3.0	4.3	3.5	1.9	3.0	1.4	.85	.80	2.0	1.7
13	1.5	4.0	9.1	3.9	4.2	1.2	2.9	1.4	.85	.72	2.0	1.7
14	1.2	5.0	5.3	6.2	3.6	6.8	2.8	1.3	.84	.72	2.1	1.7
15	1.1	3.0	5.6	5.1	3.5	5.8	2.5	1.3	.84	.72	2.1	1.7
16	1.1	1.0	4.1	4.1	3.5	4.9	2.4	1.2	.85	.72	2.1	2.0
17	1.8	5.6	3.4	3.6	3.5	3.9	2.3	1.2	.86	.72	2.1	2.7
18	1.4	4.8	2.8	3.7	3.6	3.5	2.3	1.2	1.5	.80	2.1	7.7
19	1.5	4.4	2.5	3.5	3.4	3.2	2.2	1.2	1.9	.80	2.1	2.8
20	3.5	4.0	3.1	3.5	3.2	9.6	2.1	1.2	1.4	.72	2.3	2.5
21	2.2	4.1	2.7	3.4	3.0	4.9	2.2	1.2	.97	.72	2.3	2.2
22	1.8	3.8	2.4	3.4	2.8	1.9	2.2	1.2	.90	.72	2.1	2.1
23	1.5	3.5	2.4	3.3	2.3	8.2	4.8	1.2	.90	.80	2.1	2.0
24	1.5	3.3	2.3	5.2	9.6	6.5	3.4	1.8	.82	.72	2.1	1.9
25	1.8	3.3	1.5	4.7	3.5	4.7	2.6	1.5	.79	.72	2.3	1.8
26	1.8	4.5	1.2	3.9	2.8	3.6	2.4	1.0	.89	2.2	2.3	1.8
27	1.6	7.1	5.8	3.8	6.3	3.5	2.2	6.7	.96	4.2	2.1	2.0
28	1.6	3.2	4.4	3.7	4.3	3.5	2.2	2.8	.96	1.7	2.1	1.8
29	1.6	1.5	3.6	3.4	---	4.2	2.2	1.9	.88	1.3	2.1	1.7
30	2.1	8.0	3.3	3.4	---	9.5	2.7	1.5	.88	4.0	2.1	1.7
31	3.8	---	3.2	3.6	---	7.5	---	1.4	---	2.0	2.1	---
TOTAL	83.7	195.8	158.2	135.6	102.2	248.0	104.7	62.5	30.56	82.20	114.5	92.5
MEAN	2.70	6.53	5.10	4.37	3.65	8.00	3.49	2.02	1.02	2.65	3.69	3.08
MAX	1.9	3.2	3.0	9.1	9.6	4.9	14	1.0	1.9	2.2	3.9	2.7
MIN	1.1	2.0	2.2	2.7	2.3	3.0	2.1	1.2	.79	.72	1.4	1.7
CFSM	1.14	2.77	2.16	1.85	1.55	3.39	1.48	.86	.43	1.12	1.56	1.31
IN.	1.32	3.09	2.49	2.14	1.61	3.91	1.65	.98	.48	1.30	1.80	1.46
CAL YR 1976 TOTAL	1282.56			MEAN 3.50	MAX 3.2	MIN .62	CFSM 1.48	IN 20.21				
WTR YR 1977 TOTAL	1410.46			MEAN 3.86	MAX 4.9	MIN .72	CFSM 1.64	IN 22.22				

02212500 OCMULGEE RIVER AT JULIETTE, GA.

LOCATION.--Lat 33°05'50", long 83°47'10", Monroe-Jones County line, Hydrologic Unit 03070103, on left bank 0.9 mi (1.4 km) downstream from Juliette Mills at Juliette, and 2.5 mi (4.0 km) downstream from Towaliga River.

DRAINAGE AREA.--1,960 mi² (5,080 km²).

PERIOD OF RECORD.--June 1916 to September 1921, July 1974 to current year.

REVISED RECORDS.--WSP 1724: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 340.97 ft (103.93 m) above mean sea level.

REMARKS.--Records good. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin," station 02210000.)

AVERAGE DISCHARGE.--8 years (1916-21, 1974-77), 2,808 ft³/s (79.5 m³/s), 19.46 in/yr (494.3 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 52,900 ft³/s (1,500 m³/s) Dec. 11, 1919, gage height, 30.8 ft (9.39 m); minimum daily, 438 ft³/s (12.4 m³/s) Oct. 28, 1918.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 32 ft (9.75 m) in May 1886, from floodmarks, discharge, 55,800 ft³/s (1,580 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,800 ft³/s (447 m³/s) Mar. 23, gage height, 14.39 ft (4.386 m); minimum daily, 772 ft³/s (21.9 m³/s) July 17.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	852	1420	3580	3250	3210	3490	11500	1700	1160	1100	1380	874
2	869	1060	3140	3170	3170	3320	8190	1700	947	1640	1480	871
3	873	1030	3030	2660	3150	3240	6020	2150	1260	1060	3200	874
4	829	1010	4090	3010	2540	3050	5220	2100	1230	940	6910	882
5	843	1000	4390	3420	1870	4090	5990	1920	1060	885	4670	887
6	846	935	3860	3360	1890	5060	6420	1830	1500	842	2050	931
7	867	930	2340	3640	1940	6640	5960	1310	1160	835	1530	985
8	1590	908	2510	3520	2420	4550	5400	1030	868	816	1300	1160
9	5560	1200	3420	3640	2410	4040	3930	1020	850	816	959	1740
10	2320	905	2870	5180	2200	3830	3810	1110	842	816	922	970
11	1720	900	2920	5050	1710	3750	3760	950	843	804	981	964
12	1830	919	5740	7560	1970	3860	3700	990	856	805	937	1040
13	2070	892	6300	7450	1320	8930	3600	1350	853	853	915	1270
14	2140	960	4810	4100	2090	6750	3440	1270	832	839	892	844
15	1400	1310	4210	4390	1810	4560	2020	974	828	786	870	883
16	921	2030	4030	5070	2380	3900	1330	1230	845	802	872	919
17	953	3270	3750	3770	2350	3760	1720	1310	859	772	879	975
18	1430	2900	3610	3690	2060	3690	1400	1250	947	804	929	1120
19	1100	1490	3530	3600	1250	3640	2070	920	882	809	903	1140
20	1340	2150	3500	3480	1170	3450	1960	914	1220	845	894	1610
21	1600	2760	3470	3240	1150	5950	1780	989	1230	809	898	967
22	1290	1780	3420	3200	1120	14300	2740	929	1170	879	1100	1440
23	1000	2050	3360	3170	1540	1540	2180	1050	1230	836	1290	1700
24	969	1840	3310	3220	2620	10100	2640	1150	813	839	879	1340
25	965	1290	2460	3360	3530	6230	2670	1120	836	815	882	886
26	984	1540	6460	2700	3380	5180	2420	1280	1100	821	965	871
27	977	1870	4990	2750	3560	4010	2300	2330	1640	894	1030	882
28	963	2490	4210	2610	3780	3900	2420	2640	1060	961	1340	892
29	1380	4870	3890	1910	---	4290	2140	1640	813	1220	1540	884
30	989	4060	3750	2050	---	6360	2180	1200	836	2010	1210	881
31	996	---	3580	2730	---	11300	---	1420	---	2210	1310	---
TOTAL	42466	52169	118530	113950	63590	160760	110910	42776	30570	30163	45917	31682
MEAN	1370	1739	3824	3676	2271	5186	3697	1380	1019	973	1481	1056
MAX	5560	4870	6460	7560	3780	14300	11500	2640	1640	2210	6910	1740
MTN	829	892	2340	1910	1120	1540	1330	914	813	772	870	844

CAL YR 1976 TOTAL 1017382 MEAN 2780 MAX 42900 MIN 829 MEAN‡ 2793 CFSM‡ 1.42 IN‡ 19.40
WTR YR 1977 TOTAL 843483 MEAN 2311 MAX 14300 MIN 772 MEAN‡ 2317 CFSM‡ 1.18 IN‡ 16.05

‡ Adjusted for change in contents in Lloyd Shoals Reservoir.

ALTAMAHA RIVER BASIN

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02212600 FALLING CREEK NEAR JULIETTE, GA.
(Hydrologic bench-mark station)

LOCATION.--Lat 33°05'59", long 83°43'25", Jones County, Hydrologic Unit 03070103, on left bank 100 ft (30 m) upstream from highway bridge, 4 mi (6.4 km) upstream from Caney Creek, and 5.1 mi (8.2 km) east of Juliette.
DRAINAGE AREA.--72.2 mi² (187 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 370 ft (113 m), from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--13 years, 69.3 ft³/s (1.96 m³/s), 13.03 in/yr (331.0 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,700 ft³/s (218 m³/s) Mar. 2, 1971, gage height, 23.0 ft (7.010 m), from floodmark; minimum, 0.14 ft³/s (0.004 m³/s) Sept. 29, 30, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,100 ft³/s (31.2 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 22	0715	*2580 73.1	15.93 4.855

Minimum daily discharge, 7.5 ft³/s (0.212 m³/s) July 26.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	24	100	55	47	115	241	23	11	14	12	10
2	14	21	67	49	45	75	129	20	9.7	113	14	9.3
3	13	28	50	72	44	61	91	19	8.9	75	310	9.8
4	12	24	41	137	44	130	74	17	8.1	27	215	12
5	12	20	37	96	44	226	167	16	7.9	17	50	12
6	11	19	39	74	42	242	130	15	7.9	14	27	17
7	12	23	369	146	39	409	74	15	8.1	12	18	157
8	19	19	231	125	38	203	58	14	8.0	10	13	54
9	75	23	109	96	38	114	49	13	8.1	14	14	37
10	47	19	75	535	38	82	42	12	8.1	22	13	27
11	25	19	62	225	38	74	39	11	7.9	12	12	26
12	18	21	865	122	37	137	35	12	8.1	9.9	11	20
13	16	19	532	89	41	850	33	11	8.4	8.9	9.7	16
14	19	20	197	112	39	270	31	11	8.5	8.2	9.1	15
15	16	127	142	144	37	143	29	11	8.0	7.9	9.2	14
16	15	129	125	97	35	93	27	11	13	7.8	9.6	14
17	20	58	91	71	35	72	25	10	28	7.7	12	15
18	27	39	67	63	35	63	25	9.8	56	7.7	11	19
19	21	31	55	62	36	58	24	9.4	50	7.7	13	19
20	86	28	57	55	35	147	23	9.2	18	7.7	14	17
21	74	28	55	56	33	568	22	9.9	12	7.7	13	16
22	38	26	47	53	33	2030	21	11	29	7.7	11	14
23	26	23	44	50	32	344	23	11	113	7.7	10	13
24	22	22	42	61	214	171	29	12	21	7.6	9.2	13
25	21	22	81	78	185	113	25	20	14	7.6	8.9	13
26	28	25	800	65	86	82	21	16	11	7.5	10	12
27	28	47	255	59	170	69	19	14	11	12	49	12
28	21	318	133	58	250	60	19	15	10	14	43	13
29	18	723	92	54	---	90	18	13	9.5	17	19	13
30	19	214	69	48	---	102	21	12	8.9	26	13	12
31	27	---	62	47	---	938	---	11	---	16	11	---
TOTAL	816	2159	4991	3054	1790	8131	1564	414.3	531.1	534.3	993.7	651.1
MFAN	26.3	72.0	161	98.5	63.9	262	52.1	13.4	17.7	17.2	32.1	21.7
MAX	86	723	865	535	250	2030	241	23	113	113	310	157
MTN	11	19	37	47	32	58	18	9.2	7.9	7.5	8.9	9.3
CFSM	.36	1.00	2.23	1.36	.89	3.63	.72	.19	.25	.24	.45	.30
IN.	.42	1.11	2.57	1.57	.92	4.19	.81	.21	.27	.28	.51	.34
CAL YR 1976	TOTAL	31121.8	MEAN	85.0	MAX	4150	MIN	8.0	CFSM	1.18	IN	16.03
WTR YR 1977	TOTAL	25629.5	MEAN	70.2	MAX	2030	MIN	7.5	CFSM	.97	IN	13.21

ALTAMAHA RIVER BASIN

02212600 FALLING CREEK NEAR JULIETTE, GA.--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: August 1965 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 31.5°C Aug. 3, 1970; minimum, 0.0°C Jan. 9, 10, 1970, Dec. 26, 1976.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 28.5°C July 21; minimum, 0.0°C Dec. 26.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT					
04...	1030	12	6.9	16.5	7.8
NOV					
08...	1030	19	7.2	7.0	--
MAR					
16...	0715	96	7.4	15.0	9.3
APR					
20...	0730	29	--	17.0	8.8
MAY					
05...	1130	19	7.4	18.0	8.4
11...	0845	13	7.5	14.5	7.7
JUN					
07...	0815	8.6	7.3	19.5	8.0
21...	0830	13	7.4	23.0	6.9
JUL					
27...	0830	8.2	7.0	25.0	7.5
AUG					
23...	0650	11	6.9	22.5	8.1
SEP					
06...	0730	11	7.3	24.0	8.1
20...	0830	18	7.0	23.0	7.6

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- NUM- COBALT UNITS)	TUR- BID- ITY (NTU)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)
OCT									
04...	125	20	--	300	170	51	0	11	5.7
NOV									
08...	105	70	9.0	320	1450	48	0	10	5.5
MAR									
16...	62	35	--	230	360	38	2	8.5	4.0
APR									
20...	97	15	9.0	280	--	47	0	10	5.4
MAY									
05...	123	5	9.0	300	560	53	1	11	6.3
11...	119	0	8.0	340	730	61	5	12	7.6
JUN									
07...	125	10	8.0	530	1800	54	0	12	5.8
21...	112	100	35	240	2100	44	0	10	4.7
JUL									
27...	115	20	22	3800	17000	46	0	10	5.1
AUG									
23...	140	20	5.0	300	2200	53	0	12	5.5
SEP									
06...	129	10	4.0	380	1900	52	0	12	5.4
20...	136	--	5.0	930	1600	54	0	12	5.9

02212600 FALLING CREEK NEAR JULIETTE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT										
04...	8.0	1.5	71	0	58	2.3	3.4	.6	21	103
NOV										
08...	7.2	1.7	67	0	55	5.3	3.5	.1	18	75
MAR										
16...	4.8	1.0	43	0	35	4.2	2.7	.2	15	68
APR										
20...	6.3	1.2	58	0	48	2.5	2.6	.2	19	86
MAY										
05...	7.0	1.1	64	0	53	4.0	3.3	.3	20	104
11...	7.7	1.1	68	0	56	2.3	3.2	.3	21	81
JUN										
07...	8.4	1.3	75	0	62	2.1	3.2	.5	22	87
21...	7.4	1.4	57	0	47	3.9	3.1	.6	18	88
JUL										
27...	6.3	1.4	58	0	48	2.0	2.5	.3	19	72
AUG										
23...	9.0	1.3	72	0	59	2.8	4.2	.5	22	99
SEP										
06...	8.2	1.5	69	0	57	1.5	3.3	.3	22	95
20...	8.0	1.5	75	0	62	2.3	3.7	.5	20	91

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (NO3) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT											
04...	89	.02	.09	.00	.00	--	.02	--	3	.10	--
NOV											
08...	85	.02	.09	.00	.00	--	.02	--	2	.10	100
MAR											
16...	62	.04	.18	.01	.03	--	.05	--	--	--	--
APR											
20...	76	.04	.18	.00	.00	--	.04	--	8	.63	93
MAY											
05...	85	--	--	--	--	--	--	--	16	.82	68
11...	89	.08	.35	.00	.00	--	.08	--	8	.28	92
JUN											
07...	93	.08	.40	.00	.00	--	.08	--	33	.77	67
21...	78	.05	.20	.00	.00	--	.05	--	51	1.8	81
JUL											
27...	76	.14	.62	.01	.03	--	.15	--	41	.91	90
AUG											
23...	93	.06	.27	.00	.00	--	.06	--	10	.30	81
SEP											
06...	89	.04	.18	.00	.00	--	.04	--	6	.18	82
20...	91	--	--	--	--	.02	--	.11	8	.39	90

02212600 FALLING CREEK NEAR JULIETTE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT										
04...	0	1	4	0	100	7	150	.0	0	10
NOV										
08...	--	--	--	--	110	--	150	--	--	--
MAR										
16...	--	--	--	--	460	--	70	--	--	--
APR										
20...	0	0	6	2	150	4	100	.0	0	0
MAY										
05...	--	--	--	--	120	--	90	--	--	--
11...	--	--	--	--	160	--	140	--	--	--
JUN										
07...	--	--	--	--	170	--	170	--	--	--
21...	--	--	--	--	340	--	60	--	--	--
JUL										
27...	1	0	0	4	60	4	170	.0	0	10
AUG										
23...	--	--	--	--	250	--	130	--	--	--
SEP										
06...	--	--	--	--	340	--	100	--	--	--

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		
1	19.5	18.5	11.5	11.0	---	---	3.5	3.0	2.5	2.5	10.0	7.0
2	19.0	16.5	11.0	10.0	5.0	4.0	3.0	2.5	3.0	2.5	10.5	7.5
3	18.5	16.5	10.5	10.0	5.0	4.5	2.0	1.5	3.0	3.0	12.5	9.0
4	18.5	16.5	10.5	10.0	4.5	4.5	1.5	1.0	3.5	3.0	13.0	11.5
5	18.5	17.5	10.0	7.0	5.0	4.0	2.5	1.0	4.0	3.5	12.5	11.5
6	18.5	18.0	9.0	6.5	5.0	4.0	3.0	2.5	4.0	3.5	11.5	10.5
7	19.0	18.5	10.0	8.5	5.0	4.0	3.0	2.5	3.5	3.5	12.0	10.0
8	19.0	18.5	9.0	7.5	4.5	4.0	2.5	2.5	3.5	3.5	11.5	9.0
9	19.5	18.0	9.5	7.5	4.0	4.0	2.5	2.5	3.5	2.5	11.5	8.5
10	18.0	16.5	10.0	8.0	4.5	4.0	2.5	.5	3.5	2.5	11.5	10.0
11	16.5	16.0	10.5	9.5	5.0	4.5	2.0	.5	4.0	3.0	13.5	11.5
12	16.0	13.0	10.0	8.0	5.5	5.0	1.0	1.0	5.5	4.0	15.5	13.5
13	15.5	12.5	9.5	7.5	6.0	5.5	1.5	1.0	6.5	5.5	16.0	13.5
14	16.0	14.5	9.0	6.5	5.0	5.0	2.0	1.5	6.5	6.0	15.0	13.0
15	16.0	13.0	7.5	6.5	5.0	4.5	2.5	2.0	6.5	6.0	15.5	12.5
16	16.0	13.5	7.5	7.0	5.5	5.0	2.5	2.0	6.5	6.0	18.0	15.0
17	16.0	15.5	8.0	7.5	5.0	4.5	2.0	1.5	6.0	5.0	16.0	13.5
18	16.0	15.0	8.0	7.5	4.5	4.5	1.5	1.0	6.0	4.5	17.0	14.0
19	15.0	13.5	9.0	8.0	5.0	4.5	1.0	.5	7.0	5.5	16.5	15.0
20	14.0	13.0	9.0	8.5	5.5	5.0	1.0	.5	7.5	6.5	16.0	14.5
21	13.0	12.0	8.5	7.5	---	---	1.0	1.0	6.5	5.0	15.0	11.5
22	12.5	12.0	7.5	6.5	---	---	1.5	1.0	6.5	5.0	13.0	11.5
23	13.0	12.0	7.0	6.5	2.5	2.0	1.5	1.0	9.5	6.0	12.5	10.0
24	13.5	13.0	7.0	6.5	2.0	1.5	1.5	1.5	12.0	9.5	13.0	10.0
25	14.0	13.5	6.5	6.5	1.5	1.0	2.0	1.5	12.0	10.5	15.0	12.0
26	14.0	13.5	7.5	6.5	1.0	.0	2.0	1.5	13.5	10.5	15.0	12.0
27	13.0	13.0	9.5	8.0	2.0	1.0	2.5	2.0	13.0	11.5	16.0	13.0
28	13.0	7.5	9.0	7.5	3.0	2.0	3.5	2.5	11.0	9.0	16.0	14.5
29	9.0	6.5	7.0	5.5	3.5	3.0	3.5	2.5	---	---	17.0	15.5
30	12.0	8.5	---	---	3.5	3.0	2.5	2.0	---	---	18.0	16.5
31	12.0	11.5	---	---	3.0	2.5	2.5	2.5	---	---	18.5	16.0
MONTH	19.5	6.5	11.5	5.5	6.0	.0	3.5	.5	13.5	2.5	18.5	7.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		
1	18.0	16.0	17.5	15.5	23.0	20.0	25.0	23.0	27.0	24.5	---	---
2	17.0	15.5	18.0	16.0	22.5	20.0	26.0	23.5	25.5	24.5	---	---
3	18.5	17.0	18.5	16.5	22.0	18.5	26.5	25.0	24.5	23.5	---	---
4	19.0	17.0	18.5	16.5	22.0	19.0	27.0	25.0	24.0	23.5	---	---
5	18.5	15.5	19.0	17.0	22.5	19.5	27.5	25.0	25.0	24.0	---	---
6	15.5	12.5	19.0	16.5	23.0	19.5	28.0	25.0	26.0	24.0	---	---
7	15.5	11.5	21.5	17.5	21.5	19.5	28.0	25.0	25.5	24.0	---	---
8	17.5	13.5	20.0	17.5	20.5	17.0	28.0	25.0	25.0	23.0	---	---
9	17.0	13.5	20.0	17.5	21.5	16.5	27.5	24.5	---	---	---	---
10	17.0	12.5	17.5	15.5	22.0	17.0	28.0	24.5	---	---	---	---
11	18.0	13.5	17.0	14.5	22.5	17.0	26.5	24.5	---	---	---	---
12	18.5	14.5	17.0	14.5	23.5	20.5	26.5	24.0	---	---	---	---
13	19.0	15.0	17.5	14.5	24.5	21.5	27.0	24.0	---	---	---	---
14	19.0	15.0	17.5	15.0	24.5	21.5	27.5	24.0	---	---	---	---
15	19.0	15.0	18.0	15.0	24.0	22.0	27.0	24.5	---	---	---	---
16	19.0	15.0	18.5	15.5	26.5	22.0	27.0	24.0	---	---	---	---
17	19.0	15.5	19.0	16.5	26.5	23.5	27.0	24.0	---	---	---	---
18	18.5	16.0	19.5	16.5	26.0	22.5	26.5	23.5	---	---	---	---
19	20.0	17.0	20.0	17.5	24.0	23.0	26.5	23.5	---	---	---	---
20	19.5	17.0	20.0	17.5	25.0	22.5	27.0	23.5	---	---	24.0	23.0
21	19.5	17.5	21.5	18.5	26.0	22.5	28.5	24.0	---	---	24.5	22.5
22	20.0	18.5	20.5	18.5	27.0	23.0	28.0	24.5	---	---	23.5	21.5
23	20.0	19.0	20.5	18.0	26.5	24.5	27.0	25.0	---	---	23.0	21.5
24	19.5	18.0	20.0	19.0	26.5	24.5	27.5	23.5	---	---	23.0	21.5
25	17.5	15.5	19.5	18.0	27.5	25.0	26.5	23.0	---	---	24.0	22.0
26	15.5	13.5	20.5	18.5	27.5	25.5	27.0	25.0	---	---	24.5	22.5
27	15.5	11.5	21.5	19.0	27.5	24.5	25.0	24.5	---	---	24.0	22.0
28	17.0	12.5	21.0	18.5	27.0	24.5	25.0	23.5	---	---	23.5	21.5
29	17.0	14.0	22.0	19.0	27.0	24.0	24.0	23.0	---	---	21.5	20.0
30	17.0	15.5	22.5	19.5	26.0	23.5	25.5	24.0	---	---	21.5	20.5
31	---	---	22.0	19.5	---	---	25.5	23.5	---	---	---	---
MONTH	20.0	11.5	22.5	14.5	27.5	16.5	28.5	23.0	27.0	23.0	24.5	20.0
YEAR	28.5	.0										

02212950 OCMULGEE RIVER ABOVE MACON, GA.

LOCATION.--Lat 32°52'11", long 83°39'15", Bibb County, Hydrologic Unit 03070103, at Macon water works intake, 1.2 mi (1.9 km) north of Macon city limits, and at mile 201 (323 km).

DRAINAGE AREA.--2,240 mi² (5,800 km²), approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
14...	1200	2680	7.1	25.5	20.0	8.3
DEC						
07...	1230	4400	7.2	10.0	8.5	11.4
JAN						
06...	1200	3460	7.1	8.0	6.0	11.7
FEB						
03...	1030	3060	7.2	3.0	3.2	13.2
MAR						
01...	1440	3900	7.3	16.0	11.0	11.1
30...	1345	6700	7.1	26.0	17.0	9.9
MAY						
24...	1300	1730	7.2	22.0	23.5	7.7
JUN						
22...	1000	945	7.2	30.0	28.5	7.0
JUL						
20...	1045	800	7.3	32.0	31.0	6.8
AUG						
24...	1520	825	7.2	30.0	30.5	7.1

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	CON- FIRMED COLI- FORM (MPN)	HARD- NESS (CA, MG) (MG/L)
OCT							
14...	78	15	14	.6	230	430	16
DEC							
07...	69	70	42	.8	230	2300	17
JAN							
06...	56	50	27	.9	73	2300	14
FEB							
03...	62	25	18	.7	36	930	14
MAR							
01...	64	40	22	1.5	36	2300	14
30...	59	80	56	1.1	9300	23000	14
MAY							
24...	68	10	7	.6	150	9300	16
JUN							
22...	75	20	13	.6	30	4300	18
JUL							
20...	88	--	8	.3	40	930	--
AUG							
24...	68	--	12	.6	40	2300	--

02213000 OCMULGEE RIVER AT MACON, GA.

LOCATION.--Lat 32°50'19", long 83°37'14", Bibb County, Hydrologic Unit 03070103, at downstream end of center pier of Fifth Street Bridge in Macon, 1.5 mi (2.4 km) upstream from Walnut Creek, and at mile 198.0 (318.6 km).

DRAINAGE AREA.--2,240 mi² (5,800 km²), approximately.

PERIOD OF RECORD.--January 1893 to December 1911, January 1912 to December 1913 (gage heights and discharge measurements only), October 1928 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage height records collected at same site since 1895 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 822: Drainage area. WSP 1504: 1893-1903, 1905-10, 1932, 1937, 1942(M).

GAGE.--Water-stage recorder. Datum of gage is 269.80 ft (82.24 m) above mean sea level. Prior to Oct. 9, 1905, nonrecording gage at sites within 1.5 mi (2.4 km) downstream at about same datum. Oct. 9, 1905 to Dec. 31, 1913, nonrecording gage at present site and datum. Jan. 10, 1929 to June 25, 1934, water-stage recorder at site 500 ft (152 m) downstream at same datum. June 25, 1934 to June 25, 1973, water-stage recorder at present site and datum, and June 26, 1973 to Oct. 13, 1974, nonrecording gage at present site and datum.

REMARKS.--Records good. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", station 02210000.) Records of chemical analyses for the water years 1968-73 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--67 years (1893-1911, 1928-77), 2,740 ft³/s (77.6 m³/s), 16.61 in/yr (421.9 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,500 ft³/s (2,360 m³/s) Nov. 29, 1948, gage height, 28.0 ft (8.53 m); maximum gage height, 29.45 ft (8.976 m), from floodmark, Mar. 4, 1971; minimum daily discharge, 128 ft³/s (3.62 m³/s) Oct. 24, 1954; minimum gage height observed, -1.0 ft (-0.30 m) Oct. 5, 1904.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 19, 1925, reached a stage of 26.0 ft (7.92 m), from floodmarks at Central of Georgia Railroad bridge, 500 ft (152 m) downstream, discharge 72,500 ft³/s (2,050 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 14,000 ft³/s (396 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 22	1000	*26300 745	21.44 6.535

Minimum daily discharge, 690 ft³/s (19.5 m³/s) July 16.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1020	1050	4380	3380	2880	3980	12000	2620	1570	780	1260	835
2	895	1510	3670	3110	3090	3560	10100	1520	1020	1680	1870	798
3	924	1040	3240	2990	3060	3370	7390	2510	1060	1280	3020	816
4	907	1020	2520	3490	2850	3500	6690	2480	1140	947	7450	815
5	861	995	2060	3500	1810	4900	6560	2300	1340	830	5730	819
6	887	959	1890	3470	2240	5300	7500	2280	932	765	3310	814
7	911	922	4340	3900	1290	7970	6950	2000	1680	735	1300	1070
8	1040	912	4690	4080	2250	6340	6630	1310	916	720	1810	1010
9	5220	1100	3470	3780	2310	4920	5180	1260	885	705	1010	1830
10	3880	986	3210	7330	2280	4400	4530	1340	870	740	949	1030
11	1910	891	3310	5910	1650	4170	4410	1240	830	740	929	925
12	1990	901	7030	6630	1860	4150	4300	1210	795	715	957	899
13	1740	892	8830	7770	1570	10200	4210	1210	760	715	912	1300
14	2330	916	6380	5280	1320	8640	3940	1860	730	790	869	821
15	2300	1250	5070	4860	2250	6290	3600	1220	700	715	865	782
16	1030	1860	4680	5530	1630	4720	1860	1200	705	690	845	853
17	1050	3160	4290	4360	2190	4290	1710	1480	845	700	842	859
18	1100	3370	3940	3840	2220	4080	2080	1780	820	700	877	991
19	1520	2640	3740	3660	1410	3950	2160	1220	937	695	916	1030
20	1660	1740	3640	3590	1030	3830	2320	1150	765	760	889	1590
21	2000	2680	3600	3280	979	7920	2310	1160	1380	730	868	966
22	1520	2450	3490	3150	953	23700	2620	1150	973	760	859	863
23	1370	1780	3400	3100	942	16900	2620	1110	1360	760	1420	1830
24	1030	2170	3350	3140	2480	12200	3450	1350	896	750	856	1440
25	1060	1430	2860	3350	3800	8000	3080	1230	1200	740	829	832
26	1050	1350	8080	2970	3500	6850	2960	1270	745	730	922	803
27	1030	1960	6750	2810	3530	5190	2720	1530	730	750	991	789
28	1000	3270	5080	2740	4560	4760	2630	2810	1280	942	1200	803
29	1240	7450	4350	2120	---	4790	2540	2580	735	1030	1630	819
30	1220	5700	3950	1820	---	6360	2570	1400	800	1400	941	796
31	1030	---	3720	2560	---	9000	---	1120	---	2740	1500	---
TOTAL	46725	58354	133010	121500	61934	208230	131620	49900	29399	27734	48626	29828
MEAN	1507	1945	4291	3919	2212	6717	4387	1610	980	895	1569	994
MAX	5220	7450	8830	7770	4560	23700	12000	2810	1680	2740	7450	1830
MIN	861	891	1890	1820	942	3370	1710	1110	700	690	829	782

CAL YR 1976	TOTAL	1173970	MEAN	3208	MAX	39400	MIN	861	MEAN†	3221	CFSM†	1.44	IN†	19.57
WTR YR 1977	TOTAL	946860	MEAN	2594	MAX	23700	MIN	690	MEAN†	2600	CFSM†	1.16	IN†	15.76

† Adjusted for change in contents in Lloyd Shoals Reservoir.

ALTAMAHA RIVER BASIN

02212950 OCMULGEE RIVER AT MACON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 14...	20	--	.60	.05	.11	760	200	3.0
DEC 07...	20	--	.44	.04	.16	2400	210	6.0
JAN 06...	16	--	.42	.07	.10	1300	90	5.0
FEB 03...	16	--	.50	.18	.10	960	50	2.0
MAR 01...	17	--	.56	<.03	.06	1000	<50	2.0
30...	16	--	.43	.04	.15	2700	160	3.0
MAY 24...	19	--	.61	<.02	.06	450	50	2.0
JUN 22...	21	--	.57	<.02	.07	390	55	1.0
JUL 20...	--	4	.28	<.02	.05	--	--	4.0
AUG 24...	--	3	.45	<.02	.07	--	--	4.0

ALTAMAHA RIVER BASIN

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02213050 WALNUT CREEK NEAR GRAY, GA.

LOCATION.--Lat 32°58'20", long 83°37'08", Jones County, Hydrologic Unit 03070103, on downstream side of right bank pier of abandoned bridge, 500 ft (152 m) downstream from bridge on State Highway 18, 1.4 mi (2.3 km) upstream from Bonner Creek, and 5.5 mi (8.8 km) southeast of Gray.

DRAINAGE AREA.--29 mi² (75 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (119 m), from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--16 years, 35.3 ft³/s (1.00 m³/s), 16.53 in/yr (419.9 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,500 ft³/s (439 m³/s) Dec. 26, 1964, gage height, 23.8 ft (7.25 m), from floodmark, from rating curve extended above 5,000 ft³/s (142 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 0.48 ft³/s (0.014 m³/s) Oct. 4, 5, 6, 1968.

EXTREMES OUTSIDE PERIOD OF RECORD.--Zero flow was observed during June, July, and August 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28.3 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)
Mar. 13	0145	1190 33.7	4.55 1.387	Mar. 22	0115	*2950 83.5	9.05 2.758

Minimum daily discharge, 2.1 ft³/s (0.059 m³/s) Sept. 26.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	11	30	23	24	35	29	12	5.8	8.2	3.5	2.8
2	6.5	8.7	23	21	22	29	26	11	5.2	15	5.0	2.6
3	5.3	9.0	19	75	22	26	25	10	4.8	14	200	3.1
4	4.6	8.5	18	75	22	102	21	9.9	4.6	6.0	60	3.4
5	5.0	8.1	16	47	21	75	63	9.5	4.7	5.2	20	3.5
6	4.6	8.2	17	38	19	99	32	9.0	4.4	4.5	13	3.4
7	5.6	9.0	80	77	18	142	25	9.2	5.5	4.2	10	4.8
8	12	8.8	49	48	18	66	22	8.9	5.2	3.9	8.0	5.5
9	39	8.8	29	48	18	47	19	8.5	5.0	3.6	7.0	5.7
10	9.0	9.3	24	335	18	39	17	8.0	4.5	3.3	6.2	5.2
11	7.0	9.5	29	76	18	36	17	7.8	4.3	3.3	5.6	8.5
12	6.0	9.5	200	52	18	107	16	7.8	6.5	3.5	5.4	4.4
13	5.6	9.2	98	44	20	382	15	7.7	5.2	3.2	5.2	3.4
14	5.5	11	52	66	18	75	14	7.6	4.5	3.0	4.9	2.8
15	5.3	47	48	58	16	49	13	7.2	4.3	8.3	4.9	2.9
16	5.0	22	39	44	16	39	13	7.0	14	4.2	4.7	4.1
17	10	14	31	38	15	32	13	6.6	20	3.5	4.6	4.9
18	8.2	12	26	32	15	29	12	6.6	9.1	3.0	4.5	4.0
19	5.9	11	23	58	16	25	12	6.5	9.2	3.4	5.7	4.5
20	41	11	25	47	15	37	11	6.3	6.2	3.2	5.8	3.9
21	15	11	21	28	15	773	11	6.9	5.2	3.0	5.2	3.2
22	9.2	10	18	25	15	963	11	6.7	4.9	2.9	4.6	2.6
23	8.1	10	18	24	14	105	27	6.4	5.9	2.8	4.2	2.4
24	7.6	10	17	31	79	61	45	7.6	6.6	2.5	4.0	2.3
25	8.5	10	57	31	40	46	16	8.6	5.4	2.3	4.0	2.2
26	10	13	261	26	28	37	13	8.4	4.7	2.5	24	2.1
27	8.6	26	64	29	64	32	11	8.2	4.6	3.5	6.9	2.5
28	7.7	201	46	36	54	29	11	9.0	4.1	5.0	5.1	2.7
29	7.7	154	36	32	---	29	11	7.0	3.7	10	4.5	2.2
30	9.6	48	29	26	---	31	13	6.4	4.4	7.0	3.7	2.3
31	13	---	27	27	---	43	---	6.0	---	4.5	3.2	---
TOTAL	303.1	738.6	1470	1617	678	3620	584	248.3	182.5	152.5	453.4	107.9
MEAN	9.78	24.6	47.4	52.2	24.2	117	19.5	8.01	6.08	4.92	14.6	3.60
MAX	41	201	261	335	79	963	63	12	20	15	200	8.5
MIN	4.6	8.1	16	21	14	25	11	6.0	3.7	2.3	3.2	2.1
CFSM	.34	.85	1.63	1.80	.83	4.03	.67	.28	.21	.17	.50	.12
IN.	.39	.95	1.89	2.07	.87	4.64	.75	.32	.23	.20	.58	.14
CAL YR 1976	TOTAL	11382.0	MEAN	31.1	MAX	1750	MIN	2.3	CFSM	1.07	IN	14.60
WTR YR 1977	TOTAL	10155.3	MEAN	27.8	MAX	963	MIN	2.1	CFSM	.96	IN	13.03

02213500 TOBESOFKEE CREEK NEAR MACON, GA.

LOCATION.--Lat 32°48'32", long 83°45'30", Bibb County, Hydrologic Unit 03070103, on right bank at downstream end of pier of bridge on U.S. Highway 80, 8 mi (13 km) west of Macon, and 14 mi (23 km) upstream from mouth.

DRAINAGE AREA.--182 mi² (471 km²).

PERIOD OF RECORD.--March 1937 to current year.

REVISED RECORDS.--WSP 1204: 1942.

GAGE.--Water-stage recorder. Datum of gage is 309.98 ft (94.48 m) above mean sea level. Prior to Aug. 28, 1942, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow regulated to some extent since November 1967 by Lake Tobesofkee, about 1 mi (1.6 km) upstream.

Records of chemical analyses for the water years 1969-70 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--40 years, 199 ft³/s (5.64 m³/s), 14.85 in/yr (377.2 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,830 ft³/s (278 m³/s) Mar. 21, 1944, gage height, 23.2 ft (7.07 m), from rating curve extended above 6,300 ft³/s (178 m³/s); minimum, 2.3 ft³/s (0.065 m³/s) Oct. 10, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,800 ft³/s (164 m³/s) Mar. 22, gage height, 18.15 ft (5.532 m); minimum daily, 28 ft³/s (0.79 m³/s) July 24-27.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	95	264	218	174	37	588	159	108	48	35	42
2	80	92	219	198	174	37	413	154	104	50	272	41
3	72	90	192	870	174	38	308	142	97	50	1340	41
4	67	88	157	1590	174	111	295	132	92	47	656	40
5	64	88	156	1580	174	583	686	128	86	46	259	39
6	63	86	164	833	174	624	387	121	81	43	109	38
7	60	81	570	438	174	763	288	116	68	41	83	38
8	63	72	436	251	175	457	259	116	64	40	75	40
9	151	72	251	251	175	306	229	112	61	40	65	42
10	209	69	234	1040	174	277	214	112	58	38	63	48
11	146	65	200	830	174	273	197	104	56	37	58	51
12	123	65	864	441	174	347	202	95	52	36	55	51
13	102	68	945	253	146	1950	197	84	51	34	51	48
14	83	67	451	244	84	1010	188	83	51	33	49	47
15	77	85	346	515	82	492	180	79	52	33	46	46
16	70	211	321	238	82	406	167	78	51	32	44	46
17	71	168	286	236	81	315	162	76	50	32	43	46
18	79	135	247	235	81	278	164	74	51	31	54	47
19	83	116	224	233	79	288	157	74	51	30	51	48
20	249	114	190	231	61	321	152	74	52	29	50	48
21	183	113	103	231	38	1530	142	74	51	29	51	50
22	90	108	139	232	38	5120	147	74	52	29	49	51
23	85	101	166	231	39	1940	232	73	56	29	48	49
24	84	99	163	232	42	871	521	74	59	28	47	49
25	82	99	399	231	38	659	266	76	58	28	46	45
26	83	95	1280	230	38	546	186	79	61	28	45	44
27	88	100	596	231	40	420	132	266	61	28	45	45
28	95	1070	351	231	38	226	114	278	55	30	44	44
29	95	1470	274	232	---	211	116	128	54	30	44	43
30	95	452	228	207	---	423	144	119	51	30	44	41
31	95	---	225	174	---	1010	---	112	---	33	43	---
TOTAL	3087	5634	10641	13187	3097	21869	7423	3466	1894	1092	3964	1348
MEAN	99.6	188	343	425	111	705	247	112	63.1	35.2	128	44.9
MAX	249	1470	1280	1590	175	5120	686	278	108	50	1340	51
MIN	60	65	103	174	38	37	114	73	50	28	35	38
CFSM	.55	1.03	1.89	2.34	.61	3.87	1.36	.62	.35	.19	.70	.25
IN.	.63	1.15	2.17	2.70	.63	4.47	1.52	.71	.39	.22	.81	.28
CAL YR 1976	TOTAL	78380	MEAN 214	MAX 4420	MIN 34	CFSM 1.18	IN 16.02					
WTR YR 1977	TOTAL	76702	MEAN 210	MAX 5120	MIN 28	CFSM 1.15	IN 15.68					

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.

LOCATION.--Lat 32°40'17", long 83°36'11", Bibb-Twigg County line, Hydrologic Unit 03070103, on right bank 0.8 mi (1.3 km) upstream from Echeconnee Creek, 4 mi (6.5 km) northeast of Warner Robins, and 5.7 mi (9.2 km) downstream from Tobesofkee Creek.

DRAINAGE AREA.--2,690 mi² (6,970 km²), approximately.

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1970 to current year.

pH: October 1971 to current year.

WATER TEMPERATURES: February 1970 to current year.

DISSOLVED OXYGEN: May 1970 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", station 02210000.)

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 179 micromhos Oct. 21, 1970; minimum recorded, 25 micromhos Jan. 7, 1974.

pH: Maximum recorded, 7.8 units Oct. 1, 1971; minimum recorded, 5.2 units Jan. 14, 1972.

WATER TEMPERATURE: Maximum, 33.5°C July 8, 10, 1977; minimum, 1.0°C Jan. 19, 20, 1977.

DISSOLVED OXYGEN: Maximum recorded, 16.5 mg/L Mar. 12, 1970; minimum recorded, 0.0 mg/L June 8, 9, 1971.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 150 micromhos June 30; minimum, 41 micromhos Jan. 28, Mar. 15.

pH: Maximum, 7.3 units Jan. 7, 8; minimum, 5.7 units May 29, 30, June 7.

WATER TEMPERATURE: Maximum, 33.5°C July 8, 10; minimum, 1.0°C Jan. 19, 20.

DISSOLVED OXYGEN: Maximum recorded, 13.5 mg/L Feb. 3; minimum, 1.2 mg/L July 9.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
14...	1115	2020	6.5	21.0	19.5	6.8
DEC						
07...	1130	2870	6.2	8.6	9.0	10.0
JAN						
06...	1000	--	6.5	6.8	7.0	10.4
FEB						
03...	0900	3450	6.0	-2	3.5	13.2
MAR						
01...	1340	--	6.2	17.0	10.2	10.4
30...	1300	--	6.0	23.0	17.5	9.1
MAY						
24...	1130	1090	6.2	23.0	25.0	5.2
JUN						
22...	0815	1470	6.0	26.0	29.0	5.0
JUL						
20...	0245	860	6.0	28.4	30.3	4.2
AUG						
24...	1430	1260	6.7	30.5	30.0	4.8

ALTAMAHA RIVER BASIN

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- CORALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA,MG) (MG/L)	ALKA- LILITY AS CACO3 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 14...	100	30	22	.9	4300	18	25	--	.56	.16	.21	6.0
DEC 07...	90	80	22	1.2	43000	17	22	--	.46	.24	.20	8.0
JAN 06...	62	60	32	1.8	2300	15	18	--	.35	.10	.13	6.0
FEB 03...	71	35	22	.8	4300	15	18	--	.50	.25	.13	3.0
MAR 01...	78	60	40	.8	4300	16	20	--	.52	.07	.17	4.0
30...	47	80	60	.8	430	12	13	--	.40	<.02	.13	5.0
MAY 24...	101	30	12	1.3	2300	18	28	--	.70	.35	.23	4.0
JUN 22...	88	35	20	1.0	440	16	24	--	.59	.17	.20	2.3
JUL 20...	136	30	12	.8	430	--	--	9	.48	.35	.30	7.0
AUG 24...	101	30	22	1.1	9300	--	--	23	.45	.25	.19	5.0

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	112	93	---	---	96	81	84	72	74	57	85	67
2	110	89	133	97	97	80	86	78	71	51	81	65
3	90	83	121	101	95	81	79	76	71	59	77	58
4	88	80	125	113	96	79	76	64	74	58	65	58
5	96	84	127	114	100	81	63	48	71	59	65	61
6	107	95	135	118	91	82	66	52	82	64	70	65
7	115	100	124	104	92	78	76	64	84	69	73	61
8	117	103	122	109	---	---	80	70	91	68	78	58
9	110	70	133	117	---	---	72	68	89	68	75	56
10	96	78	115	101	---	---	78	66	90	66	68	60
11	98	88	135	105	---	---	88	73	89	68	64	55
12	96	81	---	---	---	---	83	67	84	64	56	48
13	95	78	---	---	---	---	71	54	72	65	91	51
14	106	92	134	118	---	---	67	46	86	69	96	46
15	---	---	136	116	---	---	51	45	83	70	61	41
16	---	---	114	101	---	---	63	49	100	80	62	49
17	---	---	108	84	---	---	79	63	102	85	59	49
18	---	---	91	75	---	---	75	65	97	70	56	44
19	---	---	89	80	---	---	80	68	82	70	64	48
20	---	---	90	81	---	---	73	67	94	76	91	51
21	---	---	86	72	---	---	77	59	102	87	117	73
22	---	---	89	79	107	95	73	58	103	82	129	69
23	---	---	104	89	96	86	71	57	92	78	82	65
24	---	---	107	85	96	79	67	61	84	62	80	61
25	126	106	105	87	91	82	65	53	69	57	71	56
26	---	---	103	86	79	70	68	51	70	53	71	56
27	---	---	88	73	84	66	58	51	72	57	67	55
28	---	---	77	62	71	58	57	41	83	71	65	57
29	---	---	---	---	75	61	73	55	---	---	63	55
30	---	---	---	---	79	62	76	63	---	---	50	44
31	---	---	---	---	77	59	68	56	---	---	52	46
MONTH	126	70	136	62	107	58	88	41	103	51	129	41
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	56	50	74	57	90	75	138	122	118	75	101	89
2	60	49	77	64	94	75	142	102	125	100	111	100
3	60	48	86	54	104	93	108	92	108	94	115	104
4	60	51	70	57	105	82	120	105	104	81	102	98
5	70	60	71	56	96	80	125	108	107	81	99	96
6	81	69	74	56	93	81	121	102	92	85	100	95
7	81	61	74	60	109	81	127	104	108	93	104	95
8	70	54	77	63	92	82	134	107	115	90	101	94
9	79	58	89	79	109	94	138	123	116	97	110	83
10	75	61	100	88	116	102	141	119	125	110	101	84
11	70	55	97	87	110	101	125	115	131	117	115	102
12	66	59	102	92	103	97	140	114	125	113	111	105
13	65	59	107	94	100	90	137	119	123	110	113	97
14	70	58	108	73	105	94	126	116	122	110	112	94
15	70	61	---	---	123	102	124	115	109	103	122	111
16	78	68	---	---	112	99	134	120	112	104	121	114
17	84	71	---	---	116	100	127	120	114	103	117	109
18	78	62	101	73	113	91	127	117	---	---	115	108
19	76	64	86	74	101	86	144	122	---	---	109	105
20	69	59	97	85	98	93	144	130	---	---	110	95
21	70	58	102	91	106	78	137	117	---	---	105	93
22	72	59	95	88	101	80	139	118	---	---	123	106
23	67	57	97	90	117	98	136	115	110	88	120	89
24	71	56	105	94	108	95	118	113	107	85	108	91
25	76	63	96	92	124	95	119	106	116	107	116	102
26	79	69	99	86	119	95	120	108	128	108	131	113
27	85	66	92	79	128	118	126	118	120	113	131	112
28	82	62	85	61	133	96	127	118	116	104	132	119
29	77	57	66	58	120	92	129	119	102	87	126	122
30	72	60	77	64	150	116	124	105	103	85	123	118
31	---	---	85	78	---	---	107	72	115	90	---	---
MONTH	85	48	108	54	150	75	144	72	131	75	132	83

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.4	6.0	6.9	6.5	6.5	6.0	6.9	6.5	6.3	5.9	6.4	6.1
2	6.5	6.2	7.0	6.6	6.8	6.1	6.9	6.6	6.4	5.9	6.4	6.2
3	6.6	6.3	7.1	6.5	6.9	6.2	6.8	6.6	6.3	5.8	6.4	6.3
4	6.7	6.3	6.9	6.4	6.9	6.2	7.0	6.7	6.6	6.1	6.4	6.1
5	6.7	6.3	6.7	6.4	6.7	6.3	6.9	6.4	6.5	5.9	6.3	6.1
6	6.7	6.4	6.9	6.4	6.5	6.3	7.2	6.5	6.4	6.1	6.3	6.1
7	6.6	6.3	7.0	6.4	6.5	6.2	7.3	6.9	6.4	6.0	6.2	6.1
8	6.4	6.2	6.8	6.5	6.4	6.1	7.3	7.0	6.5	6.0	6.2	6.0
9	6.5	6.3	6.9	6.5	6.4	6.0	7.2	6.9	6.7	6.2	6.2	6.0
10	6.7	6.2	6.9	6.5	6.6	6.1	7.1	6.8	6.6	6.1	6.2	6.1
11	6.7	6.2	6.8	6.5	6.4	6.2	7.0	6.7	6.6	6.1	6.3	6.1
12	6.7	6.2	6.7	6.4	6.4	6.2	7.2	6.6	6.5	6.0	6.3	6.2
13	6.7	6.2	6.7	6.5	6.2	5.9	7.2	6.6	6.4	6.1	6.3	6.0
14	6.7	6.2	6.7	6.5	6.0	5.9	7.0	5.8	6.6	6.0	6.1	5.9
15	6.7	6.3	6.8	6.6	6.4	6.0	6.8	5.8	6.3	6.1	6.1	5.8
16	6.6	6.3	6.8	6.6	6.5	6.0	6.9	6.4	6.4	6.1	6.2	6.0
17	6.5	6.3	6.9	6.7	6.6	6.0	6.7	6.5	6.6	6.3	6.3	6.1
18	6.6	6.3	7.1	6.5	6.6	6.0	6.6	6.4	6.6	6.4	6.3	6.2
19	6.8	6.5	7.0	6.5	6.5	6.0	6.8	6.3	6.6	6.4	6.3	6.2
20	6.8	6.3	6.8	6.6	6.7	6.0	6.7	6.4	6.4	6.3	6.3	6.2
21	6.8	6.4	6.9	6.4	6.6	6.5	6.8	6.3	6.4	6.3	6.3	6.2
22	7.0	6.4	6.8	6.4	6.7	6.6	6.7	6.2	6.4	6.3	6.3	5.9
23	7.0	6.4	6.6	6.3	6.8	6.6	6.6	6.2	6.4	6.3	5.9	5.8
24	6.9	6.5	6.7	6.3	7.0	6.5	6.4	6.1	6.4	6.3	6.0	5.8
25	6.8	6.4	6.8	6.4	6.9	6.5	6.6	5.9	6.4	6.2	6.0	5.9
26	6.7	6.3	6.6	6.4	6.8	6.5	6.7	6.1	6.3	6.2	6.1	5.9
27	6.6	6.4	6.6	6.4	6.8	6.3	6.3	6.1	6.3	6.2	6.0	5.9
28	6.7	6.4	6.6	6.3	6.9	6.4	6.1	6.0	6.2	6.2	6.0	6.0
29	6.8	6.5	6.4	6.1	6.8	6.4	6.2	6.0	---	---	6.0	5.9
30	6.9	6.6	6.1	6.0	7.0	6.5	6.2	5.9	---	---	6.1	5.9
31	6.8	6.5	---	---	6.9	6.6	6.3	6.0	---	---	6.1	5.9
MONTH	7.0	6.0	7.1	6.0	7.0	5.9	7.3	5.8	6.7	5.8	6.4	5.8
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	5.9	5.8	6.3	6.2	5.9	5.8	6.2	6.0	6.2	6.1	6.7	6.6
2	5.9	5.8	6.3	6.1	5.9	5.9	6.2	6.0	6.2	6.1	6.6	6.6
3	6.0	5.8	6.2	6.0	5.9	5.9	6.2	6.0	6.2	6.0	6.6	6.5
4	6.1	5.9	6.2	6.2	6.0	5.8	6.1	6.0	6.2	6.0	6.6	6.6
5	6.1	6.0	6.2	6.1	5.9	5.8	6.1	6.1	5.9	5.9	6.6	6.6
6	6.0	5.9	6.1	6.0	5.9	5.8	6.1	5.9	6.0	5.9	6.6	6.6
7	6.0	5.9	6.2	6.1	5.8	5.7	6.0	5.9	5.9	5.8	6.7	6.5
8	5.9	5.8	6.2	6.1	6.1	5.8	6.0	6.0	6.1	5.9	6.7	6.7
9	5.9	5.8	6.2	6.1	6.1	6.0	6.1	6.0	6.1	5.8	6.8	6.7
10	5.9	5.8	6.1	6.0	6.1	6.0	6.0	5.9	6.3	6.2	6.7	6.7
11	5.9	5.8	6.1	6.0	6.0	6.0	6.1	6.0	6.4	6.3	6.7	6.6
12	6.1	5.8	6.3	6.0	6.1	6.0	6.1	6.0	6.5	6.4	6.7	6.7
13	6.2	6.0	6.3	6.2	6.3	6.1	6.1	5.9	6.6	6.5	6.7	6.6
14	6.2	6.0	6.3	6.2	6.2	6.0	6.1	5.9	6.7	6.6	6.7	6.6
15	6.1	5.9	---	---	6.1	6.0	6.0	6.0	6.8	6.7	6.6	6.5
16	6.1	5.9	---	---	6.0	5.9	6.0	6.0	6.9	6.8	6.6	6.5
17	6.1	6.0	---	---	6.1	6.0	6.0	6.0	6.8	6.8	6.6	6.5
18	6.1	6.1	6.3	6.2	6.1	5.9	6.0	6.0	---	---	6.6	6.5
19	6.1	6.0	6.3	6.1	6.1	6.0	6.1	5.9	---	---	6.6	6.6
20	6.1	6.0	6.2	6.0	6.2	6.0	6.2	6.0	---	---	6.6	6.5
21	6.2	6.1	6.1	5.9	6.2	6.1	6.2	6.0	---	---	6.6	6.5
22	6.2	6.0	6.1	6.0	6.2	6.0	6.1	6.0	---	---	6.7	6.5
23	6.2	6.1	6.2	6.1	6.2	6.0	6.1	6.0	6.8	6.7	6.7	6.7
24	6.2	6.1	6.3	6.0	6.2	6.1	6.1	6.0	6.8	6.7	6.7	6.7
25	6.2	6.1	6.2	6.0	6.1	6.0	6.1	6.0	6.8	6.7	6.7	6.7
26	6.2	6.0	6.1	6.0	6.2	6.1	6.2	6.0	6.8	6.7	6.7	6.7
27	6.3	6.2	6.0	6.0	6.2	6.1	6.2	6.2	6.8	6.7	6.7	6.6
28	6.4	6.3	5.9	5.8	6.2	6.1	6.2	6.1	6.7	6.7	6.6	6.6
29	6.5	6.3	5.8	5.7	6.2	6.0	6.1	6.0	6.8	6.7	6.7	6.6
30	6.4	6.2	5.8	5.7	6.2	6.1	6.2	6.0	6.8	6.7	6.7	6.6
31	---	---	5.9	5.8	---	---	6.4	6.1	6.7	6.6	---	---
MONTH	6.5	5.8	6.3	5.7	6.3	5.7	6.4	5.9	6.9	5.8	6.8	6.5

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	24.5	22.5	14.5	13.5	8.0	7.0	6.5	5.0	4.0	3.0	10.5	10.0
2	23.0	22.5	14.0	13.0	7.5	6.5	5.0	4.0	4.5	3.5	11.0	10.0
3	23.0	22.5	14.0	13.0	8.0	7.0	4.0	3.5	4.5	3.5	11.5	10.5
4	23.5	22.5	14.0	13.5	8.5	7.5	5.0	4.0	5.0	3.5	12.5	11.0
5	23.5	22.5	13.5	12.0	9.0	7.5	7.0	5.0	6.5	4.5	13.0	12.5
6	23.5	22.5	12.0	11.0	9.5	8.5	7.0	7.0	7.0	6.0	12.5	11.5
7	23.5	23.0	12.0	11.0	9.5	9.0	7.0	6.5	6.5	5.5	12.5	11.5
8	24.0	23.5	12.0	10.5	9.0	8.0	6.5	5.5	6.5	5.0	12.0	11.5
9	24.0	22.0	10.5	10.0	8.0	6.5	5.5	5.5	6.0	4.5	12.5	11.5
10	21.5	19.5	12.0	10.5	7.5	6.5	6.0	5.0	6.0	4.5	12.5	12.0
11	19.5	19.0	14.0	12.0	8.5	7.0	5.5	3.0	7.0	5.5	13.0	12.0
12	19.5	18.5	15.0	14.0	10.0	8.5	3.5	2.5	9.0	7.0	15.0	13.0
13	19.5	18.5	14.5	13.5	11.0	10.0	5.0	3.5	10.0	8.0	16.0	15.0
14	20.0	18.5	13.0	11.5	11.0	9.0	5.5	5.0	10.5	9.5	16.0	15.5
15	20.5	19.0	11.5	10.5	9.0	8.5	6.5	5.5	10.5	9.5	16.0	15.0
16	20.5	19.0	10.5	10.5	9.5	8.5	6.0	5.0	9.5	8.0	17.5	16.0
17	21.0	20.5	10.5	10.0	9.5	9.0	5.0	2.5	8.0	7.0	17.0	16.0
18	20.0	18.0	11.5	10.0	9.0	8.5	2.5	1.5	8.0	6.5	17.0	16.0
19	18.0	17.0	12.0	11.5	9.5	8.5	2.0	1.0	9.5	7.5	17.0	16.5
20	17.0	16.0	12.5	11.5	10.0	9.0	2.0	1.0	10.5	9.0	17.5	16.5
21	16.0	14.5	12.5	12.0	9.5	7.0	3.0	2.0	10.0	9.0	17.0	15.0
22	15.0	14.0	12.0	10.0	7.0	5.0	3.5	3.0	10.5	8.5	15.0	14.0
23	16.0	14.5	10.0	9.0	6.0	5.0	4.0	3.0	11.5	9.5	14.5	14.0
24	16.5	15.0	9.0	8.5	6.0	5.5	3.5	3.0	13.0	11.0	14.5	14.0
25	17.5	16.5	9.5	8.5	6.0	5.5	4.5	3.5	12.0	11.5	15.5	14.5
26	18.0	17.0	10.5	9.5	7.5	6.0	5.0	4.0	12.5	11.5	16.0	15.5
27	18.0	16.5	12.0	10.5	6.5	6.0	5.5	4.5	12.5	11.5	16.0	15.5
28	16.5	15.0	13.5	11.5	7.0	6.5	6.5	5.0	11.5	10.5	16.5	16.0
29	15.0	13.5	14.0	12.5	7.5	7.0	6.0	4.5	---	---	17.0	16.0
30	14.5	13.5	12.5	8.5	7.0	6.5	4.5	3.5	---	---	17.5	17.0
31	15.0	14.0	---	---	7.0	6.5	4.5	4.0	---	---	17.5	17.0
MONTH	24.5	13.5	15.0	8.5	11.0	5.0	7.0	1.0	13.0	3.0	17.5	10.0
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	18.0	17.5	21.0	20.0	27.5	26.0	---	---	---	---	29.5	28.5
2	18.0	17.5	21.5	20.0	28.0	26.5	29.5	28.0	---	---	29.5	28.5
3	19.5	18.0	23.5	21.5	28.0	26.5	28.0	27.5	---	---	28.5	28.0
4	21.0	19.5	23.5	22.5	28.0	26.5	29.5	28.0	---	---	28.0	27.5
5	21.0	19.5	24.0	22.5	28.0	26.0	31.0	29.0	---	---	28.5	27.5
6	19.5	17.0	24.5	23.0	28.0	26.5	32.0	30.0	---	---	29.0	27.5
7	18.0	17.0	24.5	23.5	28.0	26.5	33.0	31.0	---	---	29.0	28.0
8	19.0	17.5	25.0	24.0	26.5	25.5	33.5	31.5	29.0	27.5	28.0	26.5
9	19.5	18.5	25.5	24.5	26.5	24.5	33.0	31.0	30.5	28.5	27.5	26.0
10	19.0	18.0	24.5	23.5	27.0	24.5	33.5	30.5	31.0	29.5	27.5	26.0
11	18.5	17.5	24.0	22.5	27.5	25.0	32.0	31.5	31.0	29.5	28.0	26.5
12	19.0	17.0	23.5	22.0	28.0	26.0	32.5	30.5	31.5	30.0	28.0	27.0
13	20.5	19.0	24.0	22.5	29.0	27.0	33.0	31.0	31.5	30.0	28.0	26.5
14	20.5	19.0	24.0	22.5	29.5	27.5	33.0	31.0	30.5	30.0	27.5	27.0
15	20.0	18.5	---	---	29.0	28.5	32.5	31.5	30.0	29.0	29.0	27.5
16	20.5	18.5	---	---	29.0	28.0	32.5	31.0	29.5	29.0	29.0	28.0
17	21.0	20.0	---	---	29.0	27.5	32.0	30.5	31.5	30.0	28.0	27.5
18	22.0	20.5	26.0	24.0	29.0	28.5	32.0	30.0	---	---	28.0	27.5
19	22.0	21.0	25.5	24.0	29.0	27.5	31.0	29.5	---	---	28.0	27.0
20	22.0	21.0	27.0	25.0	30.0	28.5	32.5	30.0	---	---	28.0	27.0
21	22.0	21.0	26.5	25.5	30.5	29.0	32.5	30.5	---	---	27.0	26.5
22	21.5	20.5	26.5	25.5	30.5	29.0	31.5	30.5	---	---	27.5	26.5
23	21.5	21.0	26.0	25.0	30.0	29.0	30.5	30.5	30.0	28.0	27.5	26.5
24	21.5	20.5	25.0	24.0	30.0	29.0	31.0	28.5	29.0	28.0	26.5	25.5
25	20.5	19.5	24.5	23.5	31.0	29.0	30.5	29.0	30.0	28.5	27.0	26.0
26	19.5	18.5	24.5	23.0	31.0	29.5	30.0	28.5	30.5	29.0	28.0	26.5
27	18.5	17.5	25.0	23.5	31.5	29.5	29.0	28.0	30.0	29.5	27.5	26.0
28	19.5	18.0	25.5	24.0	32.0	30.0	---	---	30.0	29.0	27.0	26.0
29	20.5	19.5	25.5	23.0	31.0	30.0	---	---	29.5	29.0	26.0	25.0
30	21.5	20.5	25.5	24.0	31.5	30.0	---	---	29.5	28.5	25.0	24.5
31	---	---	26.5	25.5	---	---	---	---	30.0	28.5	---	---
MONTH	22.0	17.0	27.0	20.0	32.0	24.5	33.5	27.5	31.5	27.5	29.5	24.5

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.1	5.5	8.2	6.8	11.2	10.4	10.9	10.4	13.3	12.9	10.6	10.2
2	6.5	5.4	7.4	7.1	11.5	10.9	11.5	11.0	13.4	13.0	10.8	10.5
3	6.4	5.8	7.7	6.8	11.4	10.9	11.6	11.4	13.5	13.0	10.7	10.4
4	6.8	5.8	7.3	6.9	11.6	10.7	11.4	11.0	---	---	10.5	9.8
5	6.6	5.5	7.5	7.2	11.1	10.4	11.1	10.6	---	---	9.7	9.2
6	6.1	4.8	7.7	7.5	10.9	9.8	11.5	10.2	---	---	9.8	9.5
7	5.3	4.4	8.0	7.7	10.4	9.9	11.6	9.3	---	---	10.0	9.8
8	4.8	4.1	8.2	8.0	10.5	10.2	12.0	9.6	---	---	10.0	9.8
9	6.1	4.7	8.7	8.3	11.0	10.6	11.9	11.5	---	---	10.3	9.9
10	6.6	6.0	9.0	8.4	11.2	10.9	11.9	9.6	---	---	10.4	10.0
11	6.7	6.3	8.6	7.1	11.4	10.6	11.7	9.2	---	---	10.3	9.8
12	7.1	6.4	7.9	6.4	10.9	10.2	12.5	10.8	12.6	12.1	9.9	9.4
13	7.2	6.7	7.4	6.5	10.4	9.4	12.5	11.7	12.5	10.8	9.5	8.9
14	7.9	6.6	7.7	7.2	10.1	9.5	11.7	10.7	10.8	9.8	9.0	8.4
15	7.8	6.7	8.5	7.7	10.5	10.2	11.0	10.4	11.1	9.9	8.7	8.1
16	7.6	6.0	8.8	8.1	10.6	10.1	11.2	10.8	11.0	9.0	8.9	8.4
17	6.7	6.2	9.4	8.8	10.4	10.1	12.2	11.2	13.1	9.7	9.0	8.4
18	7.5	6.6	10.0	9.2	10.5	10.2	12.5	12.1	13.1	12.6	9.1	8.7
19	8.3	7.3	9.3	8.5	10.6	10.2	12.7	12.4	13.0	11.1	9.0	8.7
20	8.4	7.7	8.7	7.7	10.4	10.1	13.1	12.5	11.2	10.2	9.0	8.5
21	8.4	7.8	8.5	8.0	10.7	10.1	13.1	12.8	10.5	10.2	9.2	8.7
22	8.5	8.0	9.3	8.3	11.4	10.8	13.0	12.7	10.5	9.9	9.5	8.1
23	8.1	7.2	9.6	9.0	11.6	11.4	13.1	12.8	10.2	9.1	9.0	8.2
24	7.9	7.3	10.5	9.6	11.5	11.4	13.2	12.6	9.7	9.0	9.2	8.6
25	7.6	7.0	10.6	9.6	11.6	11.3	12.9	12.5	10.0	9.7	9.0	8.5
26	7.8	6.8	9.8	8.9	11.3	10.7	12.8	12.5	10.4	10.1	9.1	8.6
27	7.9	7.4	9.9	8.8	11.0	10.7	12.7	12.0	10.3	10.0	9.3	8.7
28	8.6	7.8	10.0	9.2	11.0	10.6	12.6	11.6	10.2	9.9	9.3	8.7
29	9.1	8.4	9.8	8.9	10.7	10.4	12.3	12.0	---	---	8.9	8.5
30	9.9	8.8	10.3	8.8	10.8	10.5	12.9	12.3	---	---	9.2	8.1
31	9.5	7.7	---	---	10.8	10.4	13.3	12.7	---	---	9.0	7.5
MONTH	9.9	4.1	10.6	6.4	11.6	9.4	13.3	9.2	13.5	9.0	10.8	7.5
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.0	7.3	8.8	8.0	5.5	4.7	3.6	2.4	4.2	3.0	5.6	4.1
2	8.3	7.5	8.6	6.8	5.4	4.2	4.1	2.9	3.7	2.6	4.5	3.3
3	8.0	7.0	7.7	5.3	4.6	4.2	5.1	3.9	4.0	3.5	4.5	2.7
4	---	---	7.6	6.7	5.1	4.4	4.6	4.1	5.5	4.0	4.7	4.0
5	---	---	7.3	6.5	5.6	4.8	4.8	4.1	6.6	5.6	5.2	4.8
6	---	---	7.4	5.9	6.0	5.3	4.6	3.8	7.1	5.9	5.4	5.0
7	---	---	7.5	6.6	5.8	4.9	4.7	3.3	6.0	4.8	5.3	4.4
8	---	---	7.4	6.2	6.0	5.5	3.8	1.6	6.0	4.4	5.5	5.3
9	---	---	6.4	5.7	6.0	5.1	2.3	1.2	5.9	4.2	6.1	5.0
10	---	---	6.1	5.4	5.7	4.0	2.0	1.5	4.8	3.9	6.2	5.6
11	---	---	6.4	5.8	4.2	2.6	4.9	4.4	4.7	3.4	5.6	4.4
12	8.2	7.3	6.1	5.2	3.3	2.8	5.1	4.1	3.9	2.5	5.6	5.2
13	7.8	6.3	6.0	5.1	3.3	3.1	4.8	3.7	3.2	2.7	5.8	4.9
14	8.0	6.0	5.4	4.3	3.6	3.1	5.0	3.7	4.0	3.2	6.0	4.9
15	8.2	7.7	---	---	4.0	3.6	4.7	3.8	4.9	4.3	5.1	3.7
16	7.5	6.0	---	---	4.2	3.7	4.6	3.4	5.1	3.5	4.4	3.4
17	6.5	5.9	---	---	4.6	4.2	3.9	3.6	4.2	1.8	4.8	4.0
18	6.5	6.2	6.3	5.2	4.8	4.2	4.4	4.0	---	---	5.4	4.8
19	6.8	5.8	7.1	6.0	4.9	4.4	4.6	3.9	---	---	5.6	5.4
20	7.6	6.6	6.1	4.9	4.9	4.2	4.5	3.4	---	---	5.9	5.2
21	8.3	7.1	5.6	4.2	5.0	4.1	4.3	2.4	---	---	6.2	5.6
22	8.7	7.4	5.7	5.1	5.6	4.7	2.7	1.3	---	---	5.6	4.8
23	8.5	7.7	6.1	5.3	5.5	3.8	2.4	1.5	5.3	4.0	6.5	4.7
24	8.4	7.6	5.5	5.1	5.4	4.2	2.7	2.4	5.6	4.5	6.3	5.3
25	8.9	8.3	6.0	5.5	4.3	2.6	3.3	2.7	4.6	3.2	6.0	5.3
26	9.3	8.5	5.8	5.0	3.9	3.1	4.4	3.3	4.4	3.3	5.7	4.9
27	9.6	9.2	5.7	4.9	4.0	3.4	3.9	2.4	4.3	3.1	5.7	3.6
28	10.9	8.9	5.9	5.1	4.1	3.2	2.6	2.0	4.9	4.1	5.0	4.5
29	10.7	9.4	6.2	5.6	4.4	3.2	3.0	1.9	5.7	5.0	5.2	4.6
30	9.6	8.7	6.3	5.7	3.5	2.7	3.3	2.5	6.0	5.0	5.5	4.9
31	---	---	6.0	5.2	---	---	4.0	3.3	5.4	4.2	---	---
MONTH	10.9	5.8	8.8	4.2	6.0	2.6	5.1	1.2	7.1	1.8	6.5	2.7

02214265 OCMULGEE RIVER NEAR BONAIRE, GA.

LOCATION.--Lat 32°32'33", long 83°32'13", Houston-Twiggs County line, Hydrologic Unit 03070104, at bridge on State Highway 96, 0.4 mi (0.6 km) downstream from Flat Creek and 3.5 mi (5.6 km) east of Bonaire.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", station 02210000.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT 04...	0915	1390	6.7	18.0	20.0	6.9
NOV 01...	1250	1540	6.8	14.0	13.5	8.4
DEC 06...	1000	4070	6.9	9.0	7.0	9.9
JAN 10...	1100	5190	7.1	2.0	5.0	11.0
FEB 07...	1145	3150	7.3	4.0	5.0	12.0
MAR 07...	1000	5050	6.7	12.0	10.5	7.5
APR 04...	1000	--	7.0	24.0	18.0	6.6
MAY 02...	0930	2970	7.1	21.5	20.0	7.3
JUN 13...	1100	1070	6.9	30.0	26.0	5.5
JUL 11...	1030	1090	6.8	29.0	29.0	5.1
AUG 08...	1040	5060	6.6	33.5	26.0	4.8

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA+MG) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 04...	100	60	15	.8	2300	20	27	.50	.17	.22	9.0
NOV 01...	101	55	9	.8	91	21	26	.43	.13	.14	5.0
DEC 06...	81	50	18	1.2	930	17	20	.39	.12	.14	4.0
JAN 10...	65	60	27	1.4	930	13	16	.34	.06	.08	9.0
FEB 07...	69	40	19	1.4	1500	16	19	.46	.16	.14	2.0
MAR 07...	65	60	22	1.3	2300	15	17	--	--	--	--
APR 04...	56	75	50	1.2	91	14	14	.31	.03	.08	6.0
MAY 02...	72	40	24	1.6	930	16	20	.47	.05	.16	3.0
JUN 13...	96	35	12	.8	70	19	24	.65	.09	.21	2.0
JUL 11...	124	35	12	1.2	70	--	--	.71	.13	.20	4.5
AUG 08...	90	70	23	1.6	40	--	--	.32	.05	.11	7.0

ALTAMAHA RIVER BASIN

02215260 OCMULGEE RIVER AT ABBEVILLE, GA.

LOCATION.--Lat 31°59'47", long 83°16'43", Wilcox-Telfair County line, Hydrologic Unit 03070104, at bridge on State Highway 30, 1 mi (1.6 km) east of Abbeville.

DRAINAGE AREA.--4,450 mi² (11,500 km²), approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", station 02210000.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
04...	0715	2870	7.0	14.0	20.0	8.1
NOV						
01...	1040	2260	7.2	13.0	13.0	8.5
JAN						
10...	0900	8900	7.2	5.0	6.0	9.0
FEB						
07...	1020	5720	7.5	2.0	5.0	9.6
APR						
04...	0800	10300	7.0	22.5	18.5	6.7
MAY						
02...	0820	3690	7.2	22.0	20.0	4.9
JUN						
13...	0915	1720	7.2	27.5	25.0	6.7
JUL						
11...	0700	1490	7.3	24.0	28.0	6.7
AUG						
08...	0845	4650	6.8	27.5	26.0	6.1

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT											
04...	81	70	17	.3	91	21	22	.37	.15	.14	7.0
NOV											
01...	104	40	10	.4	150	28	32	.40	.04	.10	4.0
JAN											
10...	65	55	20	1.7	430	17	18	.26	.02	.06	6.0
FEB											
07...	72	40	12	1.0	430	20	21	.42	.10	.06	2.0
APR											
04...	65	60	26	1.0	150	20	20	.22	.04	.06	5.0
MAY											
02...	85	30	22	1.6	150	22	27	.25	<.02	.13	5.0
JUN											
13...	110	35	14	.4	70	30	34	.82	<.02	.15	1.5
JUL											
11...	128	35	15	.4	<30	--	--	.69	<.02	.12	6.0
AUG											
08...	84	70	35	1.0	<30	--	--	.40	<.02	.13	6.0

02215500 OCMULGEE RIVER AT LUMBER CITY, GA.

LOCATION.--Lat 31°55'06", long 82°40'26", Telfair-Jeff Davis County line, Hydrologic Unit 03070104, near left bank on downstream end of pier of bridge on U.S. Highway 341 at Lumber City, 500 ft (152 m) downstream from Southern Railway bridge, 1 mi (1.6 km) upstream from Little Ocmulgee River, and 12 mi (19.3 km) upstream from confluence with Oconee River.
DRAINAGE AREA.--5,180 mi² (13,400 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1936 to current year. Gage-height records collected at same site since 1908 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1504: 1937.

GAGE.--Water-stage recorder. Datum of gage is 87.48 ft (26.66 m) above mean sea level. Prior to Nov. 8, 1937, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow regulated by Lloyds Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", station 02210000.)

AVERAGE DISCHARGE.--41 years, 5,663 ft³/s (160 m³/s), 14.85 in/yr (377.2 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70,000 ft³/s (1,980 m³/s) Dec. 8, 1948; maximum gage height, 22.7 ft (6.92 m) Dec. 9, 1948; minimum discharge, 800 ft³/s (22.7 m³/s) Oct. 30 to Nov. 3, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known since at least 1841, 98,400 ft³/s (2,790 m³/s) Jan. 21, 1925, from rating extended above 67,000 ft³/s (1,900 m³/s) on basis of records of peak flow for stations on Ocmulgee, Oconee, and Altamaha Rivers; maximum stage known, 26.3 ft (8.02 m) Jan. 21, 1925, backwater from Oconee River.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 23,600 ft³/s (668 m³/s) April 1, gage height, 14.89 ft (4.538 m); minimum, 1,420 ft³/s (40.2 m³/s) July 25, 26.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2740	3380	11700	9480	8260	6230	23100	4710	2820	1930	1660	2120
2	2810	3230	10900	9600	8030	6510	23100	4750	3130	1950	1900	2230
3	3000	3140	10300	10100	7820	6730	20900	4690	3260	2200	2170	2340
4	3260	3040	10100	11900	7580	7070	18000	4510	3090	2210	2660	2340
5	3390	2940	10100	13300	7320	8480	15400	4310	2850	2140	3150	2390
6	3190	2930	10100	14000	6990	9860	13200	4130	2690	2260	3220	2300
7	2810	2900	10000	14100	6730	11800	12200	3900	2490	2490	3350	2170
8	2540	2790	10200	13500	6560	13800	11800	3800	2360	2520	3570	2140
9	2530	2690	10700	12900	6480	15000	12100	3790	2310	2320	3760	2160
10	2670	2600	11200	12400	6440	15500	12700	3740	2280	2090	3930	2120
11	2680	2530	11300	11900	6350	15800	13100	3600	2240	1910	4090	2090
12	2580	2470	11100	11300	6110	15900	12800	3360	2280	1800	4270	2120
13	2760	2440	10900	10900	5730	17900	11900	3070	2120	1720	4480	2200
14	3140	2470	10900	11000	5530	20300	10900	2870	1970	1660	4320	2330
15	3450	2470	11000	12000	5490	20400	9980	2760	1890	1620	3320	2330
16	3690	2460	11100	13100	5430	18500	9360	2670	1820	1590	2810	2290
17	4290	2540	11200	13800	5280	16300	8810	2590	1790	1560	2520	2260
18	5240	2740	11200	13700	5090	14800	8150	2620	1770	1550	2400	2570
19	5190	2940	11200	13400	4900	14000	7430	2670	1760	1560	2420	3180
20	4740	3200	11000	13200	4910	13700	6850	2550	1760	1540	2410	3290
21	5170	3550	11100	13400	5010	13400	6400	2490	1750	1500	2440	2840
22	5420	3900	11300	13500	5020	13300	5950	2540	1760	1470	2340	2590
23	5220	4120	11500	13300	4920	13500	5300	2590	1830	1460	2260	2350
24	5020	4240	11500	12800	4850	13600	4710	2490	1880	1440	2240	2350
25	4930	4200	11200	12100	5090	13300	4460	2470	1890	1430	2220	2380
26	4930	4120	10800	11200	5310	12800	4360	2470	2010	1430	2230	2260
27	4910	4950	10400	10400	5410	12700	4360	2460	2080	1460	2280	2230
28	4550	7310	10000	9750	5810	13400	4440	2440	2120	1470	2330	2380
29	4000	9530	9670	9270	---	14900	4540	2500	2070	1490	2210	2340
30	3680	11300	9370	8850	---	17300	4630	2530	2040	1510	2110	2210
31	3520	---	9320	8520	---	20500	---	2610	---	1580	2090	---
TOTAL	118050	113120	332360	368670	168450	427280	310930	98680	66110	54860	87160	70900
MEAN	3808	3771	10720	11890	6016	13780	10360	3183	2204	1770	2812	2363
MAX	5420	11300	11700	14100	8260	20500	23100	4750	3260	2520	4480	3290
MIN	2530	2440	9320	8520	4850	6230	4360	2440	1750	1430	1660	2090
CFSM	.74	.73	2.07	2.30	1.16	2.66	2.00	.61	.43	.34	.54	.46
IN.	.85	.81	2.39	2.65	1.21	3.07	2.23	.71	.47	.39	.63	.51
CAL YR 1976	TOTAL	2193420	MEAN	5993	MAX	28600	MIN	2040	CFSM	1.16	IN	15.75
WTR YR 1977	TOTAL	2216570	MEAN	6073	MAX	23100	MIN	1430	CFSM	1.17	IN	15.92

ALTAMAHA RIVER BASIN

02215500 OCMULGEE RIVER AT LUMBER CITY, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV 01...	0815	3410	7.3	11.0	14.0	7.0
FEB 07...	0845	6680	7.4	-2.0	4.5	11.4
MAY 03...	0825	4720	7.6	20.5	21.0	8.6
JUL 12...	1045	1810	7.7	31.0	30.0	5.6
AUG 09...	1420	3770	7.2	32.5	29.0	6.4

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA,MG) (MG/L)
NOV 01...	101	35	12	.4	91	33
FEB 07...	73	60	12	.9	91	22
MAY 03...	86	25	22	1.3	73	27
JUL 12...	136	30	20	--	30	--
AUG 09...	87	90	28	--	--	--

DATE	ALKA- LINITY AS CaCO3 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 01...	32	--	.34	.04	.08	5.0
FEB 07...	22	--	.30	<.02	.04	4.0
MAY 03...	30	--	.11	<.02	.11	4.0
JUL 12...	--	15	.55	<.02	.09	3.0
AUG 09...	--	15	.44	<.02	.15	5.0

ALTAMAHA RIVER BASIN

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02216610 TILLMAN MILL CREEK NEAR LUMBER CITY, GA.
(Formerly published as Ocmulgee River Tributary near Lumber City)

LOCATION.--Lat 31°58'53", long 82°38'32", Wheeler County, Hydrologic Unit 03070104, on right bank 18 ft (5.5 m) upstream from culvert on State Highway 19, 4.3 mi (6.9 km) northeast of Lumber City, and 4.7 mi (7.6 km) upstream from mouth.

DRAINAGE AREA.--2.71 mi² (7.02 km²).

PERIOD OF RECORD.--Annual maximum, water years 1966-74, October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 168 ft (51 m), from topographic map. Prior to Oct. 1, 1974, at datum 2.00 ft (0.61 m) lower.

REMARKS.--Records fair. Figures of runoff for the 1975 water year have been found to be in error and should not be used.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,070 ft³/s (30.3 m³/s) May 23, 1973, gage height, 9.59 ft (2.923 m), present datum, from floodmarks; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 140 ft³/s (3.96 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)
Nov. 28	0130	370 10.5	5.95 1.814	Mar. 31	0445	*491 13.9	6.63 2.021

Minimum discharge, no flow on many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	1.2	7.4	5.1	4.5	3.0	5.8	.13	.00	.00	.00	.00
2	.07	1.1	6.3	4.3	3.8	2.3	3.3	.19	.00	.00	.00	.00
3	.04	1.1	5.8	4.8	4.7	2.1	2.6	.11	.00	.00	.00	.00
4	.01	1.1	5.1	18	5.4	33	2.1	.05	.00	.00	.00	1.2
5	.00	.99	4.9	9.8	4.0	13	4.3	.03	.00	.00	.00	2.7
6	.00	1.1	5.6	7.9	3.2	15	2.6	.00	.00	.00	.00	.72
7	.02	1.2	14	15	3.2	36	1.6	.00	.00	.00	.00	.26
8	.30	1.1	8.1	7.9	2.9	9.5	1.4	.00	.00	.00	.00	.09
9	2.1	1.1	5.6	6.8	2.9	6.6	1.1	.00	.00	.00	.00	.00
10	.35	1.2	5.6	9.1	2.9	6.1	.95	.00	.00	.00	.00	.00
11	.12	1.3	12	6.1	2.7	6.1	.86	.00	.00	.00	.00	.00
12	.07	1.3	9.8	5.8	2.6	5.4	.72	.00	.00	.00	.00	.00
13	.03	1.3	13	5.8	3.2	112	.59	.00	.00	.00	.00	.00
14	.05	1.3	7.9	44	2.7	12	.53	.00	.00	.00	.00	.00
15	.03	2.5	15	17	2.6	7.6	.48	.00	.00	.00	.00	.00
16	.01	1.8	7.9	8.4	2.1	6.3	.38	.00	.00	.00	.00	.00
17	19	3.2	6.1	6.8	2.0	5.4	.29	.00	.00	.00	.00	.00
18	1.7	2.8	5.1	6.6	2.0	5.1	.26	.00	.00	.00	.00	.00
19	.66	1.6	4.7	5.8	2.3	4.7	.29	.00	.00	.00	.00	.00
20	35	2.2	6.3	5.8	3.3	4.7	.22	.00	.00	.00	.00	.00
21	3.8	1.7	7.1	5.6	2.3	4.5	.22	.00	.00	.00	.00	.00
22	1.9	1.1	4.7	5.1	1.9	5.8	.22	.00	.00	.00	.00	.00
23	1.4	.99	4.5	4.7	1.7	3.5	1.3	.00	.00	.00	.00	.00
24	1.3	.99	4.0	7.9	12	3.0	1.2	.00	.00	.00	.00	.00
25	2.2	.99	4.7	7.6	3.5	2.6	.48	.00	.00	.00	1.7	.00
26	4.4	9.4	20	5.4	2.3	2.7	.26	.00	.00	.00	2.4	.00
27	1.9	29	6.3	6.3	9.1	2.6	.19	.00	.00	.00	.53	.00
28	1.5	99	6.3	6.1	6.1	2.3	.11	.00	.00	.00	.09	.00
29	1.3	32	7.1	4.7	---	2.3	.07	.00	.00	.00	.02	.00
30	1.4	11	4.9	3.8	---	2.1	.07	.00	.00	.00	.00	.00
31	1.6	---	8.1	4.5	---	8.4	---	.00	---	.00	.00	---
TOTAL	82.42	216.66	233.9	305.7	101.9	335.7	34.49	.51	.00	.00	4.74	4.97
MEAN	2.66	7.22	7.55	9.86	3.64	10.8	1.15	.016	.000	.000	.15	.17
MAX	35	99	20	48	12	112	5.8	.19	.00	.00	2.4	2.7
MIN	.00	.99	4.0	3.8	1.7	2.1	.07	.00	.00	.00	.00	.00
CFSM	.98	2.66	2.79	3.64	1.34	3.99	.42	.006	.000	.000	.06	.06
IN.	1.13	2.97	3.21	4.19	1.40	4.61	.47	.01	.00	.00	.07	.07
CAL YR 1976	TOTAL	1258.59	MEAN	3.44	MAX	99	MIN	.00	CFSM	1.27	IN	17.27
WTR YR 1977	TOTAL	1320.99	MEAN	3.62	MAX	112	MIN	.00	CFSM	1.34	IN	18.13

ALTAMAHA RIVER BASIN

02217500 MIDDLE OCONEE RIVER NEAR ATHENS, GA.

LOCATION.--Lat 33°56'48", long 83°25'22", Clarke County, Hydrologic Unit 03070101, on left bank 0.5 mi (0.8 km) upstream from U.S. Highway 29, 2 mi (3.2 km) west of Athens, and 5 mi (8.0 km) upstream from Barber Creek.

DRAINAGE AREA.--398 mi² (1,030 km²).

PERIOD OF RECORD.--October 1901 to October 1902, January 1929 to March 1932, April 1937 to current year. Monthly discharge only for some periods, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 555.66 ft (169.37 m) above mean sea level. Oct. 11, 1901 to Oct. 25, 1902, non-recording gage at site 1 mi (1.6 km) upstream at different datum. Jan. 16, 1929 to Mar. 15, 1932, and Apr. 29, 1937 to Sept. 30, 1940, water-stage recorder at site 4 mi (6.4 km) downstream at different datum.

REMARKS.--Records good. Records of chemical analyses for the water years 1968-74 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--43 years, 524 ft³/s (14.8 m³/s), 17.88 in/yr (454.2 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 19,600 ft³/s (555 m³/s) Feb. 28, 1902, gage height, 25.5 ft (7.772 m), site and datum then in use; minimum daily, 26 ft³/s (0.74 m³/s) Sept. 7, 1957.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,800 ft³/s (108 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 31	2400	*5050 143	11.92 3.633

Minimum discharge, 109 ft³/s (3.09 m³/s) July 23, gage height, 1.11 ft (0.338 m)

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	296	353	546	486	550	676	3060	463	351	240	175	125
2	213	288	446	451	494	592	1250	467	328	332	171	119
3	187	267	407	453	495	550	1100	457	308	310	208	116
4	177	257	378	513	503	596	1610	450	292	238	241	119
5	173	246	358	496	507	768	2540	469	284	214	202	137
6	173	238	363	483	503	627	2930	424	274	200	177	153
7	212	235	821	776	490	1010	1510	403	284	190	161	144
8	532	235	846	876	480	1060	1080	393	308	180	170	500
9	666	231	557	950	471	804	924	382	272	170	174	337
10	492	232	468	2610	467	704	832	362	258	163	163	229
11	305	238	432	3210	465	660	776	351	247	157	165	189
12	254	244	495	1400	462	668	732	349	248	148	141	168
13	230	246	854	1040	487	1200	684	343	269	152	130	151
14	229	250	703	985	576	1170	643	332	258	155	138	147
15	214	533	817	1200	539	768	614	325	274	147	126	152
16	204	492	1210	1240	505	656	586	321	254	141	129	288
17	213	359	820	1030	480	600	597	311	297	140	137	1570
18	234	313	622	901	465	555	579	320	320	137	200	1270
19	221	292	543	833	459	530	562	304	288	134	280	556
20	233	283	538	783	455	537	544	300	263	130	200	374
21	319	283	750	762	449	664	520	316	245	121	169	301
22	271	277	629	719	445	1800	509	307	237	116	153	251
23	235	265	538	684	441	1670	537	301	244	111	145	223
24	228	259	500	648	652	944	732	307	241	116	146	210
25	237	257	493	604	904	748	676	317	232	117	156	196
26	368	263	915	553	632	660	562	381	224	123	165	191
27	336	303	941	508	620	618	513	1100	234	140	174	199
28	270	459	675	514	840	583	475	747	223	155	166	210
29	249	1110	597	644	---	596	463	518	210	207	149	198
30	250	945	532	637	---	1470	450	410	207	235	138	185
31	358	---	505	580	---	3560	---	375	---	212	130	---
TOTAL	8579	10253	19299	27569	14836	28044	28590	12605	7974	5331	5179	9008
MEAN	277	342	623	889	530	905	953	407	266	172	167	300
MAX	666	1110	1210	3210	904	3560	3060	1100	351	332	280	1570
MIN	173	231	358	451	441	530	450	300	207	111	126	116
CFSM	.70	.86	1.57	2.23	1.33	2.27	2.39	1.02	.67	.43	.42	.75
IN.	.80	.96	1.80	2.58	1.39	2.62	2.67	1.18	.75	.50	.48	.84

CAL YR 1976	TOTAL	247588	MEAN	676	MAX	11600	MIN	145	CFSM	1.70	IN	23.14
WTR YR 1977	TOTAL	177267	MEAN	486	MAX	3560	MIN	111	CFSM	1.22	IN	16.57

ALTAMAHA RIVER BASIN

02217500 MIDDLE OCONEE RIVER NEAR ATHENS, GA.--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TUR- BID- ITY (NTU)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT 05...	1100	175	--	19	9.0	--
NOV 12...	1300	242	--	8	5.2	--
DEC 21...	1445	812	--	63	138	75
FEB 02...	1240	486	--	83	109	43
MAR 18...	1255	548	24	63	93	72
APR 27...	1030	516	31	57	79	78
JUN 08...	1250	308	24	47	39	85
JUL .22...	1225	116	8.0	22	6.9	90
SEP 02...	1055	118	11	25	8.0	87

ALTAMAHA RIVER BASIN

02217740 NORTH OCONEE RIVER ABOVE ATHENS, GA.

LOCATION.--Lat 33°58'28", long 83°22'56", Clarke County, Hydrologic Unit 03070101, at city of Athens water works intake, 0.3 mi (0.5 km) north of Athens city limit.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT 19...	1000	312	7.2	10.0	10.0	9.6
NOV 17...	1235	549	6.7	11.0	8.0	9.8
DEC 27...	1455	942	6.9	11.0	3.5	12.9
JAN 26...	1600	576	6.8	8.0	2.5	12.6
MAR 01...	1215	683	7.0	13.0	7.0	10.7
APR 06...	1415	--	6.6	14.5	13.5	8.2
MAY 11...	1125	298	7.0	18.0	15.0	8.8
JUN 16...	0715	181	7.2	25.0	22.5	6.3
JUL 13...	1105	175	7.3	33.5	26.0	6.4
AUG 15...	1200	179	7.2	30.0	25.0	7.3
SEP 13...	1500	119	7.3	30.5	23.5	7.2

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (EC BROTH) (MPN)	CONFIRMED COLIFORM (MPN)	HARDNESS (CA, MG) (MG/L)
OCT 19...	59	30	16	.6	430	23000	18
NOV 17...	54	40	13	.9	150	4300	15
DEC 27...	44	70	28	.6	1615	9300	14
JAN 26...	50	25	12	.3	210	930	14
MAR 01...	49	60	27	.8	930	3900	16
APR 06...	38	180	150	1.3	930	23000	12
MAY 11...	54	45	32	.4	430	4300	18
JUN 16...	58	70	48	.5	--	--	18
JUL 13...	72	--	28	.4	640	9300	--
AUG 15...	71	--	30	.7	6800	32000	--
SEP 13...	62	--	140	.5	930	2300	--

02217740 NORTH OCONEE RIVER ABOVE ATHENS, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	ALKA- LINITY AS CACO ₃ (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 19...	22	.26	<.02	.03	1600	190	4.0
NOV 17...	20	.20	<.02	.03	1400	160	2.0
DEC 27...	17	.30	.09	.06	1800	160	3.0
JAN 26...	17	.34	.10	.02	79	90	1.0
MAR 01...	18	.29	.02	.04	1600	80	1.0
APR 06...	10	.21	.03	.08	5700	140	5.0
MAY 11...	21	.44	<.02	.05	2300	250	2.0
JUN 16...	22	.53	<.02	.06	1800	245	6.0
JUL 13...	--	.61	.02	.03	--	--	<1.0
AUG 15...	--	.39	<.02	.03	--	--	1.0
SEP 13...	--	.40	<.02	.07	--	--	2.0

ALTAMAHA RIVER BASIN

02218000 OCONEE RIVER NEAR WATKINSVILLE, GA.

LOCATION.--Lat 33°51'21", long 83°19'35", Oconee-Clarke County line, Hydrologic Unit 03070101, at bridge on Barnett Shoals Road, 1 mi (1.6 km) upstream from Barnett Shoals Dam and 4 mi (6.4 km) east of Watkinsville.

DRAINAGE AREA.--783 mi² (2,030 km²).

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Water-discharge records for water years 1901-2 are published in records of the Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
19...	1130	416	7.2	12.0	12.0	9.9
NOV						
17...	1105	776	6.7	9.5	8.0	10.2
DEC						
27...	1540	1670	7.2	11.5	4.0	13.0
JAN						
26...	1510	851	6.7	3.0	3.0	13.8
MAR						
01...	1130	1110	7.2	12.5	7.5	10.9
APR						
06...	1510	6160	6.7	16.0	13.5	9.7
MAY						
11...	1025	585	6.7	19.5	16.5	7.2
JUN						
15...	1450	478	7.1	33.0	25.5	6.5
JUL						
13...	0955	320	7.3	31.5	26.0	5.4
AUG						
15...	1350	344	6.8	28.0	28.0	6.5
SEP						
13...	1410	300	6.9	29.5	24.5	6.8

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA,MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT												
19...	71	25	15	2.8	23000	18	22	--	.61	.26	.13	7.0
NOV												
17...	61	50	21	2.4	9650	14	18	--	.39	.07	.14	6.0
DEC												
27...	47	60	52	1.3	2300	13	15	--	.40	.07	.12	6.0
JAN												
26...	55	30	16	1.6	9300	14	16	--	.54	.17	.09	1.0
MAR												
01...	53	70	39	1.3	2300	13	16	--	.49	.08	.11	2.0
APR												
06...	40	240	160	1.8	21000	12	12	--	.30	.04	.17	7.0
MAY												
11...	62	30	21	1.1	19000	15	19	--	.80	.11	.15	2.0
JUN												
15...	70	45	17	1.4	430	16	19	--	.88	.07	.18	2.0
JUL												
13...	89	--	15	1.2	210	--	--	9	1.2	.07	.25	1.0
AUG												
15...	85	--	20	.7	930	--	--	14	1.1	.03	.21	1.0
SEP												
13...	74	--	108	.8	4300	--	--	26	.90	<.02	.25	2.0

02218500 OCONEE RIVER NEAR GREENSBORO, GA.

LOCATION.--Lat 33°34'52", long 83°16'22", Greene County, Hydrologic Unit 03070101, on right bank 300 ft (91 m) downstream from bridge on State Highway 12, 1 mi (1.6 km) downstream from Town Creek, 5 mi (8.0 km) upstream from Apalachee River, 5 mi (8.0 km) west of Greensboro, and 12 mi (19.3 km) downstream from Barnett Shoals Dam.

DRAINAGE AREA.--1,090 mi² (2,820 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1903 to September 1932, October 1936 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 262: 1908-9. WSP 822: Drainage area. WSP 1304: 1919-23. WSP 1504: 1908, 1912, 1915-16, 1917(M), 1919-23(M).

GAGE.--Water-stage recorder. Datum of gage is 409.82 ft (124.91 m) above mean sea level, unadjusted. Prior to Nov. 8, 1938, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--70 years, 1,444 ft³/s (40.9 m³/s), 17.99 in/yr (456.9 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 66,800 ft³/s (1,890 m³/s) Aug. 26, 1908, gage height, 36.4 ft (10.79 m), from rating curve extended above 23,000 ft³/s (651 m³/s) on basis of velocity-area studies and computation of flow over Barnett Shoals Dam at gage heights 28.1 and 30.0 ft (8.56 and 9.14 m); minimum daily, 59 ft³/s (1.67 m³/s) Oct. 8, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft³/s (142 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. 12	1900	6090 172	13.18 4.017	Apr. 7	2200	5670 161	12.61 3.844
Mar. 23	1300	6210 176	13.35 4.069	Aug. 4	0300	5840 165	13.04 3.975
Apr. 2	2000	*7510 213	14.87 4.532				

Minimum daily discharge, 269 ft³/s (7.61 m³/s) July 23.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	720	866	1940	1320	1240	1750	5020	1090	859	608	784	444
2	676	853	1470	1250	1200	1520	6880	1140	797	748	1060	458
3	540	743	1180	1220	1160	1360	5970	1140	749	839	3630	437
4	486	687	1050	1340	1160	1410	2970	1090	704	786	4260	400
5	455	657	969	1380	1160	1770	3720	1070	655	660	1260	528
6	445	633	931	1320	1130	1900	4960	1060	643	578	827	510
7	443	614	2620	1590	1090	2490	5580	990	626	538	624	515
8	789	600	2840	2000	1060	2500	4880	951	643	514	565	562
9	2630	594	2070	1950	1040	2210	2600	920	668	482	597	1090
10	1940	591	1590	3950	1040	1820	2130	888	631	436	725	1040
11	1250	588	1330	5500	1030	1630	1890	848	585	435	615	811
12	872	596	2030	6130	1030	1610	1770	832	576	409	517	608
13	728	632	2860	5090	1070	3330	1670	824	566	394	493	506
14	665	623	2460	2540	1230	3040	1580	814	596	409	401	460
15	620	1600	2160	2870	1250	2520	1510	800	593	426	439	446
16	586	2900	2640	2850	1110	2010	1440	781	593	387	480	426
17	578	1460	2590	2440	1040	1690	1400	770	619	361	584	1140
18	624	1070	2160	1950	1010	1550	1380	753	626	367	762	2100
19	627	900	1680	1650	998	1470	1330	885	681	380	1200	2160
20	634	818	1510	1560	999	1940	1310	810	640	374	1050	1330
21	693	788	1670	1510	985	2040	1260	769	574	357	892	855
22	739	773	1740	1430	963	4980	1230	783	551	344	661	693
23	696	746	1570	1370	958	6190	1240	756	594	269	609	625
24	612	704	1400	1360	1290	4690	1520	748	707	301	527	543
25	605	697	1320	1470	1740	2640	1640	781	637	289	590	494
26	646	691	2430	1470	1670	2040	1460	880	603	309	537	473
27	833	785	2580	1430	1510	1780	1280	1150	618	651	730	481
28	813	996	2170	1440	1840	1660	1160	1740	615	749	743	506
29	691	2250	1760	1490	---	2520	1100	1330	586	1270	629	505
30	642	2520	1530	1400	---	2720	1080	1040	575	1560	576	477
31	680	---	1400	1270	---	3960	---	918	---	905	517	---
TOTAL	23958	28975	57650	65540	33003	74740	72960	29351	19110	17135	27884	21623
MEAN	773	966	1860	2114	1179	2411	2432	947	637	553	899	721
MAX	2630	2900	2860	6130	1840	6190	6880	1740	859	1560	4260	2160
MIN	443	588	931	1220	958	1360	1080	748	551	269	401	400
CFSM	.71	.89	1.71	1.94	1.08	2.21	2.23	.87	.58	.51	.83	.66
IN.	.82	.99	1.97	2.24	1.13	2.55	2.49	1.00	.65	.58	.95	.74
CAL YR 1976	TOTAL	630487	MEAN	1723	MAX	19300	MIN	381	CFSM	1.58	IN	21.52
WTR YR 1977	TOTAL	471929	MEAN	1293	MAX	6880	MIN	269	CFSM	1.19	IN	16.11

ALTAMAHA RIVER BASIN

02218500 OCONEE RIVER NEAR GREENSBORO, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT 19...	1330	630	7.2	12.0	12.0	9.2
JAN 26...	1400	1470	6.8	13.5	2.5	14.0
MAY 11...	0920	853	6.8	16.0	17.0	8.0
JUN 15...	1345	588	7.1	31.0	25.5	6.3
JUL 13...	0850	400	6.9	30.5	27.5	6.6

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)
OCT 19...	67	35	13	.5	750
JAN 26...	54	30	16	.8	2300
MAY 11...	60	25	23	.7	4300
JUN 15...	66	35	21	.8	430
JUL 13...	81	--	17	.2	930

DATE	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 19...	18	20	.70	.02	.08	4.0
JAN 26...	14	16	.51	.11	.06	2.0
MAY 11...	15	18	.92	.03	.11	2.0
JUN 15...	20	19	.94	<.02	.12	2.0
JUL 13...	--	--	.94	.02	.13	2.0

02219500 APALACHEE RIVER NEAR BUCKHEAD, GA.

LOCATION.--Lat 33°36'31", long 83°20'58", Morgan-Greene County line, Hydrologic Unit 03070101, at downstream side of right bank pier of bridge on State Highway 12, 2 mi (3.2 km) downstream from Hard Labor Creek, 3 mi (4.8 km) northeast of Buckhead, and 9 mi (14.5 km) upstream from mouth.

DRAINAGE AREA.--436 mi² (1,130 km²).

PERIOD OF RECORD.--January 1901 to December 1908, April 1937 to current year. Monthly discharges only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 1503: 1901-3, 1906, 1908-9, 1938(M), 1944-45(M).

GAGE.--Water-stage recorder. Datum of gage is 424.07 ft (129.26 m) above mean sea level. Prior to Dec. 31, 1908, nonrecording gage at same site at different datum. May 13, 1937 to Feb. 1, 1939, nonrecording gage at same site and datum.

REMARKS.--Records good. Diurnal fluctuation and slight regulation at times, caused by powerplants above station. Records of chemical analyses for the period November 1969 to May 1972 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--47 years, 578 ft³/s (16.4 m³/s), 18.00 in/yr (457.2 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 28,900 ft³/s (818 m³/s) Aug. 25, 1908, gage height, 27.5 ft (8.382 m), datum then in use; minimum daily, 16 ft³/s (0.45 m³/s) Oct. 13, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft³/s (142 m³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s) (m ³ /s)	Gage height (ft) (m)
Mar. 23	0500	*3880 110	12.63 3.849

Minimum discharge, 79 ft³/s (2.24 m³/s) July 22, 23, gage height, 1.19 ft (0.362 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	238	287	783	550	538	758	1440	383	263	145	380	145
2	203	275	572	506	521	625	1070	399	242	167	332	136
3	167	246	475	507	510	561	897	391	220	179	1320	130
4	148	229	421	586	513	607	939	371	205	170	2350	125
5	137	223	387	596	518	844	1160	357	197	150	1050	128
6	135	214	375	550	500	877	1920	343	191	136	495	138
7	139	206	936	718	477	1150	1550	326	184	125	356	143
8	258	204	1240	897	463	1050	1030	325	184	115	289	155
9	959	207	796	771	463	851	828	310	178	127	252	190
10	1200	227	584	1530	463	725	729	287	170	118	269	217
11	521	237	525	2970	462	673	670	272	163	103	314	193
12	343	247	864	1960	463	682	627	267	163	96	228	165
13	277	261	1320	1110	477	1150	581	266	169	91	198	147
14	243	261	1280	959	508	1170	549	261	160	103	179	136
15	223	485	889	1230	483	944	525	253	155	109	172	132
16	208	1570	1070	1230	445	747	501	249	176	105	166	162
17	207	1110	961	921	426	666	481	242	248	97	169	423
18	235	580	759	763	419	621	462	236	267	107	244	610
19	223	454	632	646	423	594	446	274	260	109	389	403
20	241	398	617	677	421	860	484	239	217	97	380	317
21	276	369	736	651	408	1090	493	238	187	89	261	252
22	265	341	715	612	399	2320	448	242	175	82	216	215
23	237	312	610	591	399	3680	447	239	177	83	191	188
24	216	298	554	605	606	2130	619	238	224	86	173	172
25	211	281	535	692	929	1150	622	266	205	83	165	164
26	235	273	1180	687	720	895	500	340	174	81	166	168
27	259	329	1550	656	666	786	429	343	182	124	186	217
28	240	450	1000	649	851	727	400	332	167	162	205	235
29	215	951	750	651	---	1010	384	342	147	322	187	210
30	212	1210	646	587	---	1170	380	304	135	647	168	189
31	252	---	590	551	---	1460	---	284	---	382	154	---
TOTAL	8923	12735	24352	26609	14471	32573	21611	9219	5785	4590	11604	6205
MEAN	288	425	786	858	517	1051	720	297	193	148	374	207
MAX	1200	1570	1550	2970	929	3680	1920	399	267	647	2350	610
MIN	135	204	375	506	399	561	380	236	135	81	154	125
CFSM	.66	.98	1.80	1.97	1.19	2.41	1.65	.68	.44	.34	.86	.48
IN.	.76	1.09	2.08	2.27	1.23	2.78	1.84	.79	.49	.39	.99	.53

CAL YR 1976	TOTAL	236894	MEAN	647	MAX	15600	MIN	111	CFSM	1.48	IN	20.21
WTR YR 1977	TOTAL	178677	MEAN	490	MAX	3680	MIN	81	CFSM	1.12	IN	15.24

ALTAMAHA RIVER BASIN

02220550 WHITTEN CREEK NEAR SPARTA, GA.

LOCATION.--Lat 33°23'13", long 83°01'29", Hancock County, Hydrologic Unit 03070101, in right bank 100 ft (30 m) upstream from bridge on State Highway 15, 5 mi (8.0 km) upstream from mouth, and 8.5 mi (13.7 km) northwest of Sparta.

DRAINAGE AREA.--15 mi² (39 km²), approximately.

PERIOD OF RECORD.--June 1960 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 395 ft (120 m), from topographic map. Prior to Aug. 17, 1963, water-stage recorder at site 100 ft (30 m) downstream at same datum.

REMARKS.--Records good except those for period of no gage-height record, July 25 to Sept. 12, which are poor.

AVERAGE DISCHARGE.--17 years, 17.1 ft³/s (0.484 m³/s), 15.48 in/yr (393.2 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,770 ft³/s (107 m³/s) Feb. 24, 1961, gage height, 16.0 ft (4.88 m), at former site; minimum daily, 0.76 ft³/s (0.022 m³/s) Oct. 5, 6, 12, 1970.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft³/s (17.0 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)
Dec. 12	0815	*1080 30.6	11.45 3.490	Mar. 22	0215	946 26.8	10.90 3.322

Minimum daily discharge, 1.3 ft³/s (0.037 m³/s) Sept. 24-26.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	3.5	12	9.5	9.5	12	20	5.8	3.6	5.0	3.0	2.0
2	2.6	3.3	9.5	8.8	9.1	11	16	5.7	3.5	5.6	2.5	2.0
3	2.3	3.3	8.2	16	9.0	9.8	14	5.4	3.3	3.6	20	1.9
4	2.1	3.3	7.3	23	9.1	19	13	5.3	3.2	3.2	15	2.5
5	2.0	3.2	6.8	17	8.8	19	46	5.1	3.1	3.1	10	2.2
6	2.0	3.2	8.5	14	8.3	43	20	5.0	3.1	3.0	7.0	2.0
7	2.6	3.3	74	34	8.3	74	15	5.0	3.1	2.8	5.0	2.4
8	11	3.3	27	19	8.1	29	13	4.8	3.0	2.7	4.0	3.0
9	8.4	3.2	14	26	8.0	19	11	4.5	2.9	2.6	3.2	2.5
10	3.2	3.4	11	233	7.9	16	10	4.4	2.8	2.4	2.7	2.0
11	2.7	3.6	10	44	7.8	14	9.6	4.3	2.8	2.4	2.5	1.8
12	2.5	4.5	503	28	7.8	17	9.1	4.3	3.1	2.3	2.3	1.6
13	2.4	4.2	89	22	8.5	183	8.6	4.2	2.8	2.3	2.2	1.5
14	2.3	4.7	34	29	8.1	38	8.2	4.2	3.0	2.3	2.1	1.4
15	2.3	34	31	27	7.8	23	7.8	4.1	3.1	2.2	2.0	1.4
16	2.3	10	25	19	7.5	17	7.4	4.0	2.9	2.1	3.0	1.9
17	3.0	6.1	17	16	7.5	15	7.0	3.8	3.0	2.0	5.0	2.2
18	2.6	5.1	13	15	7.5	13	6.7	3.8	3.0	1.9	4.0	1.7
19	2.5	4.6	11	17	7.5	12	6.5	3.7	2.9	2.1	3.0	1.7
20	4.6	4.4	12	14	7.4	28	6.3	3.9	2.7	2.1	2.5	1.6
21	3.2	4.3	11	12	7.3	94	6.2	5.0	2.6	2.0	2.3	1.6
22	2.7	4.0	9.3	11	7.3	311	6.2	4.1	2.6	3.9	2.2	1.5
23	2.6	3.8	9.0	11	7.3	50	7.2	3.9	4.1	3.4	2.1	1.4
24	2.6	3.8	8.3	12	38	30	7.6	4.7	3.1	2.4	2.0	1.3
25	3.1	3.8	19	13	17	22	6.3	4.8	2.8	2.3	2.2	1.3
26	3.6	4.3	170	11	12	18	6.1	5.1	4.7	2.5	3.0	1.3
27	2.9	8.1	35	11	18	16	6.0	5.1	5.0	6.0	2.6	1.4
28	2.7	71	21	11	18	15	5.9	4.4	3.0	3.5	2.4	1.5
29	2.9	84	15	11	---	27	5.7	4.1	2.9	6.0	2.3	1.4
30	3.4	20	12	9.9	---	30	5.7	3.8	2.8	10	2.2	1.4
31	4.1	---	11	9.7	---	37	---	3.8	---	5.0	2.1	---
TOTAL	100.2	321.3	1243.9	753.9	288.4	1261.8	318.1	140.1	94.5	102.7	126.4	53.4
MEAN	3.23	10.7	40.1	24.3	10.3	40.7	10.6	4.52	3.15	3.31	4.08	1.78
MAX	11	84	503	233	38	311	46	5.8	5.0	10	20	3.0
MIN	2.0	3.2	6.8	8.8	7.3	9.8	5.7	3.7	2.6	1.9	2.0	1.3
CFSM	.22	.71	2.67	1.62	.69	2.71	.71	.30	.21	.22	.27	.12
IN.	.25	.80	3.08	1.87	.72	3.13	.79	.35	.23	.25	.31	.13
CAL YR 1976	TOTAL	5695.3	MEAN 15.6	MAX 609	MIN 1.2	CFSM 1.04	IN 14.12					
WTR YR 1977	TOTAL	4804.7	MEAN 13.2	MAX 503	MIN 1.3	CFSM .88	IN 11.91					

02223000 OCONEE RIVER AT MILLEDGEVILLE, GA.

LOCATION.--Lat 33°04'58", long 83°12'51", Baldwin County, Hydrologic Unit 03070101, at right bank on city of Milledgeville water works intake structure at Milledgeville, 0.5 mi (0.8 km) upstream from bridge on State Highway 24, 3.8 mi (6.1 km) downstream from Sinclair Dam of Georgia Power Co., and at mile 139.1 (223.8 km).

DRAINAGE AREA.--2,950 mi² (7,640 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1903 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 1142: 1928(M). WSP 1504: 1903-4, 1908, 1912-13, 1914(M), 1915-17. WSP 1554: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 230.84 ft (70.36 m) above mean sea level. Prior to May 23, 1906, Jan. 1 to Oct. 5, 1909, Jan. 1, 1932 to Sept. 30, 1939, nonrecording gages at site 0.5 mi (0.8 km) downstream, and Oct. 1, 1939 to Mar. 8, 1966, water-stage recorder 0.3 mi (0.5 km) downstream, all at present datum. May 23, 1906 to Dec. 31, 1908 and Oct. 6, 1909 to Dec. 31, 1931, nonrecording gages at Fraleys Ferry, 6.8 mi (10.9 km) upstream at different datum.

REMARKS.--Records fair. Flow regulated by Sinclair Reservoir since November 1952. (See "Lakes and Reservoirs in Altamaha River Basin," station 02225000.)

AVERAGE DISCHARGE.--74 years, 3,375 ft³/s (95.6 m³/s), 15.54 in/yr (394.7 mm/yr), adjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 122,000 ft³/s (3,460 m³/s) Feb. 25, 1961, gage height, 42.9 ft (13.08 m), from rating curve extended above 77,000 ft³/s (2,180 m³/s); minimum daily, 90 ft³/s (2.55 m³/s) for several days in August and September 1925 and on Aug. 3, 1955.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 46.7 ft (14.23 m) in 1886 at site 0.5 mi (0.8 km) downstream at present datum, from information by Georgia Department of Transportation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21,600 ft³/s (612 m³/s) Mar. 22, gage height, 22.65 ft (6.904 m); minimum daily, 240 ft³/s (6.80 m³/s) June 28.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	591	1860	7470	6210	3300	4650	7720	777	1470	432	274	2500
2	420	1150	5420	513	4270	4190	7730	3550	2280	296	377	460
3	430	478	4140	3900	2750	4090	7720	2580	1650	830	2710	293
4	1620	398	3850	4240	4050	4230	7700	2330	1920	697	7150	302
5	1890	527	3620	3750	1710	4390	7840	1830	1880	356	7560	296
6	1920	417	4270	3380	469	5030	7760	1830	2010	2760	6520	1750
7	1660	413	4110	4320	2620	6960	7750	971	436	1950	3170	3060
8	298	1130	4440	4040	3060	7700	7740	364	1640	391	592	1400
9	1860	1200	4550	4490	3260	7680	7730	1580	620	269	1200	2160
10	1270	1140	6430	7410	2620	7650	6610	1990	426	271	1380	674
11	2820	2790	6390	7720	2420	7550	6200	2250	980	261	297	539
12	1890	3890	5800	7680	1450	7030	6420	542	1350	835	1780	2450
13	3960	1430	14900	7680	378	9840	4190	1390	1740	1430	528	302
14	1700	2930	11500	7740	2060	10800	4090	1800	909	1030	690	2170
15	2760	4220	7750	7730	2430	7720	4100	454	1350	1600	321	2780
16	2750	3000	6860	7670	3580	7670	400	3690	628	269	401	307
17	643	3380	6480	7630	4260	7620	380	4260	614	264	443	944
18	3050	1910	6440	7310	1550	7600	4260	1790	831	259	1170	814
19	4050	1880	6450	6500	379	5320	1960	1920	1070	550	830	3030
20	4270	1210	6420	4190	387	4450	1580	639	1560	1240	462	1650
21	3400	404	6400	6390	4090	5640	2470	536	2030	2130	475	332
22	1170	2780	6420	4130	1620	17300	2380	458	3110	275	2380	3020
23	407	2440	6390	3310	381	18700	3700	1230	2460	263	787	1770
24	406	1830	6270	4380	4110	12700	3960	511	1710	265	525	558
25	2200	1090	4030	6060	1830	7800	2490	488	1280	344	2120	481
26	668	1930	2610	4140	3380	7730	1410	464	352	418	1980	879
27	296	625	7670	3920	3650	7320	464	4160	1550	422	1700	3220
28	1610	2060	7670	2100	4640	7690	1850	1960	240	356	755	1680
29	2570	7210	7620	2200	---	7710	465	1280	360	269	662	300
30	1820	7730	7610	2380	---	7760	1600	1550	1650	3680	2530	289
31	405	---	7150	4240	---	7810	---	1780	---	713	2050	---
TOTAL	54804	63452	197130	157353	70704	240330	130669	50954	40106	25125	53819	40410
MEAN	1768	2115	6359	5076	2525	7753	4356	1644	1337	810	1736	1347
MAX	4270	7730	14900	7740	4640	18700	7840	4260	3110	3680	7560	3220
MIN	296	398	2610	513	378	4090	380	364	240	259	274	289
MEAN†	1586	2549	5917	5099	2909	7777	4406	1717	1040	878	1760	1251
CFSM†	0.54	0.86	2.01	1.73	0.99	2.64	1.49	0.58	0.35	0.30	0.60	0.42
IN†	0.62	0.96	2.32	1.99	1.03	3.04	1.66	0.67	0.39	0.35	0.69	0.47

CAL YR 1976 TOTAL 1416613 MEAN 3871 MAX 41600 MIN 296 MEAN† 3886 CFSM† 1.32 IN† 17.97
WTR YR 1977 TOTAL 1124856 MEAN 3082 MAX 18700 MIN 240 MEAN† 3084 CFSM† 1.05 IN† 14.25

† Adjusted for change in contents in Sinclair Reservoir.

ALTAMAHA RIVER BASIN

02223000 OCONEE RIVER AT MILLEDGEVILLE, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT 19...	1430	6410	7.3	16.0	19.5	6.2
DEC 28...	0950	7660	7.3	11.0	8.0	10.2
JAN 26...	1000	6100	6.7	1.0	3.0	13.2
MAR 01...	0940	6100	6.9	5.0	8.0	11.6
APR 04...	1400	7720	6.8	23.0	15.5	8.3
MAY 10...	1320	3240	7.1	19.0	17.0	6.7
JUN 15...	1110	262	7.2	29.0	23.0	5.3
JUL 12...	1430	254	7.0	33.5	26.5	6.2
AUG 16...	1655	468	6.8	31.0	27.5	6.4

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	CON- FIRMED COLI- FORM (MPN)	HARD- NESS (CA, MG) (MG/L)
OCT 19...	66	35	15	.7	<30	--	19
DEC 28...	55	100	37	.8	<30	230	14
JAN 26...	51	100	52	.8	91	930	13
MAR 01...	57	50	22	.6	<30	230	15
APR 04...	47	105	66	1.0	36	230	13
MAY 10...	--	--	--	--	<30	150	--
JUN 15...	61	30	10	1.2	<30	40	--
JUL 12...	75	--	18	1.2	<30	430	--
AUG 16...	66	--	34	--	--	--	--

02223000 OCONEE RIVER AT MILLEDGEVILLE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	ALKA- LITY AS CACO3 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 19...	20	1	.18	.06	.04	840	180	5.0
DEC 28...	17	7	.21	.05	.08	2200	110	4.0
JAN 26...	14	13	.27	.08	.08	2000	80	2.0
MAR 01...	16	6	.37	<.02	.05	1000	<50	1.0
APR 04...	15	8	.22	.04	.06	3000	100	4.0
MAY 10...	--	10	--	--	--	2000	90	--
JUN 15...	22	4	.23	.04	<.02	410	410	2.0
JUL 12...	--	--	.06	.08	.02	1140	756	1.5
AUG 16...	--	--	.24	.08	.03	1100	240	3.0

02223040 OCONEE RIVER NEAR HARDWICK, GA.

LOCATION.--Lat 33°01'45", long 83°11'24", Baldwin County, Hydrologic Unit 03070102, on right bank 1 mi (1.6 km) downstream from Camp Creek, and 3 mi (4.8 km) southeast of Hardwick.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Sinclair Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", station 02222500.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
19...	1525	6410	7.1	16.5	19.5	6.3
NOV						
17...	0855	760	7.1	8.0	11.5	8.6
DEC						
28...	0905	7650	7.3	10.0	7.5	10.0
JAN						
26...	0925	6100	6.9	-2.5	3.0	12.0
MAR						
01...	0905	6100	6.9	2.0	7.0	10.9
APR						
04...	0835	7860	6.7	14.5	15.0	8.0
MAY						
11...	0730	450	6.9	9.5	15.0	6.5
JUN						
15...	1150	258	7.2	30.0	23.0	6.0
JUL						
13...	0730	410	6.9	27.0	24.5	3.9
AUG						
17...	0840	440	6.8	28.5	26.0	6.4
SEP						
13...	1200	298	6.8	28.5	26.0	4.1

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA,MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT											
19...	67	35	15	.7	36	18	20	.19	.07	.04	5.0
NOV											
17...	76	25	8	1.3	430	20	25	.20	.13	.07	1.0
DEC											
28...	56	100	35	.7	73	16	17	.21	.06	.08	4.0
JAN											
26...	59	100	42	1.1	2300	14	16	.26	.12	.10	2.0
MAR											
01...	62	40	22	1.3	75000	16	18	.31	.05	.08	2.0
APR											
04...	50	120	78	--	--	15	16	.23	.05	.08	6.0
MAY											
11...	58	80	32	1.8	2300	16	18	.33	.09	.11	4.0
JUN											
15...	74	25	10	2.4	43000	19	25	.32	.23	.14	2.0
JUL											
13...	82	--	12	1.0	580	--	--	.03	.18	.06	6.0
AUG											
17...	76	--	36	.2	4300	--	--	.29	.15	.12	3.0
SEP											
13...	78	--	40	1.2	2200	--	--	.07	.23	.11	3.0

02223500 OCONEE RIVER AT DUBLIN, GA.

LOCATION.--Lat 32°32'40", long 82°53'41", Laurens County, Hydrologic Unit 03070102, near left bank on downstream end of pier of bridge on U.S. Highway 80 at Dublin, and at mile 74.3 (119.5 km).

DRAINAGE AREA.--4,400 mi² (11,400 km²), approximately.

PERIOD OF RECORD.--January 1894 to September 1897 (gage heights only), October 1897 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at same site since 1893 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 822: Drainage area. WSP 1504: 1898-1903, 1905-6, 1908-9, 1912, 1913(M), 1925(M).

GAGE.--Water-stage recorder. Datum of gage is 149.08 ft (45.44 m) above mean sea level. Prior to Apr. 14, 1932, nonrecording gage and Apr. 15, 1932 to June 17, 1934, water-stage recorder at site 420 ft (128 m) downstream at datum 3.0 ft (0.91 m) higher, Oct. 1, 1933 to July 17, 1934 corrected to present datum. July 18, 1934 to Apr. 14, 1936, water-stage recorder, Apr. 15, 1936 to Oct. 12, 1938, nonrecording gage, and Oct. 13, 1938 to Jan. 20, 1953, water-stage recorder at site 80 ft (24 m) upstream at present datum.

REMARKS.--Records good. Flow regulated by Sinclair Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", station 02222500.) Records of chemical analyses for the water years 1968-73 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--80 years (1897-1977), 5,083 ft³/s (144 m³/s), 15.69 in/yr (398.5 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 97,700 ft³/s (2,770 m³/s) Apr. 12, 13, 1936, gage height, 32.97 ft (10.049 m); minimum, 333 ft³/s (9.43 m³/s) Sept. 12, 1951, gage height, 0.48 ft (0.146 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1893, that of Apr. 12, 13, 1936.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27,200 ft³/s (770 m³/s) Mar. 26, gage height, 22.26 ft (6.785 m); minimum daily, 518 ft³/s (14.7 m³/s) July 26.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3170	1990	10200	10600	4920	7370	12400	1600	1970	910	2510	2360
2	2540	1610	10800	10100	5820	7480	12400	2260	1950	1440	1270	2200
3	1920	1950	11000	7700	5330	7210	12500	2620	1700	930	1890	2160
4	1420	1620	9040	6180	5590	6800	12400	3560	2430	865	3770	1050
5	1220	1190	6400	7970	4900	7720	12100	3020	1760	1280	6870	922
6	1790	1050	5310	7660	4880	8640	11800	2770	1930	1120	7860	845
7	2180	1060	6140	7390	3000	10500	11500	2220	2310	1170	8350	792
8	2770	1010	7530	7840	2730	11700	11300	2200	1720	2300	6380	2130
9	3370	965	7410	7730	4030	12500	11000	1420	1050	1810	3480	2470
10	2900	1460	7290	8060	4370	13000	10600	1150	1480	895	1680	1950
11	2910	1430	7930	9530	4260	12900	10400	1920	975	658	1680	2080
12	2790	2030	8780	10500	3950	12400	9700	2180	799	587	1670	1220
13	3140	3270	9580	11000	3310	12200	8920	2130	1070	559	1140	1180
14	3130	3130	10700	11500	2440	13000	7670	1260	1530	985	1780	1930
15	3420	2520	11900	11800	2520	14400	6340	1900	1580	1290	1110	1070
16	2540	4130	13300	11800	2770	15500	5910	1540	1160	1200	1060	2300
17	2920	4690	14600	11600	4120	15900	4520	1630	1360	1370	895	2330
18	2600	4230	14700	11400	4750	15100	2200	3970	985	719	846	1120
19	2150	4110	13400	11000	4390	13700	2870	3320	940	566	915	1240
20	3920	3050	11400	10500	2390	12200	4080	2160	1090	521	1430	1590
21	5360	2460	9850	9120	1670	10500	3230	1920	1380	594	1130	2260
22	5300	1900	9010	8330	2580	12400	3260	1300	1550	1200	945	1750
23	3890	1950	8620	7610	4030	15500	2960	1180	2270	1700	1230	1400
24	2040	2930	8420	6280	2540	20100	3970	1090	2720	786	1850	2390
25	1420	2930	8270	6330	3720	25400	5040	1490	2510	573	1230	1670
26	1790	2120	8180	7710	5530	26900	4430	1140	1690	518	1380	999
27	2730	2770	9130	7260	4490	24500	3320	1070	1390	538	2410	854
28	1830	3420	9410	6620	6570	20600	2170	2040	955	790	2260	1680
29	1420	5380	10300	6120	---	17000	2060	3450	1370	945	1940	2340
30	2750	8860	10900	4450	---	14200	2040	1960	759	846	1240	1730
31	2760	---	10900	4470	---	12800	---	1780	---	1340	1270	---
TOTAL	84090	81215	300400	266160	111600	430120	213090	63250	46383	31005	73471	50012
MEAN	2713	2707	9690	8586	3986	13870	7103	2040	1546	1000	2370	1667
MAX	5360	8860	14700	11800	6570	26900	12500	3970	2720	2300	8350	2470
MIN	1220	965	5310	4450	1670	6800	2040	1070	759	518	846	792

CAL YR 1976 TOTAL 1954323 MEAN 5340 MAX 36500 MIN 604 MEAN# 5355 CFSM# 1.22 IN# 16.57
WTR YR 1977 TOTAL 1750796 MEAN 4797 MAX 26900 MIN 518 MEAN# 4799 CFSM# 1.09 IN# 14.81

* Adjusted for change in contents in Sinclair Reservoir.

ALTAMAHA RIVER BASIN

02223600 OCONEE RIVER AT I-16, NEAR DUBLIN, GA.

LOCATION.--Lat 32°29'05", long 82°51'45", Laurens County, Hydrologic Unit 03070102, at Interstate Highway 16, 4.0 mi (6.4 km) upstream from Pughes Creek, 4.5 mi (7.2 km) southeast of Dublin, and at mile 69.9 (112.5 km).

DRAINAGE AREA.--4,400 mi² (11,400 km²), approximately.

PERIOD OF RECORD.--October 1973 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Sinclair Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", station 02222500.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV						
01...	1415	1800	6.9	16.0	14.0	9.0
FEB						
07...	1315	2860	7.3	6.0	4.5	12.2
MAY						
02...	1130	2390	7.3	32.0	21.5	6.7
JUL						
11...	1200	580	7.1	34.0	29.0	6.1
AUG						
08...	1310	5770	6.8	33.5	27.0	5.6

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)
NOV						
01...	77	50	15	.9	430	22
FEB						
07...	64	50	30	.8	430	18
MAY						
02...	85	70	27	.5	<30	24
JUL						
11...	106	30	12	2.5	9300	--
AUG						
08...	99	50	23	1.6	750	--

DATE	ALKA- LINITY AS CaCO ₃ (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV						
01...	21	--	.21	.03	.06	4.0
FEB						
07...	17	--	.08	<.02	.08	3.0
MAY						
02...	23	--	.37	.03	.09	3.0
JUL						
11...	--	12	.15	.04	.06	2.0
AUG						
08...	--	23	.12	.05	.07	4.0

02224000 ROCKY CREEK NEAR DUDLEY, GA.

WATER-QUALITY RECORDS

LOCATION.--Lat 32°29'38", long 83°08'49", Laurens County, Hydrologic Unit 03070102, on downstream side of highway bridge, 3.2 mi (5.1 km) upstream from Buckhorn Branch, and 5 mi (8.0 km) southwest of Dudley.

DRAINAGE AREA.--62.9 mi² (163 km²).

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
AUG 23...	0900	10	84	6.7	25.0	7.8

DATE	COLOR (PLATINUM-COBALT UNITS)	HARDNESS (CA, MG)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)
AUG 23...	60	32	9	11	1.1	3.0	1.5	28	0	23

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER DAY)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED NITRITE (N) (MG/L)
AUG 23...	4.6	5.9	.0	10	72	54	1.94	.34	1.5	.01

DATE	DISSOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL AMMONIA-NITROGEN (N) (MG/L)	DISSOLVED AMMONIA-NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	SUSPENDED KJEL. NITROGEN (N) (MG/L)
AUG 23...	.03	.35	.35	.07	.07	.09	.69	.69	.76	.00

DATE	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)
AUG 23...	.76	1.1	4.9	.04	.04	.03	.02	.06	30	1

DATE	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
AUG 23...	0	2	2	800	6	110	.0	0	0	6.3

02225000 ALTAMAHA RIVER NEAR BAXLEY, GA.

LOCATION.--Lat 31°56'20", long 82°21'25", Appling-Toombs County line, Hydrologic Unit 03070106, on right bank 400 ft (122 m) downstream from bridge on U.S. Highway 1, 2.2 mi (3.5 km) upstream from Bay Creek, 8 mi (12.9 km) downstream from Bullards Creek, and 12 mi (19.3 km) north of Baxley.

DRAINAGE AREA.--11,600 mi² (30,000 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1949 to June 1951, October 1970 to September 1977.

GAGE.--Water-stage recorder. Datum of gage is 61.51 ft (18.75 m) above mean sea level. Aug. 13, 1949 to June 30, 1951, nonrecording gage at site 400 ft (122 m) upstream at same datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--8 years (1949-50, 1971-77), 12,750 ft³/s (361 m³/s), 14.93 in/yr (379.2 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 97,500 ft³/s (2,760 m³/s) Mar. 12, 1971, gage height, 22.7 ft (6.92 m); minimum daily, 2,100 ft³/s (59.5 m³/s) Oct. 9-12, 1970.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 10, 1948 reached a stage of 25.1 ft (7.65 m), from floodmark, discharge, 130,000 ft³/s (3,680 m³/s).

Flood of January 1925 reached a stage of 30.0 ft (9.14 m), from information furnished by Georgia Department of Transportation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 45,100 ft³/s (1,277 m³/s) Apr. 2, gage height, 17.5 ft (5.334 m); minimum daily, 2,400 ft³/s (68.0 m³/s) July 24.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4470	7860	17600	19900	15500	12500	44400	7580	5400	3850	3050	4470
2	4580	7020	18200	21000	15500	12500	45100	7440	5040	3750	2950	4050
3	5160	6880	20700	20700	15100	13300	44400	7300	5160	3750	3950	3950
4	5160	6000	20200	21900	15500	14500	40000	7160	5400	3650	4150	3950
5	5160	6000	20700	24400	14900	15900	36000	7020	5160	3850	4250	3950
6	5160	5400	21000	27400	14900	17200	33000	7300	5040	3850	5400	4470
7	4800	5400	21000	27900	14300	18600	30000	7440	5040	3450	6120	4470
8	4580	5400	21600	26900	14100	21600	28900	6880	5040	3450	7720	4050
9	4690	4800	21600	26900	13900	25400	28900	6740	4470	4050	8480	3520
10	4470	4470	20700	26900	13100	27400	28900	6360	4580	4050	9280	3550
11	4470	4250	20700	26400	11500	28900	25400	6360	4250	4050	9440	3550
12	5640	4250	21000	24400	11300	28900	25400	5640	4150	4050	7860	4470
13	6000	4150	21900	22300	11500	31800	25400	5400	4250	4050	6600	4470
14	6360	4360	21900	21300	11000	41000	24400	5400	4000	3500	6360	4300
15	6360	4580	23100	21900	10700	40200	22700	4800	3850	3050	6360	4200
16	6360	5880	23900	23500	10200	40200	20700	4800	3450	3150	5640	3950
17	5880	6000	23900	23500	9440	38100	19600	4690	3650	2950	5160	3950
18	6880	6360	23500	26900	9440	38100	19200	4580	3650	2950	4580	3850
19	9120	7020	24400	28400	9120	33600	16600	4580	3650	3150	4050	4470
20	9440	7020	24900	28500	9280	33000	13500	4800	3450	3250	4150	5160
21	9120	7300	26400	28900	9280	32400	11900	5880	3450	2950	4050	5160
22	9800	7200	26400	27900	9600	32400	11100	5640	3450	2950	4150	4830
23	10500	7050	27900	27400	8800	31800	11100	5280	3250	2500	4150	4580
24	11500	6900	26400	26900	7860	30600	9600	4800	3800	2400	4150	4800
25	12500	6740	25400	26900	9780	30600	9120	4470	4800	2950	4150	4800
26	12500	6600	23100	23900	9780	30000	8480	3750	4360	3050	3750	4360
27	9120	7720	23100	21900	9960	30000	8640	4150	4150	2650	4050	4580
28	8800	7720	21900	21000	10500	31000	8960	4250	4250	2850	4050	4580
29	8500	15500	21600	21000	---	33000	8800	4050	4050	2750	4360	4580
30	8160	18400	20400	18900	---	40200	7860	3950	3950	2450	4470	3850
31	8160	---	20400	18200	---	43700	---	4690	---	2450	4470	---
TOTAL	223400	204230	695500	753900	325840	898400	668060	173180	128190	101800	161350	128920
MEAN	7206	6808	22440	24320	11640	28980	22270	5586	4273	3284	5205	4297
MAX	12500	18400	27900	28900	15500	43700	45100	7580	5400	4050	9440	5160
MIN	4470	4150	17600	18200	7860	12500	7860	3750	3250	2400	2950	3520
CFSM	.62	.59	1.93	2.10	1.00	2.50	1.92	.48	.37	.28	.45	.37
IN.	.72	.65	2.23	2.42	1.04	2.88	2.14	.56	.41	.33	.52	.41
CAL YR 1976 TOTAL	4548950			MEAN 12430	MAX 52500	MIN 3420	CFSM 1.07	IN 14.59				
WTR YR 1977 TOTAL	4462770			MEAN 12230	MAX 45100	MIN 2400	CFSM 1.05	IN 14.31				

02225000 ALTAMAHA RIVER NEAR BAXLEY, GA.--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

CHLORIDE: May 1970 to August 1975.

SPECIFIC CONDUCTANCE: June 1971 to current year.

pH: October 1971 to current year.

WATER TEMPERATURES: December 1970 to current year.

DISSOLVED OXYGEN: May 1971 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
05...	0900	5160	7.2	20.5	21.5	6.2
NOV						
02...	1430	7380	7.2	18.0	14.0	8.8
DEC						
07...	0930	21000	6.8	10.0	7.5	9.4
JAN						
11...	0930	26200	7.6	-5.0	6.0	9.9
FEB						
08...	1445	14000	7.3	9.0	6.0	11.4
MAR						
14...	0910	41300	6.0	15.0	15.0	7.8
APR						
05...	0800	34900	6.7	20.0	22.0	6.2
MAY						
03...	0730	7220	7.4	18.0	20.5	7.4
JUN						
14...	0930	4000	7.6	26.0	27.0	7.2
JUL						
12...	0930	4050	7.6	29.0	30.0	6.1
AUG						
09...	1250	8420	7.0	32.0	29.0	6.3
SEP						
14...	0830	4300	7.5	26.5	27.0	7.2

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT											
05...	95	50	16	.8	<30	28	23	.35	.04	.10	5.0
NOV											
02...	84	40	12	.7	36	26	24	.24	.04	.06	12
DEC											
07...	58	120	22	.9	91	16	13	.06	<.02	.06	8.0
JAN											
11...	55	50	18	.8	<30	16	14	.16	<.02	.04	6.0
FEB											
08...	64	50	22	.5	60	20	19	.26		.04	6.0
MAR											
14...	48	80	25	1.4	930	14	13	.01	<.02	.13	6.0
APR											
05...	56	90	27	1.3	<30	15	16	.10	<.02	.04	11
MAY											
03...	88	55	21	.8	<30	26	28	.40	<.02	.08	3.0
JUN											
14...	109	15	33	.5	<30	6	35	.54	<.02	.07	1.5
JUL											
12...	112	40	22	1.6	70	--	--	.42	<.02	.07	3.0
AUG											
09...	91	70	23	--	--	--	--	.26	<.02	.13	2.0
SEP											
14...	102	30	20	.5	<30	--	--	.36	<.02	.09	2.0

ALTAMAHA RIVER BASIN

02225500 OHOOPEE RIVER NEAR REIDSVILLE, GA.

LOCATION.--Lat 32°04'42", long 82°10'39", Tattall County, Hydrologic Unit 03070107, on downstream side of pier near center of span of bridge on State Highway 56, 0.5 mi (0.8 km) downstream from Brazells Creek, 1.5 mi (2.4 km) downstream from Rocky Creek, 3.5 mi (5.6 km) west of Reidsville, 6 mi (9.7 km) downstream from Pendleton Creek, and 14 mi (22 km) upstream from mouth.

DRAINAGE AREA.--1,110 mi² (2,870 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1903 to December 1907, April 1937 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 822: Drainage area. WSP 892: 1939(M). WSP 1504: 1905.

GAGE.--Water-stage recorder. Datum of gage is 73.8 ft (22.49 m) above mean sea level (levels by Georgia Department of Transportation). Prior to Feb. 15, 1941, nonrecording gage at same site, at different datum June 13, 1903 to Dec. 31, 1907, and at same datum May 25, 1937 to Feb. 15, 1941.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--44 years, 997 ft³/s (28.2 m³/s), 12.20 in/yr (309.9 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,400 ft³/s (691 m³/s) Mar. 6, 1966, gage height, 23.34 ft (7.114 m); minimum daily, 19 ft³/s (0.54 m³/s) Sept. 12, 13, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 28.4 ft (8.66 m) in January 1925, from information furnished by Georgia Department of Transportation; discharge, 47,000 ft³/s (1,330 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,330 ft³/s (179.3 m³/s) Mar. 14, gage height, 15.74 ft (4.798 m); minimum, 35 ft³/s (0.99 m³/s) July 22.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	282	1500	4050	2960	1910	1330	2700	243	249	78	78	168
2	357	1700	4500	2920	1830	1410	2620	227	216	75	90	196
3	383	1500	4700	2950	1740	1440	2470	213	158	71	128	188
4	404	1400	4510	3360	1660	1530	2380	201	140	69	442	199
5	464	1300	4190	3610	1600	1820	2320	189	130	66	326	207
6	537	1200	3790	3680	1530	2340	2280	178	122	64	211	207
7	768	1100	3410	3830	1460	3380	2150	169	115	59	192	201
8	919	1040	3170	3840	1400	4420	1950	158	110	55	251	174
9	834	956	3010	3680	1330	4980	1770	147	104	52	296	162
10	835	888	2970	3570	1270	4960	1620	139	99	50	349	156
11	810	831	3070	3460	1200	4890	1480	129	96	47	381	152
12	803	789	3360	3310	1140	4630	1340	121	92	45	317	146
13	844	761	3850	3090	1090	4640	1190	114	88	43	233	137
14	969	744	4250	2990	1040	6060	1050	108	85	40	180	132
15	1200	753	4440	3180	1010	5440	929	102	82	39	151	140
16	1380	789	4460	3300	986	4120	816	98	79	39	188	151
17	1500	837	4460	3360	951	3210	725	94	77	40	152	147
18	1760	929	4470	3370	905	2690	641	90	75	40	129	145
19	1830	1020	4310	3220	863	2600	569	87	73	41	141	133
20	1780	1090	3960	2950	844	2660	518	84	71	38	163	130
21	2020	1130	3560	2680	811	2500	479	82	69	36	201	146
22	2500	1150	3150	2480	771	2290	433	80	67	37	296	216
23	2700	1110	2780	2320	735	2320	393	78	65	44	293	360
24	3000	1050	2510	2200	779	2790	383	76	83	46	228	464
25	3300	974	2350	2160	937	3590	376	74	111	46	196	411
26	2900	921	2340	2150	1020	4750	356	110	92	42	269	291
27	2200	1290	2400	2160	1060	5950	335	205	109	41	193	219
28	1800	2350	2470	2150	1180	5590	313	231	101	40	147	183
29	1400	3060	2560	2100	---	4270	287	279	96	53	137	161
30	1200	3500	2700	2040	---	3130	264	193	90	74	147	146
31	1300	---	2850	1970	---	2680	---	167	---	75	148	---
TOTAL	42979	37662	108600	91040	33052	108410	35137	4466	3144	1585	6653	5868
MEAN	1386	1255	3503	2937	1180	3497	1171	144	105	51.1	215	196
MAX	3300	3500	4700	3840	1910	6060	2700	279	249	78	442	464
MIN	282	744	2340	1970	735	1330	264	74	65	36	78	130
CFSM	1.25	1.13	3.16	2.65	1.06	3.15	1.06	.13	.10	.05	.19	.18
IN.	1.44	1.26	3.64	3.05	1.11	3.63	1.18	.15	.11	.05	.22	.20

CAL YR 1976 TOTAL 381766 MEAN 1043 MAX 4700 MIN 118 CFSM .94 IN 12.79
WTR YR 1977 TOTAL 478596 MEAN 1311 MAX 6060 MIN 36 CFSM 1.18 IN 16.04

ALTAMAHA RIVER BASIN

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02225500 OHOOPEE RIVER NEAR REIDSVILLE, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV 02...	1300	1660	6.6	17.0	11.0	9.4
FEB 08...	1315	1400	6.8	7.0	4.0	12.2
MAY 03...	0650	213	7.1	17.5	19.5	7.3
AUG 09...	1200	296	6.3	31.0	27.0	6.4

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)
NOV 02...	42	100	6	1.3	30
FEB 08...	36	50	6	.4	<30
MAY 03...	54	80	9	.9	<30
AUG 09...	77	40	8	--	--

DATE	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CaCO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 02...	11	5	<.02	.02	.02	14
FEB 08...	8	6	.04	<.02	.02	6.0
MAY 03...	14	13	.15	<.02	.05	8.0
AUG 09...	--	--	.04	<.02	.03	10

ALTAMAHA RIVER BASIN

02225990 ALTAMAHA RIVER NEAR JESUP, GA.

LOCATION.--Lat 31°39'59", long 81°50'19", Wayne-Long County line, Hydrologic Unit 03070106, at bridge on U.S. Highways 25, 82, and 301, 5 mi (8.0 km) northeast of Jesup.

DRAINAGE AREA.--13,600 mi² (35,200 km²), approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT 05...	1030	6960	7.3	23.0	23.0	7.4
NOV 09...	1010	7350	7.1	7.5	11.5	--
DEC 06...	1150	32800	6.6	12.0	9.0	--
MAR 16...	1210	52300	6.6	21.0	17.5	7.4
APR 21...	0920	20500	7.6	20.0	20.5	7.8
MAY 12...	1530	6980	7.3	--	24.0	7.9
JUN 08...	1045	5560	7.3	27.0	26.0	7.1
JUN 22...	1100	3840	7.6	26.5	29.0	6.9
JUL 27...	1500	3440	7.6	27.0	28.5	7.5
AUG 24...	0930	4730	7.2	25.5	27.0	7.7
SEP 07...	0915	5630	7.1	25.0	25.5	7.9

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)
OCT 05...	90	70	19	.6	36	26
NOV 09...	86	50	8	.3	<30	24
DEC 06...	49	120	15	.9	91	13
MAR 16...	44	90	21	.7	91	12
APR 21...	70	90	21	.1	91	--
MAY 12...	83	30	21	.7	<30	26
JUN 08...	89	35	21	.2	<30	26
JUN 22...	103	25	15	.4	40	33
JUL 27...	125	17	12	.7	40	--
AUG 24...	105	40	24	.5	<30	--
SEP 07...	91	80	26	.3	--	--

ALTAMAHA RIVER BASIN

02225990 ALTAMAHA RIVER NEAR JESUP, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TANNIN AND LIGNIN (MG/L)
OCT 05...	21	18	.28	.04	.10	6.0	.7
NOV 09...	24	1	.19	<.02	.05	7.0	.8
DEC 06...	10	--	.03	<.02	.05	10	1.3
MAR 16...	11	9	.06	<.02	.03	6.0	1.4
APR 21...	22	13	.30	.02	.07	4.0	--
MAY 12...	28	23	.49	<.02	.07	1.0	.4
JUN 08...	27	14	.50	<.02	.08	2.5	.7
JUN 22...	35	13	.39	<.02	.05	3.4	.4
JUL 27...	--	11	.21	<.02	.05	4.0	<.5
AUG 24...	--	20	.42	<.02	.08	5.0	.5
SEP 07...	--	15	.36	<.02	.08	8.0	.8

ALTAMAHA RIVER BASIN

02226000 ALTAMAHA RIVER AT DOCTORTOWN, GA.
 (National stream-quality accounting network station)
 (Radiochemical program station)
 (National Pesticide water monitoring program)

LOCATION.--Lat 31°39'16", long 81°49'41", Wayne-Long County line, Hydrologic Unit 03070106, on right bank 60 ft (18 m) downstream from Seaboard Coast Line Railroad bridge at Doctortown, 4.5 mi (7.2 km) northeast of Jesup, and at mile 64.5 (103.8 km).

DRAINAGE AREA.--13,600 mi² (35,200 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1931 to current year. Gage-heights collected at same site since 1925 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 822: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 24.48 ft (7.46 m) above mean sea level. Prior to Sept. 5, 1934, nonrecording gage, and Sept. 5, 1934 to Sept. 30, 1975, water-stage recorder at same site at datum 4.0 ft (1.22 m) higher.

REMARKS.--Records good.

AVERAGE DISCHARGE.--46 years, 13,850 ft³/s (392 m³/s), 13.83 in/yr (351.3 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 178,000 ft³/s (5,040 m³/s) Apr. 18, 1936, gage height, 16.03 ft (4.89 m), present datum; minimum, 1,430 ft³/s (40.5 m³/s) Oct. 27, 28, Nov. 1, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1800, 18.6 ft (5.67 m), present datum, Jan. 23, 1925, discharge, 300,000 ft³/s (8,500 m³/s), from rating curve extended above 180,000 ft³/s (5,100 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 55,500 ft³/s (1,572 m³/s) Apr. 3, gage height, 12.65 ft (3.856 m); minimum, 2,940 ft³/s (83.3 m³/s) July 25.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6040	12400	25500	30300	26500	14400	50900	9080	5710	4380	3260	4890
2	6310	11000	29300	29800	25500	15100	52900	8500	5930	4330	3360	4640
3	6610	10300	30800	30600	24400	16000	54900	8220	5770	4140	3450	4470
4	6870	9860	31800	32300	23100	17000	55100	8020	5840	3950	4070	4830
5	6960	9140	32500	34300	21900	18300	53300	7900	5960	4080	4720	5460
6	6900	8620	32800	36700	20900	19700	49600	7840	5810	4190	5190	5840
7	6810	8200	32900	39100	20400	22100	45300	7990	5690	4050	6000	5530
8	6680	7790	33400	40000	20000	25400	41500	8020	5530	4080	6930	4910
9	6860	7330	33700	39800	19400	29800	38000	7810	5240	4330	7810	4460
10	7140	6920	33700	39100	18600	34600	35200	7460	5120	4380	8460	4160
11	7520	6590	33200	37900	17700	38600	33200	7170	5060	4510	9020	4190
12	7900	6300	32500	36500	16500	40700	31800	6820	4740	4610	9230	4660
13	7980	6120	32100	35200	15900	42800	31100	6340	4540	4270	8640	4800
14	7820	6130	32800	34300	15600	43700	30600	6060	4460	3810	7730	4750
15	7750	6230	34700	33500	15400	46700	30200	5980	4220	3510	7350	4610
16	7980	6720	36200	33200	14900	52100	29200	5870	3990	3310	7070	4460
17	10100	7370	37000	33800	14100	54100	27900	5500	3990	3210	6390	4540
18	15600	7690	37000	35200	13200	51800	26200	5220	4100	3380	5640	4670
19	16700	8140	36800	36800	12400	48100	24500	5160	4090	3500	5140	4950
20	17000	9000	36800	38000	12400	44300	22500	5050	4130	3540	5110	5560
21	17100	9650	37000	38500	12700	41900	20300	5580	3990	3470	4830	5900
22	16700	10000	37000	38200	13000	40900	17800	6120	3830	3250	4620	5880
23	16600	10100	37100	37600	12900	40300	15400	5950	3730	3060	4630	5630
24	17500	9920	37100	36800	12200	39700	13800	5700	3780	2970	4770	5650
25	18600	9560	36800	36200	11500	38900	12300	5500	3980	2970	4790	5540
26	19500	9200	36800	35400	12000	38500	10800	5230	4270	3230	4790	5240
27	19500	10300	35400	34500	13000	38600	9740	5400	4820	3430	5110	5240
28	18300	13400	33900	33200	13800	39700	9560	5500	5100	3270	5080	5200
29	16600	16800	32800	31400	---	41900	9680	5560	5000	3130	4840	4810
30	15200	20500	31700	29700	---	44600	9560	5280	4680	2990	4960	4560
31	14000	---	31100	28000	---	48200	---	5190	---	3020	5010	---
TOTAL	363130	281280	1052200	1085900	469900	1128500	892840	201020	143100	114350	178050	150030
MEAN	11710	9376	33940	35030	16780	36400	29760	6485	4770	3689	5744	5001
MAX	19500	20500	37100	40000	26500	54100	55100	9080	5960	4610	9230	5900
MIN	6040	6120	25500	28000	11500	14400	9560	5050	3730	2970	3260	4160
CFSM	.86	.69	2.50	2.58	1.23	2.68	2.19	.48	.35	.27	.42	.37
IN.	.99	.77	2.88	2.97	1.29	3.09	2.44	.55	.39	.31	.49	.41
CAL YR 1976	TOTAL	5955870	MEAN	16270	MAX	60100	MIN	4430	CFSM	1.20	IN	16.29
WTR YR 1977	TOTAL	6060300	MEAN	16600	MAX	55100	MIN	2970	CFSM	1.22	IN	16.58

02226000 ALTAMAHA RIVER AT DOCTORTOWN, GA.--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to current year.

WATER TEMPERATURES: November 1967 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 160 micromhos July 21, 1977; minimum recorded, 38 micromhos Mar. 12, 1977.

WATER TEMPERATURES: Maximum, 33.0°C Aug. 22-26, 1968; minimum, 3.0°C Jan. 20-23, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 160 micromhos July 21; minimum recorded, 38 micromhos Mar. 12.

WATER TEMPERATURES: Maximum, 32.5°C July 11-14; minimum, 3.0°C Jan. 20-23.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT					
02...	0900	6260	--	--	--
05...	0905	6960	7.3	22.5	7.1
NOV					
09...	0920	7370	7.1	11.5	--
09...	1515	7260	--	--	--
DEC					
06...	1125	32500	6.6	9.0	--
JAN					
20...	1255	38200	--	--	--
FEB					
23...	1325	12900	--	--	--
MAR					
16...	1130	52300	6.6	17.5	7.6
APR					
20...	1525	22300	--	--	--
21...	0900	20600	7.6	21.5	7.0
MAY					
12...	0945	6930	7.3	24.0	6.7
JUN					
01...	1515	5800	--	--	--
08...	1000	5570	7.3	27.0	6.1
22...	1000	3840	7.6	29.0	5.4
23...	1100	3720	--	--	--
24...	1030	3770	--	29.9	--
JUL					
27...	1400	3430	7.6	29.0	5.7
AUG					
22...	1500	4660	--	--	--
24...	0845	4740	6.9	29.0	6.0
SEP					
07...	0845	5640	7.1	28.0	6.9
21...	1140	5890	6.4	28.0	6.2

ALTAMAHA RIVER BASIN

02226000 ALTAMAHA RIVER AT DOCTORTOWN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPF- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TUR- BID- ITY (JTU)	TUR- BID- ITY (NTU)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)
OCT 05...	116	--	--	--	310	26	--	--	--	--
NOV 09...	101	15	--	33	153	24	0	7.6	1.3	13
DEC 06...	55	2	--	150	170	13	2	3.9	.7	5.1
MAR 16...	45	--	--	70	353	12	--	--	--	--
APR 20...	--	--	16	--	--	--	--	--	--	--
21...	78	--	20	--	1480	13	--	--	--	--
MAY 12...	85	25	24	873	1800	27	0	8.6	1.3	14
JUN 01...	--	--	19	--	--	--	--	--	--	--
08...	92	22	20	82	460	28	0	8.3	1.8	16
22...	143	17	13	--	660	34	0	10	2.1	23
23...	--	--	13	--	--	--	--	--	--	--
JUL 27...	151	14	11	810	280	--	--	--	--	--
AUG 22...	--	--	20	--	--	--	--	--	--	--
24...	117	23	16	813	340	32	0	10	1.8	19
SEP 07...	81	27	22	770	2100	25	0	7.4	1.5	11
21...	94	20	--	600	500	30	0	9.0	1.8	17

DATE	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
NOV 08...	.9	19	0	16	4.2	5.9	.1	12	60	43
DEC 07...	1.1	11	0	9	5.0	5.5	.2	10	56	34
MAY 11...	1.0	29	0	24	3.5	5.0	.0	12	64	50
JUN 07...	1.0	30	0	25	4.6	5.2	.1	11	68	53
21...	1.3	37	0	30	11	5.5	.1	9.8	70	64
AUG 23...	1.1	30	0	25	9.0	5.7	.0	14	78	61
SEP 06...	1.2	26	0	21	5.6	5.5	.0	14	78	53
20...	1.0	28	0	23	4.7	5.3	.1	14	64	54

02226000 ALTAMAHA RIVER AT DOCTORTOWN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT 05...	.28	--	.52	.80	3.5	.08	9.0	3100	--	--	--
NOV 09...	.19	--	.38	.57	2.5	.06	10	870	35	696	--
09...	--	--	--	--	--	--	--	--	16	314	--
DEC 06...	.04	--	.38	.42	1.9	.04	10	270	26	2280	--
JAN 20...	--	--	--	--	--	--	--	--	13	1340	--
FEB 23...	--	--	--	--	--	--	--	--	34	1180	--
MAR 16...	.07	--	--	--	--	.04	9.0	--	--	--	--
APR 20...	--	--	--	--	--	--	--	--	44	2650	--
21...	.27	--	.33	.60	2.7	.08	4.3	--	12	667	96
MAY 12...	.41	--	.39	.80	3.5	.10	4.0	9900	25	468	97
JUN 01...	--	--	--	--	--	--	--	--	36	564	--
08...	.49	--	.48	.97	4.3	.10	3.0	--	21	316	96
22...	.40	--	.52	.94	4.2	.10	12	3900	23	238	77
23...	--	--	--	--	--	--	--	--	25	251	--
JUL 27...	.21	--	.41	.62	2.7	.10	5.6	610	18	167	81
AUG 22...	--	--	--	--	--	--	--	--	23	289	--
24...	.41	--	.63	1.0	4.6	.11	8.0	240	30	384	85
SEP 07...	.36	--	.48	.84	3.7	.10	9.0	770	28	426	86
21...	.39	.04	--	--	--	.09	7.2	140	--	--	89

DATE	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
OCT 05...	--	0	1	1	20	4	0	0	0	0	1400
MAR 16...	1	1	1	1	20	0	0	0	5	5	910
APR 21...	1	0	1	1	<10	5	0	0	2	2	1900
JUL 27...	0	0	0	0	<10	0	0	0	8	5	1000

DATE	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT 05...	290	18	0	120	30	.0	.0	0	0	50	10
MAR 16...	530	18	12	30	30	.0	.0	--	0	20	10
APR 21...	510	18	16	40	40	.0	.0	0	0	10	0
JUL 27...	90	7	7	60	60	.0	.0	0	0	40	20

ALTAMAHA RIVER BASIN

02226000 ALTAMAHA RIVER AT DOCTORTOWN, GA. -- Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL MALA- THION (UG/L)	TOTAL METH- OXY- CHLOR (UG/L)	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL PARA- THION (UG/L)	TOTAL TOX- APHENE (UG/L)	TOTAL TRI- THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)	TOTAL ATRA- ZINE (UG/L)	SIMA- ZINE TOTAL COUL- SON COND. (UG/L)
NOV 09...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAR 16...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAY 12...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 24...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	TOTAL ALDRIN (UG/L)	TOTAL CHLOR- DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI- AZINON (UG/L)	TOTAL DI- ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)
NOV 09...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAR 16...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAY 12...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 24...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDE D GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDE D GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDE D GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED GROSS RA-226 (RADON METHOD) (PC/L)
OCT 02...	64	12	.9	1.3	3.0	<.6	2.3	<.5	.05
JUN 24...	92	14	<1.5	1.1	3.0	.9	2.4	.8	.09

02226000 ALTAMAHA RIVER AT DOCTORTOWN, GA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	108	94	93	89	52	51	85	81	72	61	82	75
2	100	84	95	86	54	52	83	81	68	64	77	74
3	116	94	99	93	56	52	---	---	71	66	78	73
4	121	109	100	87	57	54	---	---	67	61	76	66
5	124	112	98	90	60	57	---	---	71	65	64	58
6	116	107	102	94	61	53	---	---	66	64	59	54
7	107	99	113	98	55	45	76	73	67	66	55	51
8	112	97	109	101	53	46	73	71	70	67	55	53
9	111	99	108	100	58	55	73	72	72	69	54	51
10	112	104	116	105	62	59	76	75	71	68	53	50
11	105	98	115	105	60	53	75	71	75	70	51	47
12	117	99	111	101	58	52	75	71	76	73	50	38
13	112	98	108	102	57	52	75	74	79	73	48	39
14	110	99	110	105	59	51	75	70	77	72	49	42
15	117	101	104	85	52	51	69	64	81	75	53	41
16	116	110	85	77	53	52	71	63	81	77	52	45
17	110	99	76	59	67	51	71	64	79	76	52	47
18	98	93	61	51	71	56	70	69	79	75	53	47
19	98	91	63	54	80	70	69	68	82	77	52	47
20	94	84	61	50	82	78	67	64	81	78	52	48
21	93	87	55	48	84	81	67	64	80	76	51	49
22	99	89	57	54	101	81	67	66	78	75	53	50
23	101	91	61	57	89	81	70	66	78	75	57	50
24	96	91	63	58	85	82	69	64	80	77	56	52
25	95	86	76	61	83	81	64	60	84	79	58	55
26	91	83	71	61	80	78	61	59	84	80	58	55
27	89	82	59	47	80	78	62	58	82	73	59	56
28	90	84	49	43	80	79	64	59	79	75	59	57
29	91	88	47	42	78	74	61	58	---	---	60	57
30	89	82	50	46	89	77	63	60	---	---	61	55
31	94	85	---	---	91	83	63	61	---	---	63	54
MONTH	124	82	116	42	101	45	85	58	84	61	82	38
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	57	53	83	80	91	82	151	143	133	121	112	101
2	59	53	84	80	89	79	147	134	132	125	110	99
3	58	53	83	81	83	78	138	129	139	129	107	98
4	60	52	88	82	86	79	142	127	134	122	98	87
5	62	54	88	80	90	82	135	122	126	115	86	81
6	64	57	84	80	93	89	134	126	128	111	92	83
7	62	58	85	80	95	87	138	124	155	123	87	79
8	66	60	88	82	96	87	139	127	137	125	87	80
9	65	61	86	82	98	95	133	123	129	121	95	80
10	63	61	84	81	102	100	133	125	126	122	104	93
11	64	62	84	82	109	99	134	127	131	120	100	94
12	65	60	88	82	115	109	138	128	126	119	107	94
13	64	61	90	87	120	116	148	139	126	118	106	99
14	64	58	97	90	127	122	148	142	125	114	105	93
15	63	60	101	95	128	118	152	146	122	112	102	96
16	64	61	101	96	130	126	156	140	---	---	103	96
17	67	63	100	95	133	125	159	151	---	---	104	94
18	73	67	104	98	134	129	157	152	---	---	96	87
19	74	67	107	104	137	134	156	148	---	---	94	84
20	76	68	115	107	139	135	159	153	---	---	96	87
21	79	75	113	103	145	139	160	153	---	---	97	87
22	82	75	105	99	145	141	153	148	---	---	90	86
23	80	77	97	91	148	144	153	145	125	112	92	89
24	80	77	99	95	151	142	154	149	125	111	96	88
25	86	77	100	93	145	142	153	146	116	109	101	92
26	85	80	94	90	148	138	152	149	120	111	103	95
27	84	80	93	77	142	133	155	149	117	111	110	98
28	85	81	85	78	142	139	157	147	117	107	108	99
29	84	80	86	79	145	140	156	137	116	109	114	105
30	86	79	86	79	153	141	140	130	115	105	114	106
31	---	---	86	81	---	---	135	128	110	102	---	---
MONTH	86	52	115	77	153	78	160	122	155	102	114	79

02226000 ALTAMAHA RIVER AT DOCTORTOWN, GA.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	25.0	24.0	14.5	14.0	11.5	10.5	9.0	8.0	5.5	5.0	14.0	13.5
2	24.0	23.0	14.5	14.0	10.5	10.0	8.0	7.5	5.5	5.0	13.5	13.0
3	23.5	22.5	14.5	14.0	10.0	9.5	7.5	7.0	5.5	5.5	13.5	13.0
4	23.0	22.5	14.5	14.0	9.5	9.5	7.0	6.5	6.5	5.5	14.0	13.5
5	23.5	22.5	14.5	13.5	9.5	9.0	7.5	7.0	7.0	6.0	14.0	14.0
6	23.0	22.5	13.5	13.0	9.0	9.0	8.0	7.5	7.0	6.5	14.5	14.0
7	23.5	23.0	13.5	12.5	9.5	9.0	8.5	8.0	7.0	6.5	14.5	14.0
8	23.0	23.0	13.0	12.0	9.5	9.0	8.0	7.5	7.0	6.5	14.5	14.0
9	23.0	22.0	12.0	11.5	9.0	8.5	8.0	7.5	6.5	6.5	14.5	13.5
10	22.5	21.0	12.5	11.0	9.0	8.0	8.5	8.0	7.0	6.5	14.5	14.0
11	21.0	20.0	13.0	12.0	9.0	9.0	8.0	7.0	7.5	6.5	14.5	14.0
12	20.0	19.5	13.5	13.0	10.0	9.0	7.0	6.5	8.0	7.5	15.5	14.5
13	19.5	18.5	13.0	12.5	10.5	10.0	6.5	6.0	9.0	8.0	17.0	15.5
14	19.5	18.5	12.5	11.5	10.5	10.0	7.0	6.5	9.5	9.0	17.5	16.5
15	19.5	18.5	11.5	11.5	10.5	10.0	7.5	7.0	10.5	9.0	18.0	17.0
16	19.5	19.0	11.5	11.0	11.0	10.5	7.5	7.0	10.5	10.0	19.0	17.5
17	19.5	19.0	11.5	11.0	10.5	10.5	7.0	5.5	10.0	9.5	19.0	18.5
18	19.0	18.0	12.0	11.5	10.5	10.0	5.5	4.5	10.5	9.5	19.0	18.5
19	18.0	17.0	12.0	11.5	10.5	10.5	4.5	3.5	11.5	10.5	19.5	19.0
20	17.5	17.0	12.5	12.0	10.5	10.5	3.5	3.0	12.0	11.5	20.0	19.5
21	17.0	16.0	13.0	12.5	10.5	9.5	3.5	3.0	11.0	10.5	20.0	19.5
22	16.0	15.5	12.5	12.0	9.0	8.5	3.5	3.0	11.0	10.0	19.5	19.0
23	15.5	15.0	12.0	11.0	8.5	8.0	3.5	3.0	11.5	10.5	19.0	18.0
24	15.5	15.0	11.0	10.5	8.0	7.5	3.5	3.5	13.0	11.5	18.0	17.0
25	15.5	15.5	10.5	10.0	8.0	7.5	4.5	4.0	13.5	12.5	17.5	17.0
26	16.0	15.5	10.5	10.0	8.5	8.0	4.5	4.0	14.0	13.0	17.5	17.0
27	15.5	15.5	11.0	10.5	8.0	7.5	5.0	4.5	14.5	14.0	17.5	17.0
28	15.5	14.5	13.0	11.0	8.5	7.5	6.0	5.0	14.5	13.5	17.5	17.0
29	14.5	13.5	14.0	13.5	8.5	8.5	6.0	5.5	---	---	18.5	17.5
30	14.0	14.0	13.5	11.5	8.5	8.0	5.5	5.0	---	---	19.0	18.0
31	14.5	14.0	---	---	9.0	8.5	5.5	5.0	---	---	19.0	18.5
MONTH	25.0	13.5	14.5	10.0	11.5	7.5	9.0	3.0	14.5	5.0	20.0	13.0
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	19.5	19.0	23.0	22.0	28.5	27.5	31.5	30.5	30.0	28.5	29.5	29.0
2	20.0	19.0	24.0	22.5	28.5	27.5	30.5	29.0	30.5	29.5	29.5	28.0
3	20.5	19.5	24.0	23.5	29.0	27.5	30.0	28.5	30.0	29.0	28.0	27.5
4	21.0	20.5	24.5	23.5	29.0	28.0	30.5	29.5	29.5	28.5	27.5	27.0
5	21.0	20.5	25.0	24.0	29.0	28.0	31.0	29.5	29.0	28.0	27.5	26.5
6	20.5	19.5	25.5	24.5	29.0	28.0	31.5	30.0	30.0	28.5	28.5	27.5
7	19.5	19.0	26.5	25.0	28.5	28.0	32.0	31.0	30.5	29.0	29.0	28.0
8	19.5	19.0	27.0	25.5	28.0	27.0	32.0	31.0	30.5	29.5	29.0	28.0
9	19.5	19.0	26.5	25.5	28.0	27.0	32.0	31.0	30.5	29.0	28.5	28.0
10	19.0	18.5	25.5	25.0	28.0	27.0	32.0	31.0	30.5	29.5	29.0	28.0
11	19.0	18.5	25.0	24.0	28.5	27.0	32.5	31.0	30.0	29.5	29.5	28.5
12	19.5	18.5	24.5	23.5	28.5	27.5	32.5	31.5	30.0	29.0	29.0	28.5
13	19.5	19.0	24.5	23.5	---	---	32.5	31.5	30.0	29.0	29.0	28.0
14	20.0	19.0	25.0	24.0	---	---	32.5	31.5	29.5	29.0	29.0	28.0
15	20.0	19.5	25.5	24.0	---	---	32.0	31.5	29.0	28.5	29.0	28.0
16	20.5	19.5	26.0	24.5	---	---	32.0	31.0	29.0	28.5	28.0	27.5
17	21.0	20.0	26.0	25.0	---	---	31.5	30.5	29.5	28.0	28.0	27.0
18	21.0	20.5	26.5	25.0	---	---	30.5	30.0	30.0	29.0	28.0	27.0
19	21.5	20.5	27.0	25.5	---	---	30.5	29.5	30.0	29.0	28.0	26.5
20	21.5	21.0	26.5	25.5	---	---	32.0	30.0	29.5	28.5	28.0	27.0
21	22.0	21.5	26.5	25.5	---	---	32.0	30.5	29.0	28.5	28.5	27.5
22	22.5	22.0	26.5	25.5	---	---	32.0	31.0	29.5	28.0	28.5	27.5
23	22.5	22.0	26.0	24.5	---	---	31.5	30.0	30.0	28.5	28.5	27.5
24	23.0	22.0	24.5	24.5	---	---	30.5	29.5	29.5	28.5	28.0	27.0
25	23.0	22.0	25.0	24.0	31.0	30.0	30.5	29.0	28.5	27.5	27.5	26.5
26	22.5	22.0	25.0	24.5	31.0	30.5	30.0	29.5	29.0	28.0	27.5	26.5
27	22.0	21.0	25.0	24.0	31.0	30.0	30.0	29.0	29.0	28.0	27.5	26.5
28	22.0	21.0	26.0	24.0	31.5	30.5	29.0	28.5	29.0	28.0	27.5	26.5
29	22.0	21.0	26.5	25.0	31.5	30.5	29.5	28.0	29.0	28.5	27.0	26.0
30	22.5	21.5	27.5	26.0	32.0	30.5	29.5	29.0	30.0	28.5	27.0	26.0
31	---	---	28.0	26.5	---	---	29.5	28.5	30.0	29.0	---	---
MONTH	23.0	18.5	28.0	22.0	32.0	27.0	32.5	28.0	30.5	27.5	29.5	26.0

02226010 ALTAMAHA RIVER NEAR GARDI, GA.

LOCATION.--Lat 31°37'24", long 81°45'55", Wayne-Long County line, Hydrologic Unit 03070106, 6 mi (10 km) northeast of Gardi, 7 mi (11 km) downstream from Doctortown, and 9 mi (14 km) upstream from Penholoway Creek.

DRAINAGE AREA.--13,600 mi² (35,200 km²), approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT 05...	0905	6940	7.3	21.0	24.2	7.1
NOV 09...	0920	7590	7.2	6.0	11.5	--
DEC 06...	1125	32600	6.5	12.5	9.0	--
MAR 16...	1130	49600	6.9	21.0	17.5	7.6
APR 21...	0900	21800	7.1	24.0	20.5	7.2
MAY 12...	0945	7050	7.3	19.5	26.0	6.4
JUN 08...	1000	5560	7.3	22.0	26.0	6.2
JUN 22...	1000	3900	7.5	26.0	29.0	5.4
JUL 27...	1400	3400	7.2	27.0	29.0	5.7
AUG 24...	0845	4680	6.8	27.0	27.5	6.2
SEP 07...	0845	5840	7.0	25.0	26.0	7.2

DATE	ALKA- LITY AS CACO3 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TANNIN AND LIGNIN (MG/L)
OCT 05...	27	16	.29	.04	.11	9.0	1.3
NOV 09...	28	7	.19	<.02	.06	10	1.5
DEC 06...	11	--	.02	<.02	.05	10	1.5
MAR 16...	11	9	.07	<.02	.04	7.0	1.5
APR 21...	24	12	.27	.02	.07	5.0	1.1
MAY 12...	31	24	.49	<.02	.09	4.0	1.1
JUN 08...	33	15	.49	<.02	.10	3.0	1.3
JUN 22...	42	14	.40	.03	.10	12	1.5
JUL 27...	--	9	.21	.04	.10	8.0	1.4
AUG 24...	--	16	.41	.04	.11	8.0	1.1
SEP 07...	--	15	.36	<.02	.10	9.0	1.1

ALTAMAHA RIVER BASIN

02226010 ALTAMAHA RIVER NEAR GARDI, GA.--Continued

WATER QUALITY DATA. WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA,MG) (MG/L)
OCT						
05...	130	70	17	.7	<30	28
NOV						
09...	119	90	10	.7	150	26
DEC						
06...	57	120	16	1.2	82	15
MAR						
16...	46	75	21	1.0	260	12
APR						
21...	80	90	20	.4	36	13
MAY						
12...	122	50	20	.7	<30	28
JUN						
08...	140	55	22	.7	<30	28
22...	177	60	17	1.0	<30	34
JUL						
27...	199	50	14	--	30	--
AUG						
24...	105	60	23	.8	30	--
SEP						
07...	104	70	27	.4	--	--

ALTAMAHA RIVER BASIN

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02226100 PENHOLOWAY CREEK NEAR JESUP, GA.

LOCATION.--Lat 31°34'00", long 81°50'18", Wayne County, Hydrologic Unit 03070106, on downstream side of bridge on U.S. Highway 341, 4 mi (6.4 km) southeast of Jesup, and about 9.5 mi (15.3 km) upstream from mouth.
DRAINAGE AREA.--210 mi² (540 km²), approximately.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 19.09 ft (5.82 m) above mean sea level. Since May 6, 1966, auxiliary water-stage recorder at highway bridge, 2.5 mi (4.0 km) downstream.

REMARKS.--Records good except those below 10 ft³/s (0.28 m³/s), which are fair.AVERAGE DISCHARGE.--19 years, 209 ft³/s (5.92 m³/s), 13.52 in/yr (343.4 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,300 ft³/s (122 m³/s) Apr. 17, 1961, gage height, 14.8 ft (4.51 m); no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,060 ft³/s (58.3 m³/s) Nov. 30, gage height, 12.45 ft (3.799 m); minimum daily, no flow May 1-23, 30, 31, June 1 to July 2, July 7-28, and Aug. 9-18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165	122	1910	435	164	333	99	.00	.00	.00	5.0	7.1
2	162	104	1660	430	149	324	103	.00	.00	.00	4.1	4.0
3	147	90	1420	580	141	289	105	.00	.00	1.4	3.7	7.9
4	120	77	1190	1330	173	245	105	.00	.00	1.7	3.0	42
5	96	66	973	1570	200	327	99	.00	.00	.97	1.4	84
6	79	56	812	1580	223	452	89	.00	.00	.05	1.2	126
7	68	48	692	1420	225	731	76	.00	.00	.00	.74	186
8	61	41	693	1210	206	1010	68	.00	.00	.00	.07	213
9	71	35	753	1010	181	1010	55	.00	.00	.00	.00	163
10	95	32	741	870	157	914	40	.00	.00	.00	.00	106
11	123	29	700	763	137	778	30	.00	.00	.00	.00	77
12	130	27	712	637	126	631	22	.00	.00	.00	.00	57
13	112	24	756	510	116	673	16	.00	.00	.00	.00	45
14	78	23	796	441	108	884	12	.00	.00	.00	.00	39
15	53	25	909	420	102	854	8.9	.00	.00	.00	.00	40
16	40	28	990	403	95	821	6.7	.00	.00	.00	.00	51
17	204	44	959	378	87	657	5.0	.00	.00	.00	.00	74
18	403	95	879	357	79	490	4.0	.00	.00	.00	.00	148
19	441	121	769	323	73	388	2.8	.00	.00	.00	2.7	374
20	488	150	644	291	83	322	1.9	.00	.00	.00	16	455
21	457	179	540	254	80	252	1.8	.00	.00	.00	48	452
22	376	189	468	219	74	201	.86	.00	.00	.00	27	463
23	286	179	425	199	70	172	.08	.00	.00	.00	14	429
24	181	158	386	188	102	147	1.5	.41	.00	.00	8.7	375
25	123	130	358	191	156	124	2.2	2.6	.00	.00	8.0	306
26	134	130	363	190	170	100	.83	.82	.00	.00	12	199
27	160	354	396	189	195	83	.75	1.2	.00	.00	11	129
28	189	1060	423	198	307	70	2.7	.94	.00	.00	7.4	127
29	194	1850	439	197	---	58	1.5	.07	.00	.00	6.9	121
30	177	2040	434	188	---	49	.48	.00	.00	5.4	13	149
31	148	---	426	178	---	68	---	.00	---	5.6	12	---
TOTAL	5561	7506	23616	17149	3979	13457	961.00	6.04	.00	16.52	205.91	5049.0
MEAN	179	250	762	553	142	434	32.0	.19	.000	.53	6.64	168
MAX	488	2040	1910	1580	307	1010	105	2.6	.00	5.6	48	463
MIN	40	23	358	178	70	49	.08	.00	.00	.00	.00	4.0
CFSM	.85	1.19	3.63	2.63	.68	2.07	.15	.001	.000	.003	.03	.80
IN.	.99	1.33	4.18	3.04	.70	2.38	.17	.00	.00	.00	.04	.89

CAL YR 1976 TOTAL 92524.28 MEAN 253 MAX 2040 MIN .04 CFSM 1.21 IN 16.39
WTR YR 1977 TOTAL 77506.47 MEAN 212 MAX 2040 MIN .00 CFSM 1.01 IN 13.73

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)				
AUG 24...	1115	8.7	66	5.3	26.0	2.4				
DATE	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (CA, MG)	NON-CARBONATE HARD-NESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)
AUG 24...	200	10	5	2.3	1.0	7.2	1.6	6	0	5
DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED (TONS PER DAY)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)
AUG 24...	13	9.0	.1	4.9	78	44	1.83	.02	.09	.01
DATE	DIS-SOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DIS-SOLVED AMMONIA NITROGEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DIS-SOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	SUSPENDED KJEL. NITROGEN (N) (MG/L)
AUG 24...	.03	.03	.03	.06	.06	.08	1.1	1.1	1.2	.00
DATE	DIS-SOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOSPHATE (PO4) (MG/L)	DIS-SOLVED ALUMINUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)
AUG 24...	1.2	1.2	5.4	130	.22	.20	.61	250	0	0
DATE	DIS-SOLVED CHROMIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	
AUG 24...	2	8	690	8	20	.0	0	30	7.0	

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.

LOCATION.--Lat 31°25'37", long 81°36'20", Glynn-McIntosh County line, Hydrologic Unit 03070106, at Seaboard Coast Line Railroad bridge, 3 mi (5 km) northeast of Everett City, and 15 mi (24 km) northwest of Brunswick.

DRAINAGE AREA.--14,000 mi² (36,300 km²), approximately.

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1969 to current year.

pH: November 1969 to current year.

WATER TEMPERATURES: October 1969 to current year.

DISSOLVED OXYGEN: April 1970 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 262 micromhos Oct. 11, 1970; minimum recorded, 32 micromhos Apr. 9, 1973.

pH: Maximum recorded, 8.9 units Oct. 21, 22, 1971; minimum recorded, 5.3 units Dec. 12, 1976.

WATER TEMPERATURE: Maximum, 32.5°C July 9-15, 1977; minimum recorded, 3.0°C Jan. 10, 11, 1970, Jan. 20, 21, 1977.

DISSOLVED OXYGEN: Maximum recorded, 12.3 mg/L Feb. 3, 10, 11, 1977; minimum recorded, 3.8 mg/L Sept. 8, 1970.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 213 micromhos July 31, Aug. 1; minimum, 44 micromhos Dec. 27.

pH: Maximum, 7.5 units Nov. 9; minimum, 5.3 units Dec. 12.

WATER TEMPERATURE: Maximum, 32.5°C July 9-15, 22; minimum recorded, 3.0°C Jan. 20, 21.

DISSOLVED OXYGEN: Maximum recorded, 12.3 mg/L Feb. 3, 10, 11; minimum, 4.1 mg/L Sept. 17.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
13...	1530	7900	6.7	23.5	20.0	7.5
DEC						
06...	1715	32500	6.1	--	10.6	9.0
JAN						
05...	1200	32300	6.4	12.0	7.6	10.2
FEB						
02...	1600	26500	6.8	10.0	5.6	11.8
MAR						
01...	0930	13800	6.7	7.5	13.5	8.6
30...	0800	41900	6.3	21.0	18.4	8.3
APR						
29...	0800	9560	6.8	17.3	20.0	7.7
MAY						
23...	1800	6120	6.9	--	25.3	6.9
JUN						
21...	1300	4130	7.0	35.0	30.0	5.7
JUL						
19...	1600	3380	7.0	32.0	31.2	5.5
AUG						
24...	1015	4630	6.7	28.0	28.5	5.4

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 13...	113	70	13	1.0	133	24	23	10	.23	<.02	.07	10
DEC 06...	56	120	14	1.1	930	13	9	7.3	<.02	<.02	.05	15
JAN 05...	60	60	16	1.2	91	15	13	5.0	.07	<.02	.03	10
FEB 02...	66	55	17	.6	91	15	15	7.0	.19	<.02	.04	6.0
MAR 01...	87	80	14	1.0	<30	20	21	7.8	.16	<.02	.05	6.0
MAR 30...	63	80	21	.7	91	16	15	5.0	.05	<.02	.06	7.0
APR 29...	108	100	25	.4	36	26	29	9.2	.40	--	.09	6.0
MAY 23...	141	40	22	1.0	91	30	35	11	.55	.02	.09	5.0
JUN 21...	180	60	15	.8	90	33	42	16	.42	.02	.07	4.6
JUL 19...	191	80	18	.8	235	--	--	17	.33	.15	.11	8.0
AUG 24...	152	60	21	.8	<60	--	--	14	.41	.02	.10	8.0

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	150	138	89	82	80	70	61	52	---	---	91	78
2	147	123	91	86	72	63	60	54	72	64	87	77
3	145	113	98	89	66	54	58	55	72	65	83	76
4	121	112	102	92	62	52	59	53	71	65	77	72
5	124	115	105	96	59	54	66	58	74	66	73	72
6	130	119	108	97	58	56	67	56	78	68	72	68
7	133	123	112	101	58	55	63	57	81	68	---	---
8	125	117	129	112	65	58	64	56	79	69	71	64
9	124	116	132	118	66	55	60	54	80	73	72	61
10	128	120	127	116	64	57	62	52	82	68	66	57
11	126	117	127	119	59	57	64	55	82	66	60	52
12	124	114	134	125	58	52	63	53	79	68	55	50
13	120	109	139	132	60	56	61	54	81	72	---	---
14	118	101	140	136	60	56	58	55	85	76	---	---
15	109	97	142	140	59	56	60	53	86	74	63	54
16	106	97	143	138	58	52	64	54	87	79	65	55
17	103	97	138	128	61	49	67	57	88	78	67	60
18	103	98	131	120	59	47	67	61	88	75	65	57
19	98	89	128	116	57	49	74	63	83	75	62	55
20	87	76	115	110	54	50	74	64	92	81	64	58
21	84	74	111	105	59	54	72	61	94	83	66	63
22	84	71	114	105	60	50	71	60	94	80	73	64
23	82	69	116	105	57	54	69	60	91	79	75	67
24	80	69	117	104	61	49	69	64	85	78	---	---
25	76	72	115	101	58	48	---	---	87	74	---	---
26	77	73	113	105	54	49	---	---	89	77	---	---
27	79	75	104	96	55	44	---	---	85	79	---	---
28	82	78	96	84	53	46	---	---	91	81	---	---
29	83	74	88	83	54	46	---	---	---	---	73	68
30	80	74	88	81	57	45	---	---	---	---	73	55
31	86	77	---	---	54	48	---	---	---	---	---	---
MONTH	150	69	143	81	80	44	74	52	94	64	91	50
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	109	101	149	140	152	144	213	202	137	113
2	---	---	113	101	150	141	159	151	209	204	156	113
3	---	---	115	107	150	139	161	153	210	203	164	157
4	56	55	118	108	144	130	179	162	207	203	176	164
5	60	55	121	112	138	128	188	142	208	187	171	159
6	---	---	122	112	138	128	136	112	185	172	162	124
7	67	58	121	112	137	130	159	138	178	156	124	110
8	69	56	120	108	138	128	178	160	158	145	115	95
9	69	61	123	117	140	130	187	177	150	131	97	88
10	71	62	125	117	144	136	187	174	135	117	97	85
11	73	62	128	119	147	137	181	172	124	111	112	98
12	73	63	129	121	148	141	184	176	121	112	118	107
13	72	60	132	121	154	145	183	167	118	112	162	106
14	68	56	135	124	162	152	172	163	117	109	168	160
15	66	54	140	129	169	160	175	165	118	111	163	147
16	66	64	144	135	176	168	185	176	123	109	149	144
17	---	---	151	138	185	176	195	185	128	117	162	147
18	---	---	148	137	186	177	202	192	136	125	167	161
19	---	---	151	139	185	178	203	191	141	127	163	150
20	69	63	164	135	186	178	197	187	143	140	150	135
21	70	61	153	144	187	180	201	191	149	144	138	135
22	78	69	154	146	187	180	202	192	155	147	---	---
23	84	79	148	141	193	182	197	189	159	149	---	---
24	---	---	142	130	196	187	193	186	162	158	---	---
25	---	---	137	127	193	184	202	190	163	157	133	127
26	---	---	141	133	191	183	205	193	164	155	138	133
27	---	---	142	133	187	177	199	193	164	158	136	132
28	117	106	140	127	182	161	194	188	163	149	137	132
29	120	102	135	127	164	148	196	183	152	145	145	138
30	113	102	135	127	154	144	204	197	156	152	151	142
31	---	---	144	133	---	---	213	204	156	138	---	---
MONTH	120	54	164	101	196	128	213	112	213	109	176	85

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.1	6.8	6.9	6.7	6.7	6.5	6.9	6.6	---	---	7.0	6.7
2	7.2	6.7	7.3	6.8	6.6	6.4	6.9	6.7	7.0	6.8	6.9	6.7
3	7.0	6.6	7.0	6.5	6.6	6.1	6.7	6.1	6.9	6.4	6.8	6.6
4	7.0	6.7	7.2	6.7	6.5	6.1	6.6	6.1	6.9	6.4	6.6	6.0
5	7.0	6.6	7.3	6.9	6.5	6.3	6.6	6.1	7.0	6.4	6.6	6.0
6	7.0	6.5	7.3	6.9	6.5	5.9	6.8	6.2	7.0	6.8	6.6	6.4
7	7.0	6.7	7.3	6.8	6.5	6.0	6.8	6.4	7.0	6.5	---	---
8	7.0	6.7	7.4	7.1	6.7	5.8	6.7	6.5	7.0	6.8	6.7	6.6
9	7.1	6.8	7.5	6.9	6.1	5.7	6.5	6.2	7.0	6.8	6.6	6.4
10	7.2	6.9	7.4	6.8	6.0	5.8	6.8	6.7	7.1	6.5	6.5	6.3
11	7.2	6.9	7.2	6.7	6.1	5.9	6.8	6.5	7.1	6.5	6.5	6.2
12	7.2	6.8	7.2	6.9	6.2	5.3	6.9	6.6	6.9	6.6	6.4	5.9
13	7.3	6.7	7.4	7.1	6.1	5.9	6.8	6.4	7.0	6.6	---	---
14	7.3	6.6	7.3	7.2	6.1	5.5	6.5	6.3	7.1	6.7	---	---
15	7.3	6.8	7.3	6.9	6.4	5.7	6.8	6.3	7.1	6.8	6.7	6.3
16	7.2	6.9	7.2	6.9	6.1	5.8	6.9	6.3	7.0	6.9	6.6	6.3
17	7.1	6.8	7.1	6.8	6.3	5.8	6.9	6.7	7.1	6.8	6.7	6.6
18	7.4	6.8	7.1	6.7	6.3	5.9	6.9	6.7	7.0	6.7	6.6	6.4
19	7.4	6.9	7.2	6.7	6.2	5.7	7.0	6.8	7.0	6.6	6.6	6.4
20	7.0	6.5	6.9	6.8	6.1	5.5	7.0	6.8	7.1	6.7	6.7	6.4
21	6.9	6.5	7.0	6.7	6.2	6.0	7.0	6.8	7.1	6.8	6.6	6.5
22	7.0	6.6	7.1	6.9	6.3	5.9	7.1	6.7	7.1	6.8	6.8	6.5
23	7.0	6.6	7.3	6.8	6.3	6.1	7.0	6.7	7.0	6.7	6.8	6.7
24	6.9	6.4	7.3	6.8	6.5	6.0	6.7	6.4	7.1	6.5	---	---
25	---	---	7.3	6.5	6.3	5.6	---	---	7.0	6.7	---	---
26	---	---	7.2	6.8	6.6	5.6	---	---	6.9	6.7	---	---
27	6.7	6.3	6.8	6.4	6.6	6.3	---	---	6.9	6.5	---	---
28	6.9	6.7	6.8	6.1	6.5	5.8	---	---	7.0	6.8	---	---
29	---	---	6.8	6.2	6.7	5.8	---	---	---	---	6.7	6.6
30	---	---	6.8	6.6	6.8	6.2	---	---	---	---	6.7	6.3
31	6.9	6.6	---	---	6.8	6.0	---	---	---	---	---	---
MONTH	7.4	6.3	7.5	6.1	6.8	5.3	7.1	6.1	7.1	6.4	7.0	5.9
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	6.9	6.3	6.9	6.6	7.2	6.9	7.0	6.8	7.3	7.1
2	---	---	6.9	6.3	7.0	6.7	7.1	6.8	7.0	6.7	7.2	6.7
3	---	---	6.9	6.4	7.0	6.8	7.0	6.7	7.1	6.9	7.2	6.4
4	6.6	6.3	6.9	6.5	7.0	6.8	6.9	6.7	7.1	6.8	7.1	6.2
5	6.6	6.1	6.9	6.5	7.0	6.7	7.0	6.8	7.1	6.9	6.9	6.4
6	---	---	7.0	6.6	7.0	6.7	7.0	6.8	7.1	6.9	7.0	6.4
7	6.7	6.4	7.0	6.8	7.0	6.9	7.1	6.8	7.0	6.8	7.0	6.6
8	6.7	6.1	7.0	6.6	7.1	6.8	7.1	6.8	7.0	6.7	7.1	6.7
9	6.8	6.5	7.1	6.8	7.1	6.9	7.1	6.8	6.9	6.5	7.0	6.3
10	6.7	6.5	7.1	6.9	7.1	7.0	7.1	6.9	6.8	6.4	7.0	6.6
11	6.7	6.4	7.2	6.9	7.1	6.9	7.1	6.9	6.8	6.4	7.1	6.8
12	6.7	6.2	7.2	6.9	7.1	6.9	7.1	6.9	6.7	6.4	7.2	7.0
13	6.7	6.2	7.2	7.0	7.1	6.8	7.1	6.9	6.7	6.5	7.2	6.9
14	6.7	6.3	7.2	6.9	7.1	6.9	7.0	6.8	6.8	6.3	7.2	6.9
15	6.7	6.2	7.2	7.0	7.1	6.9	7.0	6.8	6.7	6.3	7.3	6.8
16	6.7	6.5	7.3	7.1	7.1	7.0	7.0	6.9	6.7	6.3	7.2	6.8
17	---	---	7.3	7.0	7.0	6.8	7.0	6.9	6.8	6.3	7.2	6.8
18	---	---	7.2	6.9	7.1	6.9	7.0	6.8	6.8	6.4	7.2	6.9
19	---	---	7.3	7.0	7.1	7.0	7.2	6.8	6.8	6.7	7.2	6.7
20	6.8	6.4	7.2	6.8	7.2	7.0	7.2	7.0	6.8	6.6	6.8	6.4
21	6.7	6.5	7.2	6.6	7.2	6.8	7.2	7.0	6.8	6.6	6.8	6.6
22	6.6	6.5	7.2	6.6	7.2	6.8	7.3	6.9	6.8	6.6	---	---
23	6.4	6.2	6.9	6.4	7.1	6.9	7.2	7.1	6.8	6.6	---	---
24	---	---	6.9	6.5	7.1	6.9	7.2	7.1	7.4	6.5	---	---
25	---	---	6.8	6.5	7.1	6.8	7.2	7.0	7.2	6.7	6.7	6.7
26	---	---	6.8	6.4	7.2	6.9	7.2	6.9	7.2	6.9	6.8	6.7
27	---	---	6.9	6.4	7.2	6.9	7.1	6.9	7.3	6.9	6.8	6.8
28	7.0	6.8	7.0	6.5	7.2	6.9	7.0	6.8	7.3	6.8	6.9	6.8
29	6.9	6.5	6.9	6.6	7.2	6.8	7.1	6.7	7.2	6.9	6.9	6.8
30	6.8	6.4	6.9	6.7	7.2	6.9	7.1	6.9	7.2	6.7	6.9	6.8
31	---	---	6.9	6.7	---	---	7.0	6.9	7.2	6.8	---	---
MONTH	7.0	6.1	7.3	6.3	7.2	6.6	7.3	6.7	7.4	6.3	7.3	6.2

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	26.5	24.5	15.0	14.5	12.0	10.5	9.0	8.5	---	---	14.0	13.5
2	25.0	24.0	14.5	14.0	10.5	10.0	8.5	7.5	5.5	5.0	14.0	13.0
3	24.5	23.0	14.5	14.0	10.5	10.0	7.5	7.0	6.0	5.0	14.0	13.0
4	24.0	23.0	14.5	14.0	10.5	10.0	7.5	7.0	7.0	6.0	15.0	14.0
5	24.5	23.0	14.5	13.5	10.5	10.0	8.0	7.0	7.5	6.5	15.5	15.0
6	24.5	23.0	13.5	13.0	11.0	10.5	8.5	7.5	7.5	7.0	15.5	15.0
7	25.5	24.0	13.5	12.5	11.0	11.0	9.0	8.5	7.0	6.5	---	---
8	25.5	24.0	13.0	12.5	11.0	10.0	8.5	8.0	7.0	6.0	15.0	14.5
9	24.5	21.0	12.5	11.5	10.0	9.0	8.5	8.0	7.0	6.5	15.0	14.0
10	23.0	19.5	12.5	11.5	9.5	9.0	9.5	8.5	7.0	6.0	15.0	14.5
11	21.0	19.0	13.5	12.0	10.0	9.5	8.5	7.5	8.0	6.5	15.5	14.5
12	20.5	18.5	14.0	13.5	11.0	10.0	7.0	6.5	9.0	7.5	16.5	15.5
13	20.0	19.0	14.0	13.0	11.5	11.0	7.0	6.5	9.5	9.0	---	---
14	20.5	19.0	13.0	12.5	11.0	11.0	8.0	7.0	10.0	9.5	---	---
15	21.0	19.0	12.5	12.0	11.5	11.0	8.5	8.0	11.0	9.5	18.0	17.0
16	21.0	20.0	12.0	11.5	11.5	11.0	8.5	7.5	10.5	9.5	18.5	17.0
17	22.0	20.5	12.0	11.5	11.5	11.0	8.0	6.5	9.5	9.0	18.5	18.0
18	21.5	20.0	13.0	11.5	11.5	11.0	7.0	5.0	9.5	8.5	19.0	17.5
19	19.0	18.0	13.0	12.0	11.5	11.0	5.0	3.5	11.5	9.5	20.0	18.5
20	18.5	17.5	13.0	12.5	11.5	11.5	4.0	3.0	12.5	11.5	20.0	19.5
21	17.5	16.0	13.5	13.0	11.5	9.5	4.5	3.0	11.5	10.5	19.5	19.0
22	16.5	15.5	13.0	12.0	9.5	8.5	4.5	3.5	11.0	10.0	19.0	18.5
23	17.0	16.0	12.0	11.0	8.5	8.0	4.5	3.5	12.0	10.5	18.5	17.5
24	17.5	16.5	11.0	10.5	8.5	7.5	4.5	4.0	13.5	12.0	---	---
25	17.5	16.5	11.0	10.0	8.5	7.5	---	---	14.5	13.0	---	---
26	17.0	16.5	11.0	10.5	9.0	8.5	---	---	15.0	13.5	---	---
27	16.5	16.0	12.0	11.0	8.5	8.0	---	---	16.0	15.0	---	---
28	16.0	14.0	14.5	12.5	9.0	8.0	---	---	15.5	14.5	---	---
29	14.0	13.5	15.0	14.5	9.5	8.5	---	---	---	---	18.5	18.0
30	14.5	13.5	14.5	12.0	9.0	8.5	---	---	---	---	18.5	18.0
31	15.5	14.5	---	---	9.5	9.0	---	---	---	---	---	---
MONTH	26.5	13.5	15.0	10.0	12.0	7.5	9.5	3.0	16.0	5.0	20.0	13.0
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	22.5	21.0	28.5	27.0	31.5	30.0	30.0	28.5	29.5	28.5
2	---	---	23.0	22.0	28.5	27.5	30.5	29.5	30.5	29.0	29.0	28.0
3	---	---	24.0	22.5	29.0	27.5	30.0	28.5	30.0	29.0	28.5	27.5
4	21.0	20.5	24.0	23.0	29.0	28.0	30.5	29.0	29.5	28.5	28.0	27.0
5	21.0	20.0	24.5	23.5	29.5	28.0	31.0	29.5	31.0	28.5	28.0	27.0
6	---	---	25.5	24.0	29.5	28.0	31.0	29.5	30.5	29.0	28.0	27.0
7	19.0	18.5	26.0	24.5	28.5	27.5	31.5	30.0	30.5	29.0	28.5	27.5
8	19.0	17.5	26.5	25.5	28.0	27.0	32.0	30.0	31.0	29.5	28.5	28.0
9	19.0	18.5	26.5	25.5	28.0	26.5	32.5	31.0	31.0	29.5	29.0	28.0
10	19.0	18.5	25.5	24.5	28.0	26.5	32.5	31.0	30.5	29.5	29.0	27.5
11	19.0	18.0	24.5	23.5	28.5	27.0	32.5	31.0	30.0	29.5	29.0	28.0
12	19.0	18.5	24.0	23.0	28.5	27.5	32.5	31.0	29.5	29.0	29.0	28.0
13	19.5	18.5	24.0	22.5	29.5	28.0	32.5	31.0	29.0	28.5	28.5	28.0
14	19.5	19.0	24.5	23.0	30.0	28.0	32.5	31.5	28.5	28.0	29.0	27.5
15	19.5	19.0	25.5	23.5	30.5	29.0	32.5	31.5	28.5	27.5	29.5	28.0
16	19.5	19.0	26.0	24.5	30.5	29.5	32.0	31.0	28.5	27.5	28.0	27.5
17	---	---	26.5	25.0	30.0	29.0	31.5	30.5	29.0	27.5	28.0	27.0
18	---	---	27.0	25.0	30.5	29.0	31.0	29.5	29.5	28.0	28.0	26.5
19	---	---	27.0	25.0	30.0	28.5	31.0	30.0	29.5	28.0	27.0	26.0
20	21.0	21.0	26.5	25.5	30.5	29.0	31.5	30.0	28.0	27.5	27.0	26.0
21	21.5	20.5	26.5	25.5	30.5	29.0	31.5	30.0	28.0	27.5	27.0	27.0
22	21.5	21.0	27.0	26.0	31.0	29.0	32.5	31.0	28.5	27.5	---	---
23	21.5	21.5	26.5	25.0	31.0	29.0	31.5	30.5	29.0	27.5	---	---
24	---	---	25.0	24.5	31.5	29.5	31.0	30.0	28.5	28.0	---	---
25	---	---	25.0	24.5	31.5	30.0	30.5	29.5	29.5	28.0	27.5	27.0
26	---	---	25.0	24.0	32.0	30.5	31.0	29.5	29.5	28.5	27.5	26.5
27	---	---	25.0	24.0	31.5	30.5	30.0	29.5	29.0	28.0	28.0	26.5
28	20.5	20.0	26.0	24.5	32.0	30.5	29.5	28.5	29.5	28.5	28.0	26.5
29	21.5	20.0	26.0	25.0	31.5	30.5	29.5	27.5	29.5	28.5	27.5	26.5
30	21.5	21.0	27.0	25.5	32.0	30.5	29.5	28.5	29.5	28.5	27.0	26.5
31	---	---	27.5	26.0	---	---	29.5	28.5	29.5	28.5	---	---
MONTH	21.5	17.5	27.5	21.0	32.0	26.5	32.5	27.5	31.0	27.5	29.5	26.0

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.5	6.2	8.0	7.9	8.0	7.3	10.2	9.9	---	---	8.9	8.5
2	6.8	6.6	8.2	8.0	8.4	7.9	10.3	10.0	12.1	11.6	8.9	8.9
3	7.2	6.9	8.3	8.1	8.9	8.3	10.5	10.3	12.3	11.8	9.0	8.8
4	7.8	7.4	8.2	8.2	9.0	8.6	10.5	10.1	12.0	11.8	8.8	8.4
5	7.8	7.2	8.5	8.3	9.2	8.7	10.3	9.2	11.8	11.4	8.4	7.8
6	7.7	7.2	8.6	8.4	9.1	7.4	9.9	9.4	11.8	11.6	8.3	7.8
7	7.5	7.1	8.8	8.6	9.7	8.4	10.0	9.5	12.0	11.6	---	---
8	7.5	6.7	9.0	8.8	9.7	9.0	9.9	9.6	12.1	12.0	8.3	7.8
9	7.0	6.4	9.0	8.8	10.0	9.3	10.2	9.7	12.2	12.1	8.4	8.2
10	7.9	7.5	9.1	8.9	10.4	9.9	10.2	9.7	12.3	12.1	8.4	8.2
11	8.1	7.9	9.1	8.8	10.3	10.0	10.1	9.8	12.3	12.1	8.2	8.1
12	8.2	7.4	8.9	8.6	10.1	9.7	10.2	10.0	12.2	11.8	8.1	7.9
13	7.9	7.2	8.9	8.8	9.8	9.2	10.4	10.2	12.0	11.4	---	---
14	7.8	7.4	9.0	8.9	9.5	9.1	10.7	10.5	11.5	11.2	---	---
15	7.7	7.0	9.2	9.0	9.6	8.9	10.7	10.1	11.2	10.5	8.1	7.6
16	7.6	6.7	9.5	9.1	9.4	8.9	10.7	10.4	10.9	10.3	8.0	7.4
17	---	---	9.7	9.3	9.0	8.7	10.6	10.4	10.6	10.3	7.8	7.3
18	---	---	9.7	5.5	9.2	8.8	10.7	10.5	10.7	10.6	7.6	7.2
19	---	---	8.8	5.5	9.1	8.7	11.4	10.6	10.6	10.3	7.4	6.7
20	7.3	6.5	9.1	8.6	9.0	8.5	---	---	10.2	10.0	7.2	6.6
21	7.3	6.6	8.7	8.2	8.8	4.5	---	---	10.2	9.9	7.1	6.6
22	7.3	6.9	8.5	8.2	8.9	4.6	---	---	10.3	10.2	7.2	6.8
23	7.8	7.0	9.0	8.2	9.8	9.0	---	---	10.3	10.1	7.3	7.0
24	7.7	7.1	9.2	8.6	10.2	9.7	---	---	10.1	9.6	---	---
25	7.7	7.4	9.3	8.8	10.3	10.0	---	---	9.6	9.3	---	---
26	7.6	7.1	9.4	9.0	10.5	10.0	---	---	9.4	9.1	---	---
27	7.3	7.2	9.3	8.7	10.3	9.9	---	---	9.1	8.7	---	---
28	7.7	7.4	8.9	7.9	10.5	10.2	---	---	8.7	8.5	---	---
29	8.2	7.8	8.0	7.1	10.5	10.0	---	---	---	---	8.6	8.3
30	8.2	8.0	7.4	7.0	10.4	10.1	---	---	---	---	8.5	8.3
31	8.1	7.9	---	---	10.4	9.9	---	---	---	---	---	---
MONTH	8.2	6.2	9.7	5.5	10.5	4.5	11.4	9.2	12.3	8.5	9.0	6.6
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	7.7	7.5	6.2	5.7	6.5	5.9	6.1	5.7	6.4	6.2
2	---	---	7.7	7.4	6.0	5.5	6.3	6.0	6.0	5.6	6.6	6.2
3	---	---	7.7	7.4	6.0	5.7	6.2	5.8	6.1	5.7	6.3	6.1
4	7.5	7.0	7.6	7.4	6.0	5.7	5.9	5.6	6.2	5.7	6.5	6.0
5	7.4	7.0	7.6	7.3	6.2	5.6	6.1	5.5	6.3	5.7	6.3	5.7
6	---	---	8.2	7.6	6.1	5.6	6.7	6.1	6.2	5.8	6.3	5.9
7	7.3	7.0	8.0	7.6	6.0	5.6	6.0	5.8	6.0	5.6	6.5	6.0
8	7.4	7.1	7.7	7.1	6.2	6.0	5.9	5.5	5.8	5.6	6.5	6.1
9	7.5	7.2	7.3	7.0	6.7	6.2	5.7	5.4	5.7	5.5	6.8	6.2
10	7.5	7.3	7.5	7.2	6.9	6.4	5.8	5.4	5.8	5.5	7.0	6.6
11	7.6	7.4	7.8	7.3	6.8	6.6	5.9	5.5	5.9	5.8	6.6	6.2
12	7.7	7.4	7.8	7.6	6.7	6.4	5.9	5.5	5.9	5.6	6.8	6.3
13	7.5	7.3	7.9	7.7	6.5	6.1	6.0	5.6	5.9	5.6	7.0	6.0
14	7.4	7.3	7.8	7.6	6.4	5.9	6.0	5.6	6.1	5.9	6.2	5.7
15	7.3	7.1	7.6	7.4	6.3	5.8	5.8	5.4	6.3	5.9	5.8	4.5
16	7.2	7.0	7.6	7.2	6.1	5.6	5.6	5.3	6.3	6.1	4.7	4.2
17	---	---	8.3	7.3	5.9	5.5	5.5	5.2	6.3	6.1	5.0	4.1
18	---	---	8.0	7.5	5.9	5.4	5.5	5.2	6.1	5.9	5.3	4.4
19	---	---	7.6	7.4	5.9	5.6	5.5	5.1	6.4	5.8	5.1	4.7
20	7.2	7.0	7.2	6.9	6.1	5.4	5.7	5.3	6.1	5.7	5.1	4.3
21	7.1	6.8	7.0	6.6	5.9	5.6	5.7	5.4	5.8	5.5	6.0	5.2
22	6.8	6.5	6.7	6.5	6.1	5.6	5.7	5.5	5.6	5.3	---	---
23	6.6	6.3	7.0	6.5	6.0	5.7	6.0	5.6	5.5	5.3	---	---
24	---	---	7.1	7.0	5.9	5.6	6.1	5.7	5.7	5.3	---	---
25	---	---	7.3	7.0	5.9	5.5	6.0	5.7	5.8	5.5	6.0	5.8
26	---	---	7.2	6.9	5.9	5.6	6.2	5.8	5.9	5.6	6.0	5.7
27	---	---	7.2	6.9	6.1	5.7	6.0	5.8	5.9	5.7	6.1	5.8
28	7.8	7.2	7.1	6.7	6.3	5.8	6.4	5.9	6.1	5.9	6.2	6.0
29	8.1	7.6	7.0	6.6	6.6	5.8	6.5	6.1	6.2	5.7	6.2	5.9
30	7.7	7.4	6.7	6.4	6.5	5.8	6.1	5.8	6.1	5.8	6.3	6.0
31	---	---	6.6	6.1	---	---	5.9	5.7	6.1	5.9	---	---
MONTH	8.1	6.3	8.3	6.1	6.9	5.4	6.7	5.1	6.4	5.3	7.0	4.1

RESERVOIRS IN ALTAMAHA RIVER BASIN

02210000 LLOYD SHOALS RESERVOIR.--Lat 33°19'13", long 83°50'20", Butts County, Hydrologic Unit 03070103, on Ocmulgee River, 1 mi (1.6 km) upstream from bridge on State Highway 16, and 7 mi (11.3 km) east of Jackson. DRAINAGE AREA, 1,400 mi² (3,626 km²). PERIOD OF RECORD, October 1929 to current year. Datum of gage is at mean sea level (levels by Georgia Power Co.).

Reservoir is formed by concrete gravity dam. Spillway (crest elevation, 528.0 and 525.0 ft) (160.9 and 160.0 m) is equipped with flashboards 308.5 ft (94.0 m) wide by 2 ft (0.61 m) high and 420 ft (128.0 m) wide by 5 ft (1.52 m) high. Dam completed in 1910. Total capacity at elevation 530.0 ft (161.5 m) (top of flashboards) is 107,000 acre-ft (132 hm³), of which 78,000 acre-ft (96.2 hm³) is usable storage. Reservoir is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Co.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	525.7	87800	-	-
Oct. 31.....	524.9	74600	-13200	-215
Nov. 30.....	527.3	94400	+19800	+333
Dec. 31.....	526.8	92200	-2200	-36
CAL YR 1976	-	-	+9600	+13
Jan. 31.....	528.0	97500	+5300	+86
Feb. 28.....	528.6	100000	+2500	+45
Mar. 31.....	530.3	108000	+8000	+130
Apr. 30.....	527.7	96200	-11800	-198
May 31.....	529.1	102000	+5800	+94
June 30.....	529.2	103000	+1000	+17
July 31.....	528.8	101000	-2000	-33
Aug. 31.....	528.6	100000	-1000	-16
Sept. 30.....	526.8	92200	-7800	-131
WTR YR 1977	-	-	+4400	+6

† Elevation at 0700 on day following that shown in first column.

02222500 SINCLAIR RESERVOIR.--Lat 33°08'27", long 83°12'08", Baldwin County, Hydrologic Unit 03070101, on Oconee River, 1.5 mi (2.4 km) upstream from Georgia Railroad bridge, and 4 mi (6.4 km) north of Milledgeville. DRAINAGE AREA, 2,900 mi² (7,511 km²). PERIOD OF RECORD, October 1952 to current year. Datum of gage is at mean sea level (levels by Georgia Power Co.).

Reservoir is formed by concrete gravity dam. Spillway (crest elevation, 319 ft) (97.2 m) is equipped with 24 gates 30 ft wide by 21 ft high (9.14 m by 6.40 m). Storage began in 1952; water in reservoir first reached minimum pool elevation in 1953. Total capacity at elevation 340.0 ft (103.6 m), top of gages, is 334,000 acre-ft (412 hm³), of which 214,600 acre-ft (265 hm³) is usable storage. Reservoir is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Co.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	337.6	298400	-	-
Oct. 31.....	336.8	287200	-11200	-182
Nov. 30.....	338.6	313000	+25800	+434
Dec. 31.....	336.7	285800	-27200	-442
CAL YR 1976	-	-	+11100	+15
Jan. 31.....	336.8	287200	+1400	+23
Feb. 28.....	338.3	308500	+21300	+384
Mar. 31.....	338.4	310000	+1500	+24
Apr. 30.....	338.6	313000	+3000	+50
May 31.....	338.9	317500	+4500	+73
June 30.....	337.7	299800	-17700	-297
July 31.....	338.0	304000	+4200	+68
Aug. 31.....	338.1	305500	+1500	+24
Sept. 30.....	337.7	294800	-5700	-96
WTR YR 1977	-	-	+1400	+2

† Elevation at 0700 on day following that shown in first column.

SATILLA RIVER BASIN

02226475 SATILLA RIVER AT WALTERTOWN, GA.

LOCATION.--Lat 31°18'17", long 82°23'33", Ware County, Hydrologic Unit 03070201, at county highway bridge at Waltertown, and 6 mi (10 km) north of Waycross.

PERIOD OF RECORD.--August 1973 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
05...	1145	455	4.9	26.0	20.0	7.6
NOV						
03...	0830	1360	4.7	12.0	11.5	8.1
DEC						
07...	1200	5100	4.9	13.0	9.5	9.9
JAN						
11...	1215	5400	5.2	-3.0	5.0	9.8
FEB						
08...	1030	1180	5.4	7.0	4.5	11.8
MAR						
14...	1230	3560	5.6	25.0	16.5	6.5
APR						
05...	1130	912	5.3	20.0	20.0	6.1
MAY						
03...	0945	54	6.0	24.5	23.0	6.3
JUN						
13...	1100	10	5.9	31.0	28.5	5.9
JUL						
12...	1245	19	5.6	34.0	31.0	4.9
AUG						
10...	0700	341	4.6	22.0	26.0	6.4
SEP						
13...	1200	918	4.9	30.0	25.0	5.9

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOP (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT											
05...	45	140	6	1.1	73	8	2	<.02	.04	.08	22
NOV											
03...	40	160	4	1.0	36	7	1	<.02	.02	.04	23
DEC											
07...	38	120	4	.8	<30	7	<1	<.02	<.02	.02	20
JAN											
11...	31	75	6	.7	36	6	1	.05	<.02	.02	15
FEB											
08...	33	90	8	.8	36	6	3	.15	.03	.04	12
MAR											
14...	29	160	10	.9	750	7	3	.09	<.02	.03	16
APR											
05...	39	160	13	1.2	430	8	4	.08	.11	.09	18
MAY											
03...	39	130	8	1.2	140	8	3	.11	<.02	.07	12
JUN											
13...	36	40	23	2.1	300	22	4	<.02	<.02	.04	6.6
JUL											
12...	47	90	14	--	930	--	--	<.02	<.02	.05	14
AUG											
10...	67	150	8	1.1	40	--	--	<.02	<.02	.08	24
SEP											
13...	45	200	10	--	--	--	--	<.02	<.02	.07	14

02226500 SATILLA RIVER NEAR WAYCROSS, GA.

LOCATION.--Lat 31°14'17", long 82°19'29", Ware-Pierce County line, Hydrologic Unit 03070201, on downstream side of pier near center span of bridge on State Highway 38, 3 mi (4.8 km) northeast of Waycross, and 16 mi (25.7 km) upstream from Alabama River.

DRAINAGE AREA.--1,200 mi² (3,110 km²), approximately.

PERIOD OF RECORD.--March 1937 to current year.

REVISED RECORDS.--WSP 952: 1939. WSP 1624: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 66.43 ft (20.25 m) above mean sea level. Prior to Nov. 22, 1952, nonrecording gage at site 300 ft (91 m) downstream at same datum.

REMARKS.--Records good. Records of chemical analyses for the water years 1968-73 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--40 years, 1,024 ft³/s (29.0 m³/s), 11.59 in/yr (294.4 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,000 ft³/s (1,100 m³/s) Apr. 4, 1948, gage height, 22.4 ft³/s (6.83 m) from floodmark; minimum, 6.0 ft³/s (0.170 m³/s) Nov. 3, 4, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1862, that of Apr. 4, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,660 ft³/s (274 m³/s) Dec. 3, gage height, 17.12 ft (5.218 m); minimum, 20 ft³/s (0.57 m³/s) July 26, 27.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	452	2220	7260	3190	1800	2140	768	90	40	50	105	897
2	590	1900	9100	3320	1720	2400	697	84	41	48	215	724
3	649	1630	9600	3770	1630	2630	699	83	37	46	356	602
4	638	1380	9110	4440	1590	2890	758	78	34	44	377	537
5	585	1140	8080	4960	1530	3260	871	69	31	42	433	553
6	529	973	6980	6130	1480	3450	997	63	30	42	468	558
7	504	835	6030	7820	1450	3840	1050	58	29	42	447	678
8	435	728	5450	8410	1430	4500	1030	54	28	42	421	911
9	533	644	4800	8100	1400	5710	984	50	27	42	432	1200
10	678	575	4270	7370	1350	7240	880	47	26	38	374	1420
11	798	525	4020	6410	1270	8030	737	44	25	34	281	1490
12	934	488	4190	5540	1170	7910	599	42	25	31	205	1360
13	1060	458	4520	4770	1070	7580	499	41	24	29	154	1070
14	1130	433	4770	4240	998	7500	426	39	24	29	129	831
15	1060	429	5130	3920	916	7120	364	37	23	29	109	663
16	911	435	5370	3690	835	6550	312	36	22	30	123	543
17	959	502	5610	3500	772	5780	268	34	22	29	198	474
18	1460	662	5780	3350	725	4930	234	33	25	28	231	480
19	2000	833	5760	3250	682	4240	206	32	25	28	307	633
20	2520	1070	5510	3200	647	3790	183	31	24	26	449	734
21	3520	1350	5080	3170	614	3450	161	31	23	25	478	920
22	5290	1550	4520	3110	623	3120	143	30	25	24	581	1100
23	6040	1680	4030	2970	690	2750	133	30	37	23	797	1260
24	5850	1750	3630	2740	832	2340	133	30	36	22	1150	1300
25	5320	1760	3240	2490	989	1930	122	34	31	21	1510	1190
26	4720	1730	3090	2250	1110	1620	115	51	30	20	1560	1030
27	4050	2120	2860	2040	1380	1440	116	58	44	30	1430	898
28	3610	3250	2700	1920	1770	1290	111	43	55	40	1340	757
29	3260	4070	2690	1890	---	1150	104	42	54	78	1290	586
30	2900	5070	2770	1870	---	1010	97	40	52	67	1220	459
31	2530	---	2990	1850	---	880	---	36	---	83	1070	---
TOTAL	65515	42190	158940	125680	32473	122470	13797	1470	949	1162	18240	25858
MEAN	2113	1406	5127	4054	1160	3951	460	47.4	31.6	37.5	588	862
MAX	6040	5070	9600	8410	1800	8030	1050	90	55	83	1560	1490
MIN	435	429	2690	1850	614	880	97	30	22	20	105	459
CFSM	1.76	1.17	4.27	3.38	.97	3.29	.38	.04	.03	.03	.49	.72
IN.	2.03	1.31	4.93	3.90	1.01	3.80	.43	.05	.03	.04	.57	.80
CAL YR 1976	TOTAL	628453	MEAN	1717	MAX	9600	MIN	36	CFSM	1.43	IN	19.48
WTR YR 1977	TOTAL	608744	MEAN	1668	MAX	9600	MIN	20	CFSM	1.39	IN	18.87

02226582 SATILLA RIVER NEAR HOBOKEN, GA.

LOCATION.--Lat 31°13'00", long 82°09'45", Brantley-Pierce County line, Hydrologic Unit 03070201, at bridge on State Highway 121, 3 mi (4.8 km) northeast of Hoboken.

DRAINAGE AREA.--1,350 mi² (3,500 km²), approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT 05...	1045	728	5.2	25.0	21.0	7.1
NOV 03...	1030	2280	4.7	16.0	12.0	8.0
DEC 07...	1100	7780	4.9	12.0	9.0	9.2
JAN 11...	1100	7980	5.2	-6.0	5.5	9.8
FEB 09...	0900	1560	5.4	5.0	5.5	10.5
MAR 14...	1120	8000	4.8	21.0	17.0	6.8
APR 05...	1000	812	5.8	23.0	20.0	6.4
MAY 03...	1135	107	6.7	29.5	24.5	6.5
JUN 14...	1350	47	7.2	36.0	29.0	7.2
JUL 12...	1330	38	6.7	35.0	31.5	5.3
AUG 10...	0800	830	5.3	25.0	27.0	5.6
SEP 13...	1315	1560	5.0	34.5	25.5	5.5

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- CORAL UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CaCO3 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 05...	44	160	7	.9	33000	9	2	--	.04	.06	.10	24
NOV 03...	41	160	5	1.0	64	7	1	--	<.02	.02	.04	24
DEC 07...	35	160	5	.7	<30	12	<1	--	<.02	<.02	.03	20
JAN 11...	30	100	7	.5	36	6	1	--	<.02	.04	.02	15
FEB 09...	37	140	7	.6	36	7	4	--	<.02	.06	.04	13
MAR 14...	29	150	9	1.1	36	5	1	--	<.02	<.02	.03	18
APR 05...	41	180	13	1.3	230	8	5	--	.12	.11	.10	18
MAY 03...	72	110	10	2.2	91	12	10	--	.35	.16	.27	12
JUN 14...	106	40	22	3.0	<30	28	19	--	.45	<.02	.53	8.0
JUL 12...	125	60	11	--	150	--	--	3	.61	.09	.55	6.5
AUG 10...	74	150	12	1.2	4300	--	--	24	.05	.11	.20	23
SEP 13...	47	200	12	--	--	--	--	1	<.02	<.02	.09	14

02227500 LITTLE SATILLA RIVER NEAR OFFERMAN, GA.

LOCATION.--Lat 31°27'04", long 82°03'17", Pierce-Wayne County line, Hydrologic Unit 03070202, at right bank pier of steel truss span of Seaboard Coast Line Railroad bridge, 1,500 ft (457 m) downstream from bridge on State Highway 38, 4 mi (6.4 km) northeast of Offerman, and 16 mi (26 km) upstream from mouth.

DRAINAGE AREA.--646 mi² (1,673 km²).

PERIOD OF RECORD.--January 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 58.00 ft (17.68 m) above mean sea level. Prior to Nov. 8, 1952, water-stage recorder at site 1,500 ft (457 m) upstream and Nov. 8, 1952 to Sept. 30, 1975, water-stage recorder at present site at datum 1.00 ft (0.30 m) higher.

REMARKS.--Records good except those for below 50 ft³/s (1.42 m³/s), which are fair, and those of no gage-height record, Oct. 2 to Nov. 10, which are poor. Records of chemical analyses for the water year 1970 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--26 years, 513 ft³/s (14.5 m³/s), 10.78 in/yr (273.8 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,200 ft³/s (487 m³/s) Sept. 29, 1953, gage height, 14.5 ft (4.42 m), present datum; no flow Oct. 10 to Nov. 14, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,920 ft³/s (168 m³/s) Nov. 30, gage height, 11.36 ft (3.463 m); minimum, 0.49 ft³/s (0.014 m³/s) July 1.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	259	960	5310	1650	813	1250	705	5.3	123	.58	106	380
2	240	820	5440	1650	774	1410	789	4.5	117	.71	190	300
3	240	720	4990	1960	740	1390	702	5.6	88	.71	141	330
4	240	620	4140	3370	771	1350	572	6.1	48	1.3	69	420
5	220	540	3310	4810	794	1540	560	5.0	26	2.2	42	500
6	200	480	2610	5030	786	1790	610	3.8	12	1.9	26	640
7	240	420	2090	4970	749	2200	605	2.9	7.0	1.3	17	722
8	300	360	1950	4440	705	2660	472	2.1	4.7	1.1	12	747
9	340	320	1930	3770	660	3430	352	1.8	3.0	.80	7.0	765
10	380	270	2260	3200	612	3970	295	1.5	1.9	.67	4.1	759
11	440	289	2600	2720	561	3870	256	1.4	1.3	.62	4.0	753
12	500	287	2860	2270	521	3330	210	1.3	1.2	.62	5.4	707
13	580	278	3010	1890	485	3190	169	1.2	.98	.58	3.5	575
14	540	270	3010	1700	458	3390	136	1.2	.92	.58	2.3	419
15	500	274	2980	1650	428	3310	112	1.1	.86	.54	11	299
16	700	280	3190	1660	400	2590	92	1.0	.80	.62	139	260
17	960	310	3300	1650	376	1930	76	.98	.80	.86	79	271
18	1300	512	3060	1630	356	1600	59	.98	.80	.76	33	360
19	1800	702	2800	1640	340	1340	47	.92	.86	.67	71	565
20	2400	813	2520	1630	363	1140	38	.92	.76	.62	332	625
21	3150	819	2170	1540	474	1010	29	.98	.67	.71	303	650
22	3300	792	1850	1420	533	925	23	.98	.76	.71	347	710
23	3250	769	1610	1270	532	831	18	.98	1.0	.67	412	613
24	2850	727	1380	1130	622	750	29	1.5	1.2	.62	504	498
25	2500	666	1210	1060	794	680	35	1.8	.80	.58	602	428
26	2200	649	1220	1020	868	610	26	1.8	.71	.58	630	328
27	1900	1010	1300	987	916	542	19	74	.67	.92	700	229
28	1650	1980	1410	972	1060	460	13	152	.62	1.1	740	339
29	1450	4810	1500	960	---	388	9.1	130	.58	23	660	342
30	1250	5720	1500	922	---	336	6.6	156	.54	54	580	297
31	1100	---	1590	859	---	412	---	135	---	42	460	---
TOTAL	36979	27467	80100	65430	17491	53624	7064.7	704.64	447.43	142.63	7232.3	14831
MEAN	1193	916	2584	2111	625	1730	235	22.7	14.9	4.60	233	494
MAX	3300	5720	5440	5030	1060	3970	789	156	123	54	740	765
MIN	200	270	1210	859	340	336	6.6	.92	.54	.54	2.3	229
CFSM	1.85	1.42	4.00	3.27	.97	2.68	.36	.04	.02	.007	.36	.77
IN.	2.13	1.58	4.61	3.77	1.01	3.09	.41	.04	.03	.01	.42	.85
CAL YR 1976	TOTAL	327482.90	MEAN 895	MAX 5720	MIN 1.8	CFSM 1.39	IN 18.86					
WTR YR 1977	TOTAL	311513.70	MEAN 853	MAX 5720	MIN .54	CFSM 1.32	IN 17.94					

02228000 SATILLA RIVER AT ATKINSON, GA.
(National stream-quality accounting network station)

LOCATION.--Lat 31°13'16", long 81°52'03", Brantley County, Hydrologic Unit 03070201, on left bank piling 25 ft (7.6 m) upstream from bridge on U.S. Highway 84, 400 ft (122 m) downstream from Seaboard Coast Line Railroad bridge, and 1 mi (1.6 km) west of Atkinson.

DRAINAGE AREA.--2,790 mi² (7,230 km²), approximately.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 1504: 1932. WSP 1624: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 14.79 ft (4.51 m) above mean sea level. Prior to Dec. 6, 1933, and Nov. 21, 1961 to Sept. 30, 1964, nonrecording gage at same site and datum.

REMARKS.--Records good except those for period of no gage-height record, May 7 to June 2 and July 30 to Aug. 22, which are fair. AVERAGE DISCHARGE.--47 years, 2,239 ft³/s (63.4 m³/s), 10.90 in/yr (276.9 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,100 ft³/s (1,930 m³/s) Apr. 6, 1948, gage height, 23.9 ft (7.28 m); minimum daily, 21 ft³/s (0.59 m³/s) Nov. 2-5, 7-13, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1862, 27.2 ft (8.29 m) in September 1929, from information by Georgia Department of Transportation; discharge, 110,000 ft³/s (3,120 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,600 ft³/s (498 m³/s) Dec. 7, gage height, 17.03 ft (5.191 m); minimum, 55 ft³/s (1.56 m³/s) July 25, 26.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1870	8700	7600	6880	4660	2410	2780	324	190	69	200	2270
2	1630	7850	9960	6680	4400	2690	2530	306	220	80	300	2360
3	1480	6980	13000	6820	4180	2980	2390	290	224	103	500	2390
4	1380	6090	14700	7320	4040	3330	2320	274	200	108	780	2420
5	1320	5200	15800	7840	3950	3980	2240	260	178	117	840	2510
6	1280	4400	16800	8420	3820	4750	2160	252	148	131	900	2510
7	1290	3760	17200	9600	3720	5540	2040	240	135	132	940	2360
8	1330	3300	16600	11600	3640	6170	1960	230	122	129	900	2210
9	1470	2890	15000	13400	3550	6900	1940	220	113	119	860	2070
10	1620	2550	13500	14600	3440	7710	1930	210	106	106	680	1970
11	1750	2240	12100	15200	3270	8640	1880	200	100	98	560	1930
12	1850	1960	11100	14900	3080	9730	1810	190	95	91	460	1940
13	1930	1740	10500	14300	2940	11200	1720	185	89	85	360	1990
14	1990	1580	9990	13300	2780	12900	1590	176	88	81	300	2060
15	2010	1450	9970	12100	2630	13600	1450	170	84	76	240	2110
16	1970	1340	10100	11000	2510	13800	1270	164	79	73	280	2110
17	1910	1290	10400	10000	2390	13700	1100	154	87	70	340	2000
18	1880	1330	10700	9190	2260	13600	930	150	78	71	380	1990
19	1970	1420	10800	8540	2120	12800	801	146	78	69	450	2180
20	2150	1570	11100	8020	1970	11700	693	138	75	65	540	2400
21	2530	1800	11000	7600	1810	10400	620	130	68	62	620	2470
22	3490	2060	10900	7240	1710	9340	557	126	71	60	720	2530
23	5930	2290	10600	6900	1630	8380	510	120	92	59	834	2550
24	8180	2510	10200	6640	1640	7440	490	115	90	59	939	2490
25	9280	2640	9810	6500	1710	6740	447	110	80	56	1050	2360
26	10000	2840	9470	6360	1770	6020	420	150	74	55	1180	2230
27	10500	3240	9000	6180	1910	5360	410	190	71	65	1320	2080
28	10900	4320	8470	5950	2160	4690	388	220	71	76	1490	1960
29	10800	5560	7840	5720	---	4080	362	190	69	95	1700	1820
30	10300	6470	7380	5260	---	3560	342	170	67	86	1920	1770
31	9550	---	7080	4980	---	3130	---	150	---	130	2120	---
TOTAL	125540	101360	348670	279040	79690	237270	40080	5950	3242	2676	24703	66040
MEAN	4050	3379	11250	9001	2846	7654	1336	192	108	86.3	797	2201
MAX	10900	8700	17200	15200	4660	13800	2780	324	224	132	2120	2550
MIN	1280	1290	7080	4980	1630	2410	342	110	67	55	200	1770
CFSM	1.45	1.21	4.03	3.23	1.02	2.74	.48	.07	.04	.03	.29	.79
IN.	1.67	1.35	4.65	3.72	1.06	3.16	.53	.08	.04	.04	.33	.88
CAL YR 1976 TOTAL	1345009			MEAN 3675	MAX 17200	MIN 182	CFSM 1.32	IN 17.93				
WTR YR 1977 TOTAL	1314261			MEAN 3601	MAX 17200	MIN 55	CFSM 1.29	IN 17.52				

SATILLA RIVER BASIN

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02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to current year.

WATER TEMPERATURES: November 1974 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 105 micromhos July 7, 1977; minimum recorded, 30 micromhos Mar. 16, 1977.

WATER TEMPERATURES: Maximum, 33.5°C July 11-12, 1977; minimum recorded, 5.5°C Jan. 26, Feb. 1.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 105 micromhos July 7; minimum, 30 micromhos Mar. 16.

WATER TEMPERATURES: Maximum, 33.5°C July 11, 12; minimum recorded, 5.5°C Jan. 26, Feb. 1.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
04...	1655	1370	4.3	--	23.0	6.0
NOV						
08...	1530	3240	4.8	12.0	12.6	--
10...	1035	2570	--	--	--	--
DEC						
06...	1330	16500	4.5	13.0	11.0	--
14...	1305	10000	--	--	--	--
JAN						
18...	1115	9240	--	--	--	--
FEB						
24...	1410	1680	--	--	--	--
MAR						
16...	1500	13600	4.6	--	19.5	6.3
APR						
20...	1700	678	6.8	--	22.5	8.0
21...	1355	615	--	--	--	--
MAY						
11...	1020	188	6.6	21.3	24.5	7.9
JUN						
02...	1435	224	--	--	--	--
08...	1400	129	6.6	30.0	28.5	7.1
22...	1430	74	7.0	31.0	31.0	7.0
23...	1325	100	--	--	--	--
JUL						
28...	0900	68	6.6	27.5	28.5	5.1
AUG						
24...	1345	957	4.6	--	27.0	6.2
SEP						
06...	1135	2510	--	--	--	--
07...	1245	2360	4.5	--	26.0	5.6
21...	1430	2490	5.0	--	24.0	5.3

SATILLA RIVER BASIN

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	TURBIDITY (NTU)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (EC BROTH) (MPN)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	HARDNESS (CA, MG/L)	NON-CARBONATE HARDNESS (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)
OCT 04...	43	--	--	--	--	--	12	340	--	--	--
NOV 08...	41	175	5	--	--	--	20	240	8	4	1.7
DEC 06...	39	200	5	--	1.3	91	21	96	8	7	2.0
MAR 16...	32	150	8	--	1.0	230	33	233	6	--	--
APR 20...	47	--	--	12	--	--	12	1480	--	--	--
21...	--	--	--	7.0	--	--	--	--	--	--	--
MAY 11...	51	80	6	8.0	2.8	--	873	810	9	3	1.9
JUN 02...	--	--	--	5.0	--	--	--	--	--	--	--
08...	89	60	8	8.0	2.2	<30	30	300	14	5	2.8
22...	70	65	8	5.0	2.6	40	--	770	15	5	2.4
23...	--	--	--	5.0	--	--	--	--	--	--	--
JUL 28...	81	70	11	5.0	2.4	1500	1800	220	--	--	--
AUG 24...	66	--	5	12	--	--	1100	6300	13	10	2.9
SEP 06...	--	--	--	4.0	--	--	--	--	--	--	--
07...	55	--	4	--	--	--	77	7300	9	9	1.7
21...	48	--	5	--	--	--	93	110	8	5	1.5

DATE	DISSOLVED MAGNESIUM (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
NOV 08...	.7	3.3	1.2	5	0	1	5.7	6.9	.2	7.6	61
DEC 06...	.8	2.6	1.5	2	0	2	7.2	5.4	.2	5.3	56
MAR 16...	--	--	--	--	--	<1	--	--	--	--	--
MAY 11...	1.0	5.9	1.4	7	0	7	4.5	8.8	.0	8.2	55
JUN 08...	1.8	7.7	1.6	11	0	7	9.1	9.6	.1	5.8	64
22...	1.7	7.9	1.7	12	0	10	8.4	11	.1	4.8	51
AUG 24...	1.5	5.4	1.4	4	0	3	14	7.7	.0	9.3	73
SEP 07...	1.1	4.6	1.5	0	0	0	10	7.9	.0	10	84
21...	1.0	4.2	1.3	4	0	3	8.5	7.4	.0	9.1	66

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT 04...	--	.08	--	.70	.78	3.5	.06	22	600	10	37	--
NOV 08...	30	<.02	<.02	.57	.57	2.5	.02	23	44	7	61	--
10...	--	--	--	--	--	--	--	--	--	37	257	--
DEC 06...	26	.00	<.02	.62	.62	2.7	.01	24	0	4	178	--
14...	--	--	--	--	--	--	--	--	--	4	108	--
JAN 18...	--	--	--	--	--	--	--	--	--	5	125	--
FEB 24...	--	--	--	--	--	--	--	--	--	19	86	--
MAR 16...	--	<.02	<.02	--	--	--	.03	16	--	--	--	--
APR 20...	--	.16	--	.91	1.1	4.7	.10	11	--	40	73	70
21...	--	--	--	--	--	--	--	--	--	39	65	--
MAY 11...	35	<.02	<.02	.75	.79	3.5	.13	10	67000	16	8.1	80
JUN 02...	--	--	--	--	--	--	--	--	--	18	11	--
08...	44	<.02	<.02	.73	.74	3.3	.10	12	--	22	7.7	69
22...	44	.00	<.02	.80	.80	3.5	.13	12	56000	11	2.2	100
23...	--	--	--	--	--	--	--	--	--	19	5.1	--
JUL 28...	--	<.02	<.02	.54	.54	2.4	.26	11	47000	20	3.7	88
AUG 24...	44	.11	--	.84	.95	4.2	.13	--	3300	56	145	55
SEP 06...	--	--	--	--	--	--	--	--	--	18	122	--
07...	37	.03	--	.74	.77	3.4	.06	30	69	19	121	72
21...	35	.02	.01	--	--	--	.05	8.5	14	18	121	72

DATE	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
OCT 04...	--	0	1	1	20	8	1	0	1	0	1300
MAR 16...	1	1	1	1	20	0	0	0	4	9	630
APR 20...	1	1	0	0	<10	8	0	0	3	3	1200
JUL 28...	1	1	0	0	20	0	0	0	5	5	1300

DATE	DIS- SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT 04...	610	15	5	40	30	.0	.0	0	0	20	20
MAR 16...	460	45	12	20	20	.0	.0	--	0	10	10
APR 20...	630	17	10	20	20	.0	.0	0	0	10	0
JUL 28...	570	15	3	20	10	.0	.0	0	0	30	10

SATILLA RIVER BASIN

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) • WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	43	40	41	40	41	40	40	37	39	36	42	39
2	43	39	42	40	41	40	39	38	40	35	41	39
3	43	39	41	40	42	40	39	37	39	36	42	37
4	43	40	42	40	43	41	38	36	37	35	39	37
5	42	40	44	40	44	41	36	35	38	35	39	37
6	41	39	43	39	42	40	36	34	39	36	38	36
7	41	40	42	40	41	40	37	34	40	35	39	36
8	43	40	42	40	42	40	38	36	40	37	40	36
9	44	42	43	40	42	40	38	35	40	37	38	34
10	43	41	43	41	41	39	37	35	40	36	37	35
11	43	41	43	40	40	39	37	34	40	35	37	35
12	43	41	42	40	40	38	35	32	40	36	36	34
13	44	41	44	41	41	39	35	32	40	36	36	33
14	43	41	43	42	42	39	34	32	40	35	36	33
15	42	40	43	41	42	38	33	31	40	36	35	31
16	42	40	44	42	41	39	34	31	42	38	33	30
17	41	40	44	42	41	39	35	33	43	39	34	32
18	42	41	43	40	41	39	35	34	42	38	34	31
19	42	39	43	41	41	39	36	33	41	38	34	31
20	40	39	43	42	41	40	36	34	43	39	34	31
21	41	40	44	42	43	40	36	34	42	39	33	31
22	42	40	47	44	43	40	36	34	44	39	34	32
23	43	41	47	45	44	41	36	33	43	39	35	32
24	42	40	47	45	45	41	35	33	42	38	36	33
25	41	39	47	44	43	40	37	34	42	38	36	33
26	41	38	46	44	41	39	38	35	41	38	36	33
27	40	39	44	42	41	39	37	35	40	38	36	33
28	41	40	43	39	40	37	36	34	42	39	36	34
29	42	39	40	38	40	37	39	36	---	---	36	33
30	40	39	41	40	39	37	40	35	---	---	36	33
31	41	40	---	---	38	37	39	37	---	---	38	35
MONTH	44	38	47	38	45	37	40	31	44	35	42	30
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	37	34	51	48	---	---	75	70	84	74	64	59
2	38	35	50	47	---	---	76	74	75	66	61	59
3	38	36	50	48	66	63	82	76	67	61	59	57
4	39	36	51	49	71	69	89	82	78	63	58	56
5	40	37	52	49	77	74	88	84	82	77	58	54
6	42	38	53	49	82	80	101	86	87	81	58	55
7	42	39	53	49	87	85	105	98	89	83	59	55
8	42	38	52	50	91	88	100	82	91	75	58	55
9	42	40	54	52	90	87	81	72	100	83	56	54
10	42	39	54	51	87	84	75	70	102	87	56	52
11	42	39	54	51	85	79	78	73	90	87	54	50
12	42	38	55	52	82	80	81	74	88	84	53	50
13	41	37	57	54	82	79	81	76	85	78	53	50
14	42	37	59	53	80	76	81	76	77	71	52	49
15	42	38	60	56	79	76	83	79	72	70	---	---
16	42	37	59	55	78	74	84	78	71	67	---	---
17	43	37	60	56	77	73	83	80	71	65	---	---
18	44	41	---	---	74	73	83	78	67	65	---	---
19	44	39	---	---	74	70	84	80	67	63	---	---
20	45	42	---	---	72	69	86	82	64	60	---	---
21	46	42	---	---	73	67	86	83	64	62	---	---
22	47	44	---	---	73	69	86	63	63	59	---	---
23	46	45	---	---	72	67	85	80	63	59	49	43
24	46	44	---	---	69	62	84	80	71	64	47	43
25	48	45	---	---	62	59	86	79	74	69	48	41
26	48	44	---	---	66	60	87	80	77	75	47	43
27	49	45	---	---	69	67	84	79	75	72	47	42
28	51	47	---	---	69	67	82	75	73	70	49	42
29	50	47	---	---	72	68	78	72	70	67	49	42
30	48	47	---	---	75	71	80	72	68	66	49	45
31	---	---	---	---	---	---	91	79	67	63	---	---
MONTH	51	34	60	47	91	59	105	63	102	59	64	41

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	25.0	24.5	15.0	14.5	12.5	11.0	8.5	8.0	6.0	5.5	15.0	14.5
2	24.5	23.0	14.5	14.0	11.0	10.5	8.0	8.0	6.0	6.0	14.5	13.5
3	23.5	22.0	14.5	14.0	10.5	10.5	8.5	8.0	6.5	6.0	13.5	13.5
4	23.0	22.0	14.5	14.0	10.5	10.0	9.0	8.5	7.5	6.5	14.5	13.5
5	23.0	22.0	14.0	13.5	10.5	10.5	10.0	9.0	8.5	7.5	15.0	14.5
6	23.0	22.0	13.5	12.5	11.0	10.5	9.5	9.5	8.5	8.5	15.0	15.0
7	23.0	22.5	12.5	12.0	11.5	11.0	9.5	9.0	8.5	8.0	15.5	15.0
8	23.0	23.0	12.5	11.5	11.5	11.5	9.5	9.0	8.0	8.0	15.5	15.0
9	23.0	22.0	12.0	11.0	11.5	10.5	9.5	8.5	8.0	8.0	15.0	15.0
10	22.0	21.0	11.5	10.5	10.5	10.0	8.5	7.5	8.0	7.0	15.0	15.0
11	21.0	20.0	12.5	11.5	11.0	10.5	7.5	7.0	8.0	7.5	15.5	15.0
12	19.5	18.5	13.0	12.5	12.0	11.0	8.0	7.5	9.0	8.0	17.0	15.5
13	18.5	18.0	13.0	12.5	12.5	12.0	8.5	8.0	10.0	9.0	18.0	17.0
14	18.5	17.0	13.0	12.0	12.5	12.0	9.0	8.5	10.0	10.0	19.0	18.0
15	19.0	17.5	12.5	12.0	12.5	12.0	8.5	7.5	10.5	10.0	19.0	19.0
16	19.0	18.0	12.0	12.0	12.5	12.5	---	---	10.5	10.5	19.5	19.0
17	19.0	18.5	12.0	11.5	12.5	12.0	---	---	10.5	10.0	20.0	19.5
18	19.0	18.5	13.0	12.0	12.5	12.0	---	---	10.0	9.5	20.0	20.0
19	18.5	17.5	13.0	12.0	12.5	11.0	---	---	11.5	10.0	20.5	20.0
20	18.5	17.5	13.0	13.0	11.0	9.5	---	---	12.0	11.5	21.0	20.5
21	18.0	17.0	14.0	13.0	9.5	9.0	---	---	12.0	11.5	21.0	21.0
22	17.0	16.0	13.5	12.5	9.0	8.5	---	---	11.5	11.0	21.0	20.5
23	16.0	15.5	12.5	11.5	8.5	8.0	---	---	12.0	11.0	20.5	19.5
24	16.5	15.5	11.0	10.0	9.5	8.5	---	---	13.0	12.0	19.0	18.0
25	17.0	16.5	10.0	9.5	9.5	9.0	---	---	14.0	13.0	18.0	18.0
26	17.0	17.0	10.5	9.5	9.5	9.0	6.0	5.5	14.5	14.0	18.0	18.0
27	17.0	16.5	11.5	10.5	10.0	9.5	6.0	6.0	15.0	14.5	18.0	18.0
28	16.5	15.5	14.5	11.5	10.0	9.5	6.5	6.0	15.0	15.0	18.5	18.0
29	15.5	14.5	15.5	14.5	10.0	9.5	7.0	7.0	---	---	19.5	18.5
30	14.5	14.0	15.0	13.0	10.0	9.5	7.0	6.5	---	---	20.0	19.5
31	15.0	14.5	---	---	9.5	8.5	6.5	6.0	---	---	20.5	20.0
MONTH	25.0	14.0	15.5	9.5	12.5	8.0	10.0	5.5	15.0	5.5	21.0	13.5
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	21.0	20.5	24.5	24.0	29.5	29.0	32.0	30.5	30.0	28.5	26.5	26.5
2	22.0	21.0	25.5	24.5	29.5	28.5	32.0	29.5	30.5	29.5	26.5	26.5
3	23.0	22.0	25.5	25.0	30.0	28.5	30.5	28.5	30.5	29.5	26.5	26.0
4	23.5	23.0	26.0	24.5	30.0	29.5	31.0	29.5	29.5	28.5	26.0	25.5
5	23.5	23.0	26.5	25.5	30.5	29.5	31.5	30.0	29.0	27.5	26.0	26.0
6	23.0	21.5	27.5	26.0	30.5	30.0	32.0	30.5	30.5	28.5	26.0	26.0
7	21.5	20.5	28.0	27.0	30.0	29.5	32.0	31.0	31.0	29.5	26.5	26.0
8	20.5	20.0	28.5	28.0	29.5	28.0	32.0	30.5	31.0	30.0	26.5	26.5
9	20.0	20.0	28.5	27.5	29.0	28.0	33.0	31.5	31.0	30.0	26.5	26.5
10	20.0	19.5	27.5	25.5	29.5	28.0	32.5	31.0	30.5	30.5	27.0	26.5
11	20.0	19.5	25.5	24.5	30.0	28.0	33.5	31.0	30.5	30.0	27.0	27.0
12	20.0	19.5	25.0	24.0	30.0	29.0	33.5	31.5	30.0	29.5	27.0	27.0
13	20.5	20.0	25.5	23.5	30.5	29.0	33.0	31.5	29.5	29.0	27.0	27.0
14	21.0	20.5	26.5	24.0	31.0	30.0	33.0	31.5	29.0	28.5	27.0	27.0
15	21.5	21.0	27.0	25.0	31.5	30.0	33.0	31.5	28.5	28.5	27.0	27.0
16	22.0	21.0	27.5	25.5	31.5	30.5	32.0	31.0	29.5	28.0	27.0	26.5
17	22.5	22.0	27.5	26.0	30.5	29.5	31.0	30.5	29.5	28.5	26.5	26.5
18	22.5	22.5	28.0	26.0	30.5	30.0	30.5	29.5	29.5	28.5	26.5	26.0
19	23.0	22.5	28.0	26.0	31.0	30.0	30.5	29.5	29.0	28.5	26.0	26.0
20	23.0	23.0	28.0	26.0	31.0	30.5	32.0	30.0	28.5	27.5	26.0	25.5
21	23.5	23.0	26.5	25.5	31.0	30.5	32.0	30.5	27.5	27.0	25.5	25.5
22	24.0	23.5	27.5	26.5	31.0	30.5	32.0	31.0	27.0	27.0	26.0	25.5
23	24.0	23.0	27.5	26.0	31.0	29.5	32.0	30.5	27.5	27.0	26.0	26.0
24	24.0	23.0	26.0	25.0	32.0	29.5	30.5	29.5	27.5	26.5	26.0	26.0
25	24.0	23.5	27.5	26.0	32.0	30.0	30.5	29.0	26.5	26.0	26.0	25.5
26	24.0	22.5	27.5	26.5	32.0	30.5	30.5	30.0	26.5	26.5	25.5	25.5
27	23.0	21.5	26.5	25.5	32.5	31.0	30.5	29.5	26.5	26.5	26.0	25.5
28	23.0	21.5	27.0	25.5	32.5	31.5	29.5	28.5	26.5	26.5	26.5	26.0
29	24.0	22.5	28.0	26.0	32.5	31.5	30.5	28.5	26.5	26.5	26.5	26.0
30	24.5	23.5	28.5	27.0	32.0	31.5	30.5	29.5	26.5	26.5	26.0	26.0
31	---	---	29.5	28.5	---	---	29.5	28.5	26.5	26.5	---	---
MONTH	24.5	19.5	29.5	23.5	32.5	28.0	33.5	28.5	31.0	26.0	27.0	25.5

ST. MARYS RIVER BASIN

02228500 NORTH PRONG ST. MARYS RIVER AT MONIAC, GA.

LOCATION.--Lat 30°31'03", long 82°13'50", in NW¼ sec.8, T.1 N., R.21 E., Baker County, Fla.--Charlton County, Ga., Hydrologic Unit 03070204, near right bank at upstream side of bridge on State Highways 2 and 94, 0.2 mi (0.3 km) upstream from Georgia Southern & Florida Railway bridge, 0.4 mi (0.6 km) west of Moniac, 1.0 mi (1.6 km) downstream from Moccasin Creek, and 122 mi (196 km) upstream from mouth of St. Marys River.

DRAINAGE AREA.--160 mi² (410 km²), approximately; includes part of watershed in Okefenokee Swamp, which is indeterminate.

PERIOD OF RECORD.--January 1921 to December 1923 (published as St. Marys River at Moniac), January 1927 to June 1930, July 1932 to June 1934, October 1950 to current year.

REVISED RECORDS.--WSP 1234: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 89.40 ft (27.249 m) above mean sea level. January 1921 to June 1934, nonrecording gage at site 800 ft (240 m) downstream at datum 3.22 ft (0.981 m) higher.

REMARKS.--Records good.

AVERAGE DISCHARGE.--32 years (1922-23, 1928-29, 1933, 1951-77), 164 ft³/s (4.644 m³/s), 13.92 in/yr (354 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,600 ft³/s (329 m³/s) Apr. 5, 1973, gage height, 22.98 ft (7.004 m); no flow for many days in some years; minimum gage height, 3.62 ft (1.103 m) June 6, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,340 ft³/s (37.9 m³/s) Aug. 22, gage height, 12.77 ft (3.892 m); no flow May 20-24, June 16; minimum gage height, 4.22 ft (1.286 m) May 22, 23.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	525	72	1040	467	254	248	58	5.5	2.9	11	162	550
2	436	67	898	412	241	219	54	4.6	12	36	116	450
3	368	63	756	530	272	196	50	4.1	13	58	127	500
4	314	61	633	896	599	187	46	5.0	7.3	57	184	600
5	265	57	528	865	607	386	43	4.7	4.5	45	170	900
6	226	53	448	786	520	491	43	3.6	2.8	35	104	1200
7	198	49	399	733	460	440	39	2.9	2.4	28	69	1100
8	191	46	458	706	412	405	37	2.2	2.5	24	52	1000
9	221	43	481	607	364	353	35	1.8	1.6	19	40	900
10	260	40	422	592	324	323	32	2.7	.96	13	34	700
11	229	39	390	642	288	334	30	2.6	.73	8.9	34	500
12	202	38	409	535	257	323	28	1.8	.55	7.5	35	400
13	178	37	428	460	236	317	27	1.3	.39	5.6	32	320
14	158	35	499	429	217	361	25	.91	.26	4.2	32	250
15	141	38	640	587	198	328	23	.68	.10	2.8	51	203
16	127	40	676	580	180	290	21	.48	.00	1.9	123	169
17	117	56	620	497	163	260	19	.30	.01	2.2	180	164
18	110	157	556	435	149	229	17	.19	.04	8.7	148	347
19	101	198	499	392	138	205	16	.07	.32	11	130	649
20	91	149	452	358	131	185	14	.00	.18	8.5	158	748
21	84	284	427	327	123	169	13	.00	.13	5.0	759	811
22	77	301	380	300	112	153	11	.00	11	2.8	1300	960
23	69	250	339	276	104	135	11	.00	12	1.5	1280	869
24	64	213	308	254	179	118	16	.00	13	1.2	1140	736
25	62	189	278	249	296	107	17	.01	6.6	.81	1050	628
26	82	172	374	246	265	96	13	.74	3.1	.49	1050	529
27	101	361	456	225	239	88	11	5.6	1.5	.50	976	462
28	95	999	403	253	262	80	9.1	4.5	.84	6.5	995	504
29	86	1140	415	286	---	73	7.7	8.3	.51	22	900	437
30	80	1140	412	263	---	68	6.6	7.1	.28	30	733	405
31	76	---	408	246	---	62	---	3.9	---	139	650	---
TOTAL	5334	6427	15432	14434	7590	7229	772.4	75.58	101.50	597.10	12814	17991
MFAN	172	214	498	466	271	233	25.7	2.44	3.38	19.3	413	600
MAX	525	1140	1040	896	607	491	58	8.3	13	139	1300	1200
MTN	62	35	278	225	104	62	6.6	.00	.00	.49	32	164
CFSM	1.08	1.34	3.11	2.91	1.69	1.46	.16	.02	.02	.12	2.58	3.75
IN.	1.24	1.49	3.59	3.36	1.76	1.68	.18	.02	.02	.14	2.98	4.18

CAL YR 1976 TOTAL 56567.00 MEAN 155 MAX 1140 MIN 1.0 CFSM .97 IN 13.15
WTR YR 1977 TOTAL 88797.58 MEAN 243 MAX 1300 MIN .00 CFSM 1.52 IN 20.65

02231000 ST MARYS RIVER NEAR MACCLENNY, FLA.

LOCATION.--Lat 30°21'31", long 82°04'54", in NW¼ sec.2, T.2 S., R.22 E., Baker County, Fla.--Charlton County, Ga., Hydrologic Unit 03070204, on right bank 200 ft (60 m) downstream from site of former Stokes Bridge, 1 mi (2 km) downstream from confluence of North and South Prongs, 6 mi (10 km) northeast of Macclenny, and 100 mi (161 km) upstream from mouth.

DRAINAGE AREA.--700 mi² (1,810 km²), approximately; includes part of watershed in Okefenokee Swamp, which is indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1926 to current year.

REVISED RECORDS.--WSP 1082: 1928(M), 1945(M). WSP 1142: 1928, 1945. WSP 1434: 1927. WSP 1905: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 40.00 ft (12.192 m) above mean sea level (levels by Mees and Mees). Prior to Feb. 21, 1939, nonrecording gage and Feb. 21, 1939 to Aug. 15, 1948, water-stage recorder, at site of former bridge 200 ft (60 m) upstream at same datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--51 years, 681 ft³/s (19.29 m³/s), 13.21 in/yr (336 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,100 ft³/s (796 m³/s) Sept. 25, 1947, maximum gage height, 23.25 ft (7.087 m) Sept. 13, 1964, from floodmark; minimum discharge observed, 12 ft³/s (0.34 m³/s) May 22, 1932; minimum gage height observed, 0.04 ft (0.012 m) June 4, 5, 1927.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (56.6 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. 6	0300	2360	66.8	11.92	3.633	Sept. 7	1200	3290	93.2	13.27	4.045
Feb. 6	0500	2650	75.0	12.42	3.786	Sept. 24	1600	*3350	94.9	13.33	4.063
Aug. 27	1200	2510	71.1	12.19	3.716						

Minimum discharge, 24 ft³/s (0.68 m³/s) July 26, 27; minimum gage height, 1.15 ft (0.351 m) July 27.DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	828	108	1100	1120	643	872	224	48	113	34	326	1400
2	697	103	1060	1170	638	811	205	46	83	32	361	1160
3	591	99	955	1250	664	740	186	45	80	43	271	1010
4	509	94	838	1800	1490	689	172	44	71	92	355	1510
5	439	91	730	2240	2350	956	161	44	61	115	447	2340
6	379	87	640	2360	2630	1430	152	43	49	89	354	2810
7	333	83	577	2200	2400	1540	146	41	45	68	250	3240
8	305	79	578	2040	2160	1470	137	39	43	57	180	2940
9	311	77	656	1930	1940	1360	128	39	41	71	142	2430
10	362	73	672	1790	1710	1240	119	43	38	62	131	1930
11	390	69	615	1730	1540	1210	111	42	35	48	125	1560
12	346	66	579	1710	1390	1230	106	40	32	50	128	1290
13	304	64	588	1570	1250	1180	100	39	29	44	118	1050
14	269	62	662	1430	1090	1150	94	37	28	35	111	853
15	240	64	933	1510	968	1140	88	36	27	30	154	718
16	215	66	1200	1740	866	1050	82	34	26	28	337	617
17	195	78	1270	1750	774	949	77	33	31	29	482	549
18	180	154	1170	1590	696	859	72	32	54	34	459	615
19	171	282	1040	1430	630	776	68	31	55	47	362	1150
20	160	300	941	1300	578	703	65	29	50	62	318	1780
21	145	350	875	1180	538	642	63	29	43	50	631	2190
22	133	460	834	1070	493	591	60	28	36	40	1480	2520
23	123	452	773	974	448	531	58	27	35	33	2100	2860
24	112	393	706	891	504	471	59	27	56	29	2330	3290
25	105	345	650	835	880	419	65	26	64	26	2170	3120
26	104	312	722	801	970	382	66	27	80	24	2290	2620
27	122	293	983	759	887	350	61	30	101	24	2530	2140
28	138	437	1060	722	870	321	56	32	71	28	2390	1890
29	132	816	1020	718	---	294	53	43	52	68	2200	1800
30	122	1040	996	706	---	268	50	109	41	100	1990	1620
31	114	---	999	661	---	244	---	166	---	121	1690	---
TOTAL	8574	6997	26422	42977	31997	25868	3084	1329	1570	1613	27212	55002
MFAN	277	233	852	1386	1143	834	103	42.9	52.3	52.0	878	1833
MAX	828	1040	1270	2360	2630	1540	224	166	113	121	2530	3290
MIN	104	62	577	661	448	244	50	26	26	24	111	549
CFSM	.40	.33	1.22	1.98	1.63	1.19	.15	.06	.08	.07	1.25	2.62
IN.	.46	.37	1.40	2.28	1.70	1.37	.16	.07	.08	.09	1.45	2.92

CAL YR 1976 TOTAL 137499 MEAN 376 MAX 2070 MIN 38 CFSM .54 IN 7.31

WTR YR 1977 TOTAL 232645 MEAN 637 MAX 3290 MIN 24 CFSM .91 IN 12.36

ST. MARYS RIVER BASIN

02231000 ST MARYS RIVER NEAR MACCLENNY, FLA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1965 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1965 to December 1969, January 1974 to current year.

WATER TEMPERATURES: March 1965 to October 1969, October 1970, January 1974 to current year.

REMARKS.--Extremes may have been exceeded during periods of missing record.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT					
14...	1600	260	4.8	17.0	8.3
NOV					
11...	1500	80	5.4	14.0	9.3
DEC					
14...	1400	650	3.4	15.5	9.1
JAN					
24...	1600	885	4.2	7.0	11.6
FEB					
09...	1400	1970	3.4	10.0	10.3
MAR					
23...	1200	500	4.4	20.0	7.4
APR					
26...	1500	70	6.0	24.0	7.9
MAY					
24...	1600	35	6.9	28.0	8.8
JUN					
30...	1730	70	5.3	31.0	7.3
JUL					
19...	1700	50	5.8	29.0	8.2
AUG					
31...	1500	1500	3.8	26.0	5.8

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM .7UM-MF (COL./ 100 ML)	FECAL STREP- TOCOCCI KF AGAR (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)
OCT											
14...	38	3	.8	2	--	--	5	8	7	1.8	.9
NOV											
11...	53	1	--	30	--	--	10	15	5	3.2	1.7
DEC											
14...	42	2	--	20	--	--	150	8	5	1.8	.8
JAN											
24...	48	2	1.0	--	--	--	--	21	21	5.6	1.8
FEB											
09...	40	2	--	90	--	--	50	6	5	1.3	.7
MAR											
23...	40	2	--	--	80	0	--	17	14	4.7	1.3
APR											
26...	58	2	.6	--	40	60	--	25	9	5.2	2.9
MAY											
24...	85	2	--	--	5	0	--	35	4	8.0	3.5
JUN											
30...	--	1	--	0	0	170	170	22	10	5.0	2.2
JUL											
19...	70	2	.3	--	180	30	--	25	3	5.7	2.7
AUG											
31...	48	4	--	--	60	15	--	7	7	1.6	.7

02231000 ST. MARYS RIVER NEAR MACCLENNEY, FLA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT 14...	3.0	.3	2	2	8.1	6.0	.2	3.9	60	26
NOV 11...	3.6	.4	12	10	6.9	6.6	.2	5.6	95	34
DEC 14...	3.5	.2	4	3	--	--	.1	--	--	--
JAN 24...	3.2	.1	0	0	9.1	7.1	.2	5.1	68	33
FEB 09...	3.2	.2	1	1	8.3	6.0	.2	3.4	53	24
MAR 23...	3.6	.3	4	3	7.8	6.9	.0	3.4	73	30
APR 26...	4.1	.6	20	16	5.3	6.0	.0	7.7	65	42
MAY 24...	5.1	.8	37	30	3.4	7.2	.1	2.9	62	49
JUN 30...	5.6	.8	14	11	8.4	7.9	.1	7.5	98	44
JUL 19...	4.6	.7	27	22	3.3	6.7	.0	7.5	60	45
AUG 31...	3.3	.5	0	0	13	7.1	.0	.0	88	26

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL PHYTO- PLANK- TON (CELLS PER ML)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
OCT 14...	.03	.04	.71	.74	3.3	.03	35	70	1	.70
NOV 11...	.07	.04	.49	.56	2.5	.04	--	41	3	.65
DEC 14...	.03	.03	.50	.53	2.3	.02	--	170	55	97
JAN 24...	.02	.03	.43	.45	2.0	.02	25	3	1	2.4
FEB 09...	.02	.03	.39	.41	1.8	.02	--	--	3	16
MAR 23...	.04	.04	.73	.77	3.4	.03	--	--	3	4.0
APR 26...	.10	.06	.54	.64	2.8	.06	10	--	4	.76
MAY 24...	.00	.03	.29	.29	1.3	.05	--	2000	1	.09
JUN 30...	.03	.00	.82	.85	3.8	.09	--	2800	1	.19
JUL 19...	.02	.02	.73	.75	3.3	.06	17	850	3	.40
AUG 31...	--	.06	--	--	--	.03	--	30	8	32

02231000 ST. MARYS RIVER NEAR MACCLENNY, FLA. -- Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)
OCT 14...	0	0	2	2	20	8	0	0	0	0	590
JAN 24...	1	1	1	1	<10	0	0	0	2	2	360
APR 26...	1	0	0	0	10	13	0	0	0	0	440
JUL 19...	2	0	0	3	20	0	0	0	0	0	700

DATE	DIS-SOLVED IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS-SOLVED MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	DIS-SOLVED SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT 14...	600	13	16	10	10	.0	.0	0	0	10	10
JAN 24...	350	14	11	10	10	.1	.1	0	0	10	10
APR 26...	310	25	41	10	20	.0	.0	0	0	10	10
JUL 19...	200	--	43	10	10	.1	.0	0	0	40	40

[illegible]

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

[illegible]

ST. MARYS RIVER BASIN

02231000 ST MARYS RIVER NEAR MACCLENNY, FLA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

Published in Water Resources Data for Florida, Water Year 1977, Volume 1. Northern Florida.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
ONCE-DAILY

Published in Water Resources Data for Florida, Water Year 1977, Volume 1. Northern Florida.

ST. MARYS RIVER BASIN

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02231220 ST. MARYS RIVER AT BOULOGNE, FLA.

LOCATION.--Lat 30°46'35", long 81°58'44", Nassau County, Fla.-Charlton County, Ga., Hydrologic Unit 03070204, at bridge on U.S. Highways 1, 23, and 301, at Boulogne.

DRAINAGE AREA.--1,180 mi² (3,060 km²), approximately; includes part of watershed in Okefenokee Swamp, which is indeterminate.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT 05...	1345	5.0	27.5	22.0	6.2
NOV 03...	1200	6.1	18.0	15.5	7.3
JAN 11...	1400	4.8	1.0	8.0	8.4
FEB 09...	1200	4.9	9.0	7.5	9.6
APR 05...	1330	6.1	22.0	23.0	5.1
MAY 03...	1310	6.7	26.5	25.0	6.2
JUN 14...	1500	7.0	34.5	31.0	6.0
JUL 12...	1445	7.0	35.5	32.5	5.3
AUG 10...	0900	5.1	28.0	29.0	4.9

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)
OCT 05...	41	320	3	.8	<30	6
NOV 03...	53	120	2	.6	2300	18
JAN 11...	47	150	4	1.0	140	9
FEB 09...	40	200	8	.8	230	8
APR 05...	48	260	7	.9	91	15
MAY 03...	83	120	7	.5	64	29
JUN 14...	95	100	18	1.8	90	19
JUL 12...	96	100	10	--	70	--
AUG 10...	57	260	8	1.8	40	--

ST. MARYS RIVER BASIN

02231220 ST. MARYS RIVER AT BOULOGNE, FLA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TANNIN AND LIGNIN (MG/L)
OCT							
05...	0	6.0	<.02	.02	.04	34	6.4
NOV							
03...	9	8.0	.04	.05	<.02	25	2.8
JAN							
11...	1	7.3	<.02	<.02	<.02	26	2.1
FEB							
09...	1	5.5	<.02	<.02	.02	23	4.4
APR							
05...	8	7.0	.04	.04	.03	26	4.6
MAY							
03...	22	8.0	.08	.03	.05	16	3.6
JUN							
14...	18	8.5	<.02	<.02	.04	15	2.8
JUL							
12...	--	--	<.02	<.02	.09	19	2.5
AUG							
10...	--	--	<.02	.03	.06	31	5.0

02314500 SUWANNEE RIVER AT FARGO, GA.

LOCATION.--Lat 30°40'50", long 82°33'38", Clinch County, Hydrologic Unit, 03110201, on downstream side of right bank pier of bridge on U.S. Highway 441 at Fargo, 4 mi (6.4 km) upstream from Suwannee Creek, and 12 mi (19 km) downstream from Mixons Ferry damsite.

DRAINAGE AREA.--About 1,260 mi² (3,260 km²), includes part of watershed in Okefenokee Swamp, which is indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1921 to September 1923 (gage heights only), January 1927 to December 1931, April 1937 to current year
Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 1234: Drainage area. WSP 1504: 1928-30.

GAGE.--Water-stage recorder. Datum of gage is 91.90 ft (28.01 m) above mean sea level. Jan. 27, 1921 to Sept. 30, 1923, nonrecording gage at site 1,200 ft (366 m) upstream at datum 3.00 ft (0.914 m) higher. Jan. 27, 1927 to Dec. 31, 1931 and Apr. 20 1937 to June 10, 1938, nonrecording gage at site 1,000 ft (305 m) upstream at datum 1.00 ft (0.305 m) higher, June 11, 1938 to Nov. 26, 1952, nonrecording gage at site 1,000 ft (0.305 m) upstream at present datum. Oct. 14, 1960 to Oct. 29, 1970, auxiliary water-stage recorder at site about 3 mi (4.8 km) upstream and since Nov. 5, 1971, auxiliary water-stage recorder at site about 2 mi (3.2 km) upstream.

REMARKS.--Records good. Natural flow from July 14 to Aug. 15 affected by a break in Mixons Ferry Dam, closure of break, and subsequent return to normal pool elevation.

AVERAGE DISCHARGE.--44 years (1927-31, 1937-77), 1,113 ft³/s (31.5 m³/s), 12.00 in/yr (304.8 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,800 ft³/s (391 m³/s) Oct. 1, 5, 6, 1928; maximum gage height, 21.01 ft (6.404 m) Apr. 9, 1973; no flow at times in 1931, 1943, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,180 ft³/s (20.3 m³/s) Dec. 17; maximum gage height, 15.43 ft (4.703 m) Dec. 16; minimum discharge, 3.9 ft³/s (0.110 m³/s) Aug. 8.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1560	811	6770	4440	2360	1360	1600	238	40	24	5.4	332
2	1530	793	7010	4270	2300	1340	1540	220	44	42	5.3	306
3	1470	775	7060	4330	2260	1300	1480	206	51	60	7.1	303
4	1370	755	7000	4590	2270	1300	1400	201	60	61	6.6	354
5	1260	734	6900	4770	2260	1490	1300	202	50	83	5.1	388
6	1140	711	6820	4850	2240	1650	1200	191	41	115	4.5	377
7	1020	688	6760	4870	2200	1740	1120	178	36	103	4.2	335
8	950	662	6800	4870	2150	1840	1020	166	35	99	4.0	228
9	1120	634	6810	4880	2110	1900	922	156	30	92	4.2	219
10	1270	608	6760	4890	2050	1940	842	149	25	81	4.4	225
11	1310	582	6780	4860	2010	1980	760	139	21	73	4.8	224
12	1260	561	6840	4780	1960	2020	698	127	19	66	4.8	221
13	1180	542	6900	4660	1920	2090	640	116	17	55	5.3	218
14	1070	529	6980	4550	1880	2160	582	107	15	198	7.7	211
15	992	523	7100	4510	1830	2210	536	97	14	473	40	203
16	925	517	7150	4450	1780	2240	492	88	14	522	68	199
17	865	545	7160	4350	1730	2250	456	80	12	202	80	196
18	810	658	7120	4190	1680	2250	417	72	12	35	76	212
19	760	693	7000	4000	1640	2240	380	65	15	17	58	236
20	902	742	6830	3790	1590	2220	348	59	13	14	98	324
21	960	889	6650	3600	1530	2200	322	54	12	11	166	405
22	940	943	6400	3410	1480	2130	298	49	13	9.2	184	416
23	892	959	6140	3260	1410	2080	281	44	15	7.8	195	409
24	860	947	5850	3100	1400	2050	325	39	31	6.7	224	406
25	800	925	5550	2980	1420	1960	369	35	34	6.0	348	403
26	862	907	5400	2850	1410	1920	345	32	32	5.5	441	401
27	899	1320	5260	2750	1400	1880	316	36	27	5.1	456	406
28	894	2510	5100	2660	1390	1830	292	34	23	4.9	462	401
29	872	4560	4960	2580	---	1770	274	40	20	4.7	434	381
30	848	6100	4750	2500	---	1710	257	53	18	4.7	400	364
31	829	---	4590	2430	---	1650	---	49	---	5.4	367	---
TOTAL	32420	33123	199200	123020	51660	58720	20812	3322	789	2486.0	4170.4	9303
MEAN	1046	1104	6426	3968	1845	1894	694	107	26.3	80.2	135	310
MAX	1560	6100	7160	4890	2360	2250	1600	238	60	522	462	416
MIN	760	517	4590	2430	1390	1300	257	32	12	4.7	4.0	196
CFSM	.83	.88	5.10	3.15	1.46	1.50	.55	.09	.02	.06	.11	.25
IN.	.96	.98	5.88	3.63	1.53	1.73	.61	.10	.02	.07	.12	.27
CAL YR 1976	TOTAL	520807.0	MEAN	1423	MAX	7160	MIN	111	CFSM	1.13	IN	15.38
WTR YR 1977	TOTAL	539025.4	MEAN	1477	MAX	7160	MIN	4.0	CFSM	1.17	IN	15.91

SUWANNEE RIVER BASIN

02314500 SUWANNEE RIVER AT FARGO, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV 03...	1345	773	4.2	20.0	14.5	7.7
FEB 09...	1430	2100	4.6	8.0	7.0	10.6
MAY 03...	1450	204	4.5	31.0	25.0	6.7
JUL 13...	0930	54	4.4	29.0	29.0	5.8
AUG 10...	1100	4.4	6.0	31.0	29.0	5.5

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	RIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)
NOV 03...	46	200	2	7.6	<30	4
FEB 09...	36	200	3	.3	<30	3
MAY 03...	42	210	5	.8	<30	4
JUL 13...	49	240	6	.6	40	--
AUG 10...	52	160	8	1.8	90	--

DATE	ALKA- LITY AS CaCO3 (MG/L)	TOTAL NON- FILT- PABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 03...	0	--	<.02	.02	.02	31
FEB 09...	--	--	<.02	<.02	<.02	25
MAY 03...	--	--	<.02	.03	.03	26
JUL 13...	--	6	<.02	.03	.06	30
AUG 10...	--	3	<.02	<.02	.06	23

02316000 ALAPAHA RIVER NEAR ALAPAHA, GA.

LOCATION.--Lat 31°23'03", long 83°11'33", Berrien County, Hydrologic Unit 03110202, near right bank on downstream side of bridge on State Highway 50, 2 mi (3.2 km) east of Alapaha, and 6 mi (9.7 km) upstream from Willacoochee River.

DRAINAGE AREA.--663 mi² (1,720 km²).

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)								
SEP 07...	1410	127	25.0	5.4								
DATE	COLOR (PLAT- INUM- COBALT UNITS)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LILITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
SEP 07...	150	10	6	2.2	1.2	3.1	1.7	5	0	4	3.8	6.5
DATE	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (NO3) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)
SEP 07...	.0	11	43	34	14.7	.05	.22	.00	.00	.01	.05	.01
DATE	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SUS- PENDED KJEL. NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)
SEP 07...	.21	.27	.78	.79	.00	.80	3.5	.05	.02	.01	.01	.03
DATE	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED MERCURY (MG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	
SEP 07...	190	0	0	0	8	760	0	80	<.5	0	20	

02317500 ALAPAHA RIVER AT STATENVILLE, GA.

LOCATION.--Lat 30°42'14", long 83°02'00", Echols County, Hydrologic Unit 03110202, at downstream side of left bank pier of bridge on State Highway 94, 0.2 mi (0.3 km) west of Statenville.

DRAINAGE AREA.--1,400 mi² (3,630 km²), approximately.

PERIOD OF RECORD.--January to June 1921, October 1931 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 822: 1936, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 76.77 ft (23.40 m) above mean sea level (levels by Georgia Department of Transportation). Jan. 28 to June 30, 1921, nonrecording gage at site 50 ft (15 m) upstream at datum 2.10 ft (0.64 m) higher. Dec. 10, 1931 to Nov. 30, 1949, nonrecording gage at site 200 ft (61 m) upstream at present datum, and Dec. 1, 1949 to Nov. 22, 1952, nonrecording gage at same site and datum.

REMARKS.--Records good. Records of chemical analyses for the water years 1968-74 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--46 years (1931-77), 1,043 ft³/s (29.5 m³/s), 10.12 in/yr (257.0 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,300 ft³/s (773 m³/s) Apr. 6, 1948, gage height, 29.8 ft (9.08 m), from graph based on gage readings; minimum, 16 ft³/s (0.45 m³/s) Nov. 13, 14, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1862, that of Apr. 6, 1948, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,500 ft³/s (212 m³/s) Mar. 18, gage height, 24.9 ft (7.590 m); minimum, 49 ft³/s (1.39 m³/s) July 26, 27.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	279	798	4940	3340	2690	1790	1790	230	80	85	92	842
2	326	807	4800	3240	2470	1840	1700	218	92	87	75	635
3	300	846	4500	3410	2290	1870	1670	204	75	88	68	489
4	264	862	4120	3880	2230	1950	1700	190	68	88	62	427
5	240	834	3810	4130	2160	2300	1770	180	66	83	72	378
6	220	762	3680	4390	2080	2660	1790	167	63	72	91	364
7	204	683	3750	4680	2000	3030	1790	159	68	68	296	330
8	217	620	4050	4870	1920	3450	1800	149	66	63	326	400
9	316	565	4320	4940	1840	3850	1760	143	60	104	318	487
10	386	517	4630	4940	1770	4160	1630	135	58	148	328	542
11	466	481	5070	4900	1680	4420	1480	125	56	151	326	577
12	468	448	5580	4850	1610	4590	1340	120	52	141	312	567
13	408	418	5890	4800	1540	4840	1210	112	52	143	270	567
14	351	397	6060	4780	1470	5150	1080	108	51	130	230	572
15	307	396	6130	4840	1380	5640	970	103	52	114	214	547
16	274	396	6040	4780	1300	6240	870	100	50	102	196	503
17	358	436	5810	4650	1210	6780	792	94	66	100	178	457
18	505	596	5460	4470	1140	7350	717	91	58	92	173	448
19	671	702	5030	4250	1080	7350	642	87	53	87	184	406
20	854	853	4640	4010	1020	6860	565	84	53	76	216	376
21	931	1020	4370	3780	958	6560	496	81	53	69	304	380
22	918	1030	4220	3620	912	6360	438	80	53	66	358	441
23	920	992	4090	3540	900	6130	412	77	53	64	412	471
24	936	944	3940	3520	980	5780	398	76	53	58	498	457
25	938	876	3740	3520	1120	5080	364	76	56	52	682	438
26	1040	825	3700	3480	1240	3990	330	81	56	51	870	400
27	1110	1130	3730	3410	1370	3050	302	80	54	49	955	352
28	1100	3820	3720	3350	1640	2590	280	75	54	49	895	316
29	1040	4650	3690	3260	---	2330	264	74	53	51	850	286
30	951	4910	3590	3100	---	2120	246	71	64	108	887	270
31	857	---	3450	2890	---	1940	---	72	---	128	915	---
TOTAL	18155	32614	140550	125620	44000	132050	30596	3642	1788	2767	11653	13725
MFAN	586	1087	4534	4052	1571	4260	1020	117	59.6	89.3	376	458
MAX	1110	4910	6130	4940	2690	7350	1800	230	92	151	955	842
MIN	204	396	3450	2890	900	1790	246	71	50	49	62	270
CFSM	.42	.78	3.24	2.89	1.12	3.04	.73	.08	.04	.06	.27	.33
IN.	.48	.87	3.73	3.34	1.17	3.51	.81	.10	.05	.07	.31	.36
CAL YR 1976	TOTAL	505621	MEAN	1381	MAX	6420	MIN	126	CFSM	.99	IN	13.44
WTR YR 1977	TOTAL	557160	MEAN	1526	MAX	7350	MIN	49	CFSM	1.09	IN	14.80

02317748 WITHLACOOCHIE RIVER NEAR BEMISS, GA.

LOCATION.--Lat 30°57'24", long 83°16'12", Lowndes County, Hydrologic Unit 03110203, on downstream side of county bridge on Skipper Bridge Road, 1.9 mi (3.1 km) downstream from Cat Creek, and 3.0 mi (4.8 km) northwest of Bemiss.

DRAINAGE AREA.--501 mi² (1,300 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 130 ft (39.624 m), from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,810 ft³/s (136 m³/s) Dec. 2, 1976, gage height, 18.34 ft (5.590 m); minimum discharge, 4.9 ft³/s (0.14 m³/s) July 1, 27, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,810 ft³/s (136 m³/s) Dec. 2, gage height, 18.34 ft (5.590 m); minimum discharge, 4.9 ft³/s (0.14 m³/s) July 1, 27.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	424	4600	1720	696	1070	244	34	19	6.6	387	152
2	---	372	4520	1540	641	1150	226	32	45	147	217	134
3	---	317	3880	1570	598	1100	265	29	63	46	106	146
4	---	276	3160	2350	618	1040	316	26	54	22	129	94
5	---	242	2470	3120	607	1300	330	23	48	16	257	83
6	---	224	1880	3780	569	1780	335	21	46	16	244	94
7	---	207	1480	3690	540	2560	295	19	39	20	211	92
8	---	175	1410	3320	518	3660	265	17	27	25	201	107
9	---	156	1540	2790	499	4440	230	15	21	23	161	105
10	---	142	1520	2290	470	4390	197	14	17	20	119	96
11	---	135	1480	1880	431	3910	170	13	15	21	92	96
12	---	129	1620	1650	388	3210	147	12	13	22	75	95
13	314	122	1890	1460	359	3240	130	10	11	18	62	85
14	257	127	2040	1320	341	3330	114	9.4	9.8	12	93	78
15	224	173	1990	1330	321	2580	100	8.4	8.8	11	73	80
16	202	189	2150	1330	304	2160	82	9.2	8.3	10	74	98
17	220	234	2450	1320	287	1890	73	9.4	8.2	8.5	90	86
18	234	362	2410	1310	274	1620	78	9.1	6.7	8.2	116	70
19	280	461	2110	1320	265	1360	71	8.8	6.4	9.9	148	99
20	440	589	1760	1300	257	1100	55	9.0	6.3	8.7	141	118
21	594	679	1480	1190	249	940	47	8.9	6.1	7.4	228	143
22	668	699	1250	1010	240	760	41	8.7	6.6	6.5	183	135
23	718	679	1070	815	234	640	42	8.8	9.6	6.0	155	108
24	743	634	912	706	317	530	55	9.4	12	5.7	179	89
25	722	587	791	675	501	450	65	10	13	5.5	252	78
26	785	541	951	654	606	393	69	17	7.9	5.2	229	69
27	778	669	1170	653	721	396	62	17	6.2	6.6	228	63
28	684	1050	1290	711	910	398	52	16	6.0	33	222	70
29	576	1700	1440	754	---	358	43	12	5.6	149	225	64
30	511	2800	1620	756	---	303	38	12	5.0	73	256	50
31	468	---	1740	737	---	270	---	11	---	35	219	---
TOTAL	---	15094	60074	49051	12761	52328	4237	459.1	550.5	803.8	5372	2877
MEAN	---	503	1938	1582	456	1688	141	14.8	18.4	25.9	173	95.9
MAX	---	2800	4600	3780	910	4440	335	34	63	149	387	152
MIN	---	122	791	653	234	270	38	8.4	5.0	5.2	62	50

SUWANNEE RIVER BASIN

02317749 WITHLACOCHEE RIVER ABOVE VALDOSTA, GA.

LOCATION.--Lat 30°55'57", long 83°17'22", Lowndes County, Hydrologic Unit 03110203, at county highway bridge, 1.5 mi (2.4 km) upstream from Bay Branch, and 7 mi (11 km) north of Valdosta.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT 06...	0730	81	6.7	18.0	19.0	6.2
NOV 08...	0935	169	6.0	9.0	9.0	9.4
DEC 08...	0815	1400	5.2	4.0	9.0	8.4
JAN 17...	0900	1330	5.5	-9.0	6.0	10.0
FEB 14...	0830	342	5.8	3.0	9.0	9.0
MAR 09...	0900	2450	5.4	9.0	12.0	9.0
APR 06...	0800	352	6.7	10.0	18.0	7.2
MAY 04...	1030	29	6.8	26.5	23.0	7.0
JUN 15...	1015	7.4	6.8	29.0	26.0	5.0
JUL 13...	0715	15	6.7	21.0	25.5	6.0
AUG 15...	1100	60	6.1	29.0	25.5	6.1
SEP 13...	0700	98	6.7	21.0	24.5	5.7

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA,MG) (MG/L)	ALKA- LITY AS CAC03 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 06...	82	100	3	.8	150	22	14	.16	.13	.43	22
NOV 08...	66	--	--	--	--	15	--	.10	<.02	.23	14
DEC 08...	43	100	7	1.0	1500	10	3	<.02	<.02	.09	16
JAN 17...	43	100	7	.7	430	9	4	.10	<.02	.06	13
FEB 14...	53	60	8	.8	63	10	7	.16	.02	.10	10
MAR 09...	33	120	12	1.3	930	6	3	<.02	<.02	.09	14
APR 06...	50	135	13	1.8	430	12	7	.18	.08	.20	16
MAY 04...	83	80	10	2.6	36	22	15	.18	<.02	.51	11
JUN 15...	108	60	5	.5	30	28	15	.33	<.02	.48	12
JUL 13...	242	80	8	1.8	40	--	--	.73	.16	.75	14
AUG 15...	77	160	10	1.4	150	--	--	.21	.02	.26	16
SEP 13...	101	120	10	--	--	--	--	.14	<.02	.39	3.0

02317755 WITHLACOCHEE RIVER AT U.S. 41, NEAR VALDOSTA, GA.

LOCATION.--Lat 30°53'33", long 83°19'08", Lowndes County, Hydrologic Unit 03110203, on downstream side of bridge on U.S. Highway 41, 1.1 mi (1.8 km) downstream from Cherry Creek, 4.0 mi (6.4 km) upstream from Sugar Creek, and 5.3 mi (8.5 km) north of Valdosta.

DRAINAGE AREA.--537 mi² (1,390 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 120 ft (36.576 m), from topographic map.

REMARKS.--Records good except those below 20 ft³/s (0.57 m³/s), which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,390 ft³/s (153 m³/s) Dec. 2, 1976, gage height, 16.32 ft (4.974 m); no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,390 ft³/s (153 m³/s) Dec. 2, gage height, 16.32 ft (4.974 m); minimum discharge, no flow on many days.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	402	4870	1810	730	1080	215	.00	2.5	.00	110	138
2	---	356	5330	1740	669	1160	187	.00	.65	55	253	89
3	---	308	4700	1770	616	1190	191	.00	.40	44	102	119
4	---	256	3720	2240	632	1160	248	.00	.29	8.9	54	81
5	---	216	2850	2790	637	1390	279	.00	.25	2.5	134	55
6	---	179	2150	3620	595	1650	301	.00	.16	1.1	199	58
7	---	170	1710	4170	548	2660	269	.00	.29	2.7	155	59
8	---	134	1520	3860	513	3460	232	.00	.20	.52	141	70
9	---	111	1510	3290	488	4480	195	.01	.07	.34	120	68
10	---	93	1540	2760	463	4990	155	.01	.03	.19	89	56
11	---	82	1540	2260	428	4660	126	.00	.01	.14	57	49
12	---	75	1620	1880	383	3950	102	.00	.00	.10	31	48
13	---	68	1850	1650	349	4010	83	.00	.00	.22	19	42
14	---	65	2120	1510	333	4080	68	.00	.00	.22	23	33
15	---	95	2200	1490	309	3280	56	.00	.00	.04	31	27
16	---	124	2190	1470	283	2570	40	.00	.00	.02	23	42
17	---	156	2360	1440	259	2160	27	.00	.00	.06	26	46
18	---	286	2570	1410	242	1870	25	.00	.00	.13	36	33
19	---	364	2430	1400	230	1600	26	.00	.00	.09	74	31
20	281	472	2100	1400	219	1340	14	.00	.00	.05	95	53
21	415	600	1780	1350	208	1040	1.1	.00	.00	.01	142	72
22	529	643	1510	1200	197	775	.00	.00	.03	.10	148	84
23	598	640	1290	986	187	604	3.6	.00	3.1	15	111	66
24	642	608	1080	797	246	495	14	.00	14	3.9	104	44
25	660	562	905	717	434	429	16	.01	.44	.45	175	29
26	713	514	1010	675	532	383	20	4.1	.00	.10	183	21
27	746	638	1220	650	666	364	19	16	.00	1.1	175	13
28	696	1380	1330	702	966	365	8.0	37	.00	7.4	179	7.7
29	590	2460	1430	775	---	349	.07	12	.00	12	169	17
30	501	3740	1550	782	---	297	.00	5.4	.00	68	191	10
31	447	---	1730	766	---	246	---	2.1	---	19	195	---
TOTAL	---	15797	65715	53360	12362	58087	2920.77	76.63	22.42	243.38	3544	1560.7
MEAN	---	527	2120	1721	442	1874	97.4	2.47	.75	7.85	114	52.0
MAX	---	3740	5330	4170	966	4990	301	37	14	68	253	138
MIN	---	65	905	650	187	246	.00	.00	.00	.00	19	7.7

SUWANNEE RIVER BASIN

02317757 WITHLACOOCHEE RIVER NEAR VALDOSTA, GA.

LOCATION.--Lat 30°51'00", long 83°20'23", Lowndes County, Hydrologic Unit 03110203, at bridge on State Highway 94, 0.8 mi (1.3 km) upstream from Little River, and 4 mi (6 km) northwest of Valdosta.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT 06...	0900	32	6.9	20.0	20.0	4.4
NOV 08...	1045	137	6.3	11.5	9.5	8.8
DEC 07...	1515	2140	5.3	17.0	9.0	9.0
JAN 17...	1015	1330	5.6	-9.0	6.0	11.0
FEB 14...	0930	373	6.2	6.0	9.0	9.6
MAR 14...	1600	4400	5.6	26.5	17.0	6.0
APR 06...	1000	346	6.1	14.0	18.5	7.7
MAY 04...	1205	16	7.0	30.5	24.0	2.0
JUN 15...	1100	5.8	6.8	33.0	26.0	.1
JUL 13...	0630	9.6	6.9	20.0	25.0	.3
AUG 10...	1325	90	6.5	35.0	27.0	5.5
SEP 13...	0815	50	6.6	24.5	24.5	3.0

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 06...	173	80	6	7.7	230	34	36	.21	2.9	1.8	19
NOV 08...	72	--	--	--	--	16	--	.12	.32	.37	17
DEC 07...	46	120	6	1.0	230	10	3	<.02	.06	.10	19
JAN 17...	45	110	6	1.1	161	7	4	.11	.05	.09	13
FEB 14...	60	60	8	2.0	91	12	7	.17	.20	.19	9.0
MAR 14...	35	160	25	1.4	2300	8	4	.11	.03	.11	17
APR 06...	60	120	14	2.3	750	13	9	.20	.24	.31	17
MAY 04...	345	35	19	>6.8	23000	63	87	<.02	8.6	4.1	11
JUN 15...	433	45	20	26	86500	80	119	<.02	10	5.3	35
JUL 13...	389	35	25	14	43000	--	--	<.02	11	10	19
AUG 10...	113	80	11	4.2	230	--	--	.15	.74	.70	21
SEP 13...	144	120	12	--	--	--	--	.15	1.4	1.1	10

02317830 LITTLE RIVER NEAR LENOX, GA.

LOCATION.--Lat 31°15'15", long 83°30'32", Cook-Colquitt County line, Hydrologic Unit 03110204, near left bank of downstream side of county bridge on Kinard Bridge Road, 2.0 mi (3.2 km) upstream from Warrior Creek, and 2.5 mi (4.0 km) west of Lenox.

DRAINAGE AREA.--208 mi² (539 km²), approximately.

PERIOD OF RECORD.--May 1967 to September 1971, water years 1972-76 (annual maximum), October 1976 to current year.

GAGE.--Water-stage recorder. Datum of gage is 196.68 ft (59.948 m) above mean sea level (levels by Georgia Department of Transportation). October 1971 to September 1976, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for periods of no gage-height record, Oct. 1-27, Nov. 27 to Dec. 2, and Feb. 15-28, which are poor.

AVERAGE DISCHARGE.--5 years (water years 1968-71, 1977), 174 ft³/s (4.93 m³/s), 11.36 in/yr (288.5 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 14.05 ft (4.282 m) April 6, 1973 (discharge not determined); minimum daily discharge, 0.09 ft³/s (0.003 m³/s) Oct. 27, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,330 ft³/s (66.0 m³/s) Mar. 8, gage height, 12.32 ft (3.755 m); minimum daily discharge, 0.24 ft³/s (0.007 m³/s) July 26.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	121	920	586	340	545	199	23	10	1.9	8.7	266
2	100	111	1120	528	313	486	272	18	6.6	1.8	8.4	241
3	96	99	950	596	291	425	350	14	8.0	4.1	7.4	188
4	68	85	793	825	291	453	315	11	32	40	7.4	155
5	56	71	628	874	293	809	297	9.0	22	32	9.6	135
6	46	62	496	925	293	806	308	7.7	11	16	12	146
7	41	55	453	1120	292	1220	262	6.6	7.7	9.9	15	135
8	40	46	566	1010	279	2120	201	5.8	5.8	6.8	27	337
9	62	36	622	819	270	2010	169	5.0	4.5	5.0	19	692
10	100	29	570	698	255	1760	161	4.2	3.6	3.9	12	662
11	150	24	534	670	229	1280	169	3.6	3.2	2.4	8.4	502
12	140	22	612	654	205	926	155	2.8	2.5	1.4	6.2	401
13	110	20	802	585	188	823	126	2.4	2.5	1.2	4.9	343
14	85	20	764	548	177	857	95	2.1	2.0	.56	4.0	273
15	70	24	705	673	168	1290	72	2.3	1.8	.68	3.9	207
16	56	29	704	743	158	1290	56	2.5	2.1	.60	4.1	168
17	58	47	669	753	148	900	45	2.0	2.0	.53	17	147
18	70	110	611	845	140	682	37	1.1	1.0	.72	23	177
19	90	147	536	845	132	524	31	1.2	1.0	1.1	16	201
20	140	170	484	708	124	415	26	1.2	1.0	1.8	40	181
21	250	202	441	556	118	341	23	1.3	1.3	1.5	137	181
22	300	251	397	451	130	324	19	1.2	1.2	1.8	298	170
23	280	260	344	378	166	346	17	1.5	.94	.64	286	286
24	270	255	312	349	220	361	16	2.1	3.8	.62	184	338
25	340	233	304	364	300	346	21	2.0	37	.70	147	255
26	370	243	472	367	400	352	18	2.7	35	.24	139	179
27	370	310	631	364	460	392	15	3.8	14	.35	118	135
28	240	400	579	396	526	352	13	4.8	8.1	.69	94	103
29	180	500	533	429	---	280	13	5.0	4.8	.77	157	78
30	144	640	539	430	---	223	20	12	2.8	.53	184	61
31	130	---	594	388	---	198	---	22	---	3.7	219	---
TOTAL	4532	4622	18685	19477	6906	23136	3521	183.9	239.24	143.93	2217.0	7343
MEAN	146	154	603	628	247	746	117	5.93	7.97	4.64	71.5	245
MAX	370	640	1120	1120	526	2120	350	23	37	40	298	692
MIN	40	20	304	349	118	198	13	1.1	.94	.24	3.9	61
CFSM	.70	.74	2.90	3.02	1.19	3.59	.56	.03	.04	.02	.34	1.18
IN.	.81	.83	3.34	3.48	1.24	4.14	.63	.03	.04	.03	.40	1.31

WTR YR 1977 TOTAL 91006.07 MEAN 249 MAX 2120 MIN .24 CFSM 1.20 IN 16.28

SUWANNEE RIVER BASIN

02318500 WITHLACOOCHEE RIVER NEAR QUITMAN, GA.

LOCATION.--Lat 30°47'35", long 83°27'13", Brooks-Lowndes County line, Hydrologic Unit 03110203, at bridge on U.S. Highway 84, 4 mi (6.4 km) upstream from Piscola Creek, 6 mi (9.6 km) east of Quitman, and 9 mi (14.5 km) downstream from Little River.

DRAINAGE AREA.--1480 mi² (3830 km²).

PERIOD OF RECORD.--July 1977 to September 1977.

REMARKS.--Laboratory chemical analyses by Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
JUL 13...	1300	195	5.4	31.0	28.5	7.5
AUG 15...	1000	340	6.5	26.0	26.0	3.8
SEP 12...	1600	570	7.0	32.0	27.0	5.2

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)
JUL 13...	144	76	9	2.7
AUG 15...	117	80	10	2.4
SEP 12...	127	--	16	1.4

DATE	FECAL COLI- FORM (EC BROTH) (MPN)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JUL 13...	40	1.0	.09	.65	13
AUG 15...	<30	.71	.83	.73	9.0
SEP 12...	90	.17	.05	.24	20

02318725 OKAPILCO CREEK NEAR QUITMAN, GA.

LOCATION.--Lat 30°47'10", long 83°31'33", Brooks County, Hydrologic Unit 03110203, at U.S. Highways 84 and 221, 1.8 mi (2.9 km) east of Quitman.

DRAINAGE AREA.--278 mi² (720 km²), approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
06...	1200	19	6.4	25.5	18.5	6.7
NOV						
08...	1300	62	6.5	12.0	9.0	9.8
DEC						
08...	1015	632	6.1	5.0	9.0	10.0
JAN						
17...	1230	800	6.0	-4.0	5.0	11.4
FEB						
14...	1200	168	6.4	12.0	9.0	8.9
MAR						
09...	0930	2180	6.6	14.0	11.0	8.6
APR						
06...	1230	110	6.6	16.0	18.0	6.8
MAY						
04...	0800	9.6	6.7	22.0	21.0	4.6
JUN						
15...	1235	1.8	7.3	32.5	27.5	3.4
JUL						
13...	1400	2.9	7.4	35.0	28.5	4.3
AUG						
15...	0930	3.9	6.8	29.0	25.0	3.7
SEP						
12...	1530	4.6	7.2	32.0	25.0	3.4

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBAL T UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA,MG) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT											
06...	101	100	8	1.9	1500	21	9	.14	.26	.45	16
NOV											
08...	71	--	--	--	--	15	--	.16	.06	.14	10
DEC											
08...	57	90	12	1.2	4300	13	4	.11	.04	.09	10
JAN											
17...	48	80	14	.9	2300	10	6	.19	.02	.08	9.0
FEB											
14...	62	40	9	1.2	150	14	5	.29	.03	.11	6.0
MAR											
09...	72	110	25	2.5	7500	16	13	.26	.25	.41	5.0
APR											
06...	93	80	18	2.0	930	18	9	.48	.64	.37	12
MAY											
04...	102	90	17	3.2	4300	22	18	.43	.28	.46	11
JUN											
15...	415	70	20	>7.1	40	78	121	.13	4.7	4.5	19
JUL											
13...	422	60	18	>7.3	430	--	--	.19	6.6	4.5	27
AUG											
15...	153	80	16	2.4	4300	--	--	1.0	1.9	1.1	11
SEP											
12...	161	65	15	3.3	4300	--	--	.54	.39	.99	13

02318960 WITHLACOCHEE RIVER NEAR CLYATTSVILLE, GA.

LOCATION.--Lat 30°38'07", long 83°18'41", Lowndes County, Hydrologic Unit 03110203, at bridge on State Highway 31, 4.3 mi (6.9 km) south of Clyattsville.

DRAINAGE AREA.--1,490 mi² (3,860 km²), approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT 06...	1030	747	7.2	22.5	21.0	5.7
NOV 08...	1145	215	6.5	11.0	11.0	7.7
DEC 07...	1415	9400	5.4	16.0	9.5	9.4
JAN 17...	1130	7480	6.2	-8.0	6.0	11.0
FEB 14...	1100	1960	6.9	8.0	9.0	9.4
MAR 14...	1445	--	5.6	26.5	17.0	6.4
APR 06...	1115	2130	6.7	15.0	19.0	7.2
MAY 04...	0915	356	7.5	24.5	22.0	5.8
JUN 15...	1145	114	7.9	33.0	25.0	4.0
JUL 13...	1145	141	7.6	33.0	29.0	5.6
AUG 10...	1205	240	7.3	31.0	27.0	4.1
SEP 13...	0930	608	7.0	29.0	26.0	5.1

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INIM- CORALY UNITS)	TUR- BID- ITY (JTU)	RIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FFCAL COLI- FORM (EC PROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 06...	121	70	4	.7	73	43	32	--	.31	.04	.23	10
NOV 08...	97	--	--	--	--	34	--	--	.20	<.02	.12	10
DEC 07...	45	45	9	1.1	73	9	3	--	<.02	<.02	.06	17
JAN 17...	47	80	9	.6	2300	11	5	--	.13	.02	.05	11
FEB 14...	75	40	7	.6	91	23	18	--	.27	.06	.08	7.0
MAR 14...	34	120	15	1.1	230	6	4	--	.09	<.02	.06	14
APR 06...	87	100	14	.9	36	31	25	--	.30	.05	.14	11
MAY 04...	166	35	7	.6	150	76	69	--	.38	<.02	.13	4.0
JUN 15...	218	10	3	.4	90	106	98	--	.15	<.02	.08	3.5
JUL 13...	244	15	6	4.2	<30	--	--	2	.46	.02	.24	11
AUG 10...	140	60	10	1.4	40	--	--	4	.71	.06	.50	7.0
SEP 13...	45	105	10	--	--	--	--	<1	.33	.04	.27	9.0

OCHLOCKONEE RIVER BASIN

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02327500 OCHLOCKONEE RIVER NEAR THOMASVILLE, GA.

LOCATION.--Lat 30°52'32", long 84°02'44", Thomas County, Hydrologic Unit 03120002, at bridge on U.S. Highway 84, 2 mi (3.2 km) upstream from Seaboard Coast Line Railroad bridge, 4 mi (6.4 km) upstream from Barnetts Creek, 5 mi (8.0 km) northwest of Thomasville, and 6 mi (9.6 km) downstream from Little Ochlockonee River.

DRAINAGE AREA.--550 mi² (1,420 km²), approximately.

PERIOD OF RECORD.--February 1968 current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Records of discharge for the water years 1937-1971 are published in reports of the Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT 06...	1330	47	6.8	25.0	19.0	6.3
NOV 08...	1430	81	6.7	13.5	10.0	7.5
JAN 17...	1445	2210	6.2	-1.0	4.0	11.2
FEB 14...	1330	418	6.9	18.0	9.0	9.0
APR 06...	1345	484	6.8	19.0	19.0	6.9
MAY 09...	1520	36	7.1	26.5	24.5	--
JUN 15...	1445	10	7.1	35.0	28.0	2.1
JUL 14...	0700	18	7.3	23.0	28.0	4.9
AUG 15...	0830	18	7.4	25.5	25.5	2.1

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 06...	278	50	12	2.7	430	52	45	2.2	1.3	1.7	9.0
NOV 08...	146	--	--	--	--	32	--	.70	.40	.59	8.0
JAN 17...	50	80	15	1.0	9300	10	6	.21	.05	.09	10
FEB 14...	72	30	9	1.1	230	15	12	.46	.28	.02	5.0
APR 06...	77	90	18	1.7	2100	18	9	.39	.22	.30	14
MAY 09...	255	45	10	5.3	91	58	51	1.5	1.2	1.4	8.0
JUN 15...	320	20	8	2.6	<30	78	67	1.7	1.2	2.2	8.0
JUL 14...	338	30	12	4.8	140	--	--	1.4	1.1	1.7	11
AUG 15...	620	25	9	4.7	930	--	--	2.9	4.3	5.1	8.0

OCHLOCKONEE RIVER BASIN

02328200 OCHLOCKONEE RIVER NEAR CALVARY, GA.

LOCATION.--Lat 30°43'53", long 84°14'12", Grady County, Hydrologic Unit 03120003, at county highway bridge, 1.5 mi (2.4 km) downstream from Tired Creek, and 6.5 mi (10.5 km) east of Calvary.

DRAINAGE AREA.--930 mi² (2,410 km²), approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
07...	0830	126	7.1	21.0	19.0	6.2
NOV						
08...	1545	238	6.8	14.0	10.5	9.6
JAN						
18...	0830	3720	6.6	-5.0	4.0	11.0
FEB						
14...	1430	940	6.8	18.0	9.0	9.4
APR						
07...	0900	900	6.6	12.0	19.0	6.8
MAY						
09...	1415	98	7.3	26.0	24.5	--
JUN						
16...	0930	35	6.9	29.0	29.0	5.5
JUL						
14...	0930	41	7.3	27.0	28.0	5.0
AUG						
15...	0700	150	7.0	22.5	23.5	6.8

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- IN-M- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH)	HARD- NESS (CA, MG) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT												
07...	103	15	7	5.2	<30	34	31	--	<.02	<.02	.19	16
NOV												
08...	113	--	--	--	--	24	--	--	.70	.16	.29	6.0
JAN												
18...	49	69	22	1.5	930	11	7	--	.23	.04	.10	10
FEB												
14...	69	30	10	.9	36	15	11	--	.39	.16	.14	4.0
APR												
07...	75	100	17	2.0	210	16	11	--	.44	.10	.20	11
MAY												
09...	177	50	10	1.2	<30	40	31	--	1.7	.27	.35	7.0
JUN												
16...	224	30	10	.9	<30	56	42	--	.66	.05	.39	6.5
JUL												
14...	327	60	21	3.6	40	--	--	11	.61	.05	.81	11
AUG												
15...	290	80	56	1.4	4900	--	--	--	.64	.09	.46	10

02330453 CHATTAHOOCHEE RIVER AT NACOOCHEE, GA.

LOCATION.--Lat 34°41'13", long 83°42'37", White County, Hydrologic Unit 03130001, at highway bridge on State Highways 17 and 75 at Nacoochee, and 1.0 mi (1.6 km) upstream from Dukes Creek.

DRAINAGE AREA.--49.0 mi² (127 km²).

PERIOD OF RECORD.--July 1977 to September 1977.

REMARKS.--Laboratory chemical analyses by Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
JUL 13...	1515	6.8	32.5	24.5	7.8
AUG 15...	0915	6.8	28.5	22.0	8.5

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)
JUL 13...	18	9	.5
AUG 15...	19	8	.6

DATE	FECAL COLI- FORM (EC BROTH) (MPN)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JUL 13...	430	.03	<.02	<.02	2.0
AUG 15...	430	.03	<.02	<.02	<1.0

02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA.

LOCATION.--Lat 34°32'27", long 83°37'14", Habersham-White County line, Hydrologic Unit 03130001, on downstream side of highway bridge, 1 mi (1.6 km) downstream from Soquee River, 6 mi (9.7 km) northwest of Cornelia, and at mile 401.4 (645.9 km).
DRAINAGE AREA.--315 mi² (816 km²).

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 2106: 1963(M).

GAGE.--Water-stage recorder. Datum of gage is 1,128.53 ft (343.98 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records good. Some regulation at low flow from Habersham Mill powerplant.

AVERAGE DISCHARGE.--20 years, 866 ft³/s (24.5 m³/s), 37.33 in/yr (948.2 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,400 ft³/s (478 m³/s) Mar. 12, 1963, gage height, 20.55 ft (6.264 m), from rating curve extended above 13,000 ft³/s (368 m³/s) on basis of contracted-opening measurement of peak flow; minimum daily, 91 ft³/s (2.58 m³/s) Sept. 7, 1957.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,200 ft³/s (176 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)
Mar. 13	0200	9350 265	8.70 2.652	Apr. 5	0300	7310 207	7.29 2.222
Mar. 30	0400	*19300 547	15.36 4.682				

Minimum daily discharge, 153 ft³/s (4.33 m³/s) Sept. 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	537	693	681	682	613	719	2880	1060	773	408	423	310
2	352	603	635	619	608	669	2310	1250	714	601	369	208
3	335	572	601	671	608	644	2590	1230	690	488	379	153
4	469	554	469	702	610	813	2440	1670	650	458	370	165
5	459	416	514	675	493	885	4910	1310	657	486	249	230
6	340	433	603	662	552	911	2590	1150	673	442	202	340
7	1180	470	1700	914	592	964	2210	1090	737	435	260	670
8	975	511	902	758	585	824	1990	1050	651	419	392	1000
9	1520	491	716	919	584	758	1860	1020	638	358	400	600
10	781	491	652	1580	568	720	1760	962	620	406	368	370
11	631	490	609	972	563	704	1680	940	555	453	351	340
12	564	580	1000	840	479	1860	1600	920	677	422	219	400
13	538	421	891	774	775	5120	1540	895	647	425	170	460
14	388	431	734	1120	672	1860	1450	864	662	422	211	825
15	440	553	1580	1180	619	1400	1400	864	640	419	396	868
16	439	535	1220	950	599	1200	1350	866	635	317	447	1350
17	437	525	914	822	587	1060	1310	861	624	243	518	1250
18	474	502	1070	778	586	1000	1290	929	570	593	586	825
19	443	488	751	719	475	927	1290	1050	606	446	356	670
20	493	387	891	732	521	1010	1220	918	601	415	239	670
21	499	390	949	693	570	1140	1150	915	602	383	322	565
22	470	500	774	655	569	2050	1140	912	579	263	391	530
23	348	495	729	660	575	1240	1640	892	643	229	396	460
24	334	478	689	684	837	1070	1750	863	602	312	445	340
25	699	364	697	684	725	993	1360	931	465	387	437	310
26	915	360	1080	652	676	931	1220	906	524	450	255	460
27	607	604	826	661	785	926	1150	940	588	413	340	460
28	558	799	755	678	840	962	1110	898	566	400	370	430
29	532	1330	710	608	---	5870	1070	867	492	297	400	400
30	456	839	610	602	---	15600	1030	806	479	302	340	412
31	904	---	556	648	---	5620	---	817	---	357	340	---
TOTAL	18117	16305	25508	24294	17266	60450	52290	30646	18560	12449	10941	16071
MFAN	584	544	823	784	617	1950	1743	989	619	402	353	536
MAX	1520	1330	1700	1580	840	15600	4910	1670	773	601	586	1350
MIN	334	360	469	602	475	644	1030	806	465	229	170	153
CFSM	1.85	1.73	2.61	2.49	1.96	6.19	5.53	3.14	1.97	1.28	1.12	1.70
IN.	2.14	1.93	3.01	2.87	2.04	7.14	6.18	3.62	2.19	1.47	1.29	1.90
CAL YR 1976 TOTAL	367304			MEAN 1004	MAX 9690	MIN 289	CFSM 3.19	IN 43.38				
WTR YR 1977 TOTAL	302897			MEAN 830	MAX 15600	MIN 153	CFSM 2.64	IN 35.77				

02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
DEC 27...	1325	809	7.1	10.0	4.0	12.6
APR 06...	0950	2600	6.8	13.0	9.0	10.6
AUG 03...	1415	394	7.0	23.5	22.0	7.9
SEP 14...	1320	876	6.8	28.5	21.0	8.3

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)
DEC 27...	20	20	72	.5	390
APR 06...	17	25	27	.4	4300
AUG 03...	30	--	14	.6	230
SEP 14...	28	--	74	1.4	4300

DATE	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC 27...	6	13	.16	.10	.24	8.0
APR 06...	4	6	.14	.02	.03	1.0
AUG 03...	--	--	.17	<.02	.03	1.0
SEP 14...	--	--	.21	<.02	.15	3.0

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TUR- BID- ITY (NTU)	SUS- PENDE SED- MENT (MG/L)	SUS- PENDE SED- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
NOV 03...	1120	572	--	11	17	--
MAR 09...	1410	753	8.0	21	43	94

APALACHICOLA RIVER BASIN

02333500 CHESTATEE RIVER NEAR DAHLONEGA, GA.

LOCATION.--Lat 34°31'41", long 83°56'23", Lumpkin County, Hydrologic Unit 03130001, on left bank 250 ft (76 m) upstream from Bearden Bridge on State Highway 52, 2 mi (3.2 km) downstream from Ballplay Creek, 2.5 mi (4.0 km) east of Dahlonega, and 3.5 mi (5.6 km) upstream from Yahoola Creek.

DRAINAGE AREA.--153 mi² (396 km²).

PERIOD OF RECORD.--June 1929 to January 1932, April 1940 to current year. Monthly discharge only for some periods, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 1,128.6 ft (344.0 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records good.

AVERAGE DISCHARGE.--39 years (1929-31, 1940-77), 370 ft³/s (10.5 m³/s), 32.84 in/yr (834.1 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,700 ft³/s (643 m³/s) Aug. 23, 1967, gage height, 25.17 ft (7.672 m); minimum daily, 49 ft³/s (1.39 m³/s) Oct. 4, 1931, Oct. 26, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 12, 1907 reached a stage of about 25 ft (7.6 m), from information by local resident. Flow increased by failure of dam above station.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,600 ft³/s (73.6 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)
Mar. 12	2400	4710 133	9.36 2.853	Apr. 5	0100	4360 123	8.92 2.719
Mar. 30	0445	*11700 331	16.88 5.145				

Minimum discharge, 115 ft³/s (3.26 m³/s) Sept. 4, gage height, 0.90 ft (0.274 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	170	277	302	319	250	321	1510	478	351	219	189	126
2	154	239	268	297	250	297	1170	539	303	266	148	122
3	152	220	245	303	242	283	1310	554	289	203	146	119
4	149	208	229	308	242	424	1310	937	279	192	148	118
5	147	198	218	307	241	408	2520	621	272	187	142	122
6	150	191	238	301	232	497	1320	532	275	181	134	120
7	383	188	614	415	229	480	1060	484	289	174	132	310
8	384	180	362	348	225	399	926	458	260	167	176	341
9	697	177	302	505	224	364	826	425	255	162	208	258
10	317	176	276	872	223	342	768	401	245	161	173	175
11	245	177	263	492	223	337	722	395	239	156	147	154
12	215	233	425	403	236	1110	684	389	248	154	135	138
13	200	192	391	367	347	2440	653	379	234	162	130	222
14	189	188	322	564	270	945	625	370	260	156	127	528
15	178	198	705	572	252	677	601	361	247	157	129	385
16	173	192	546	452	239	565	579	349	256	150	144	589
17	171	184	404	394	232	491	555	341	294	150	174	537
18	167	179	350	376	229	450	535	341	285	165	218	355
19	164	174	318	358	227	415	545	374	270	145	166	273
20	181	174	476	346	223	446	512	372	236	140	141	239
21	177	175	454	325	219	522	490	371	228	134	133	202
22	165	167	360	301	217	874	482	370	225	153	137	182
23	162	165	331	293	217	551	742	396	307	147	157	171
24	165	164	307	302	439	473	1010	358	243	136	234	162
25	317	163	313	289	328	433	650	351	219	137	173	160
26	351	169	499	281	287	414	569	345	217	189	141	166
27	237	240	362	287	367	393	528	345	213	161	241	170
28	204	404	332	295	369	429	497	346	201	142	181	160
29	196	697	309	280	---	2980	467	364	197	155	149	150
30	227	381	292	268	---	8340	448	344	201	171	135	160
31	385	---	366	257	---	2700	---	331	---	171	129	---
TOTAL	7182	6690	11179	11477	7279	29800	24614	13021	7638	5143	4917	6914
MEAN	232	223	361	370	260	961	820	420	255	166	159	230
MAX	697	697	705	872	439	8340	2520	937	351	266	241	589
MTN	147	163	218	257	217	283	448	331	197	134	127	118
CFSM	1.52	1.46	2.36	2.42	1.70	6.28	5.36	2.75	1.67	1.09	1.04	1.50
IN.	1.75	1.63	2.72	2.79	1.77	7.25	5.98	3.17	1.86	1.25	1.20	1.68

CAL YR 1976	TOTAL	163030	MEAN 445	MAX 6850	MIN 111	CFSM 2.91	IN 39.64
WTR YR 1977	TOTAL	135854	MEAN 372	MAX 8340	MIN 118	CFSM 2.43	IN 33.03

02334430 CHATTAHOOCHEE RIVER AT BUFORD DAM, NEAR BUFORD, GA.

LOCATION.--Lat 34°09'25", long 84°04'44", Gwinnett-Forsyth County line, Hydrologic Unit 03130001, on right bank 1,200 ft (366 m) downstream from Buford Dam, 2.4 mi (3.9 km) upstream from bridge on State Highway 20, 4 mi (6.4 km) northwest of Buford, and at mile 348.1 (560.0 km).

DRAINAGE AREA.--1,040 mi² (2,690 km²), approximately.

PERIOD OF RECORD.--June to December 1901 (figures of daily discharge for the months of August and December, published in WSP 197, are unreliable and should not be used), October 1941 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--See period of record.

GAGE.--Water-stage recorder. Datum of gage is 912.04 ft (277.99 m) above mean sea level (levels by Corps of Engineers). June 24 to Dec. 21, 1901, Jan. 27, 1942 to Dec. 3, 1944, nonrecording gage, and Dec. 4, 1944 to Dec. 31, 1947, water-stage recorder at site 2.5 mi (4.0 km) downstream, and Jan. 1, 1948 to Sept. 30, 1971, water-stage recorder at site 2.4 mi (3.9 km) downstream, all at different datum.

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier beginning January 1956 (See "Lakes and Reservoirs in Apalachicola River basin", station 02334400.)

AVERAGE DISCHARGE.--36 years, 2,163 ft³/s (61.3 m³/s), 28.24 in/yr (717.3 mm/yr), adjusted for storage since 1956.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,000 ft³/s (1,560 m³/s) Jan. 8, 1946, gage height, 32.6 ft (9.94 m), from floodmark, from rating curve extended above 13,000 ft³/s (368 m³/s) on basis of peak flows passing upstream and downstream stations; minimum daily, 262 ft³/s (7.42 m³/s) May 18, 1958.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1921, that of Jan. 8, 1946.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,760 ft³/s (276 m³/s) July 21, gage height, 11.13 ft (3.392 m); minimum daily, 500 ft³/s (14.2 m³/s) May 7.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2240	1490	1110	550	990	2330	1560	891	1340	1850	2890	4380
2	706	1240	1070	882	994	2250	6010	4260	2200	510	2240	1640
3	1480	1240	920	1070	997	2280	1030	4200	2190	901	2250	520
4	1350	1260	560	1090	1050	2090	3120	4180	906	899	2250	928
5	1350	1270	890	1080	529	510	3630	4230	898	2380	3790	3660
6	1360	567	1080	1080	812	820	5140	4270	4070	2300	940	1850
7	1350	566	1120	1080	1120	3180	6760	500	2270	2320	918	1870
8	1350	2320	1940	558	2290	3170	6880	900	2820	2310	2870	1600
9	755	1310	1610	904	1140	3260	6880	5030	2750	510	2870	2910
10	920	1170	1290	4270	1200	3090	6850	5040	2820	735	2860	510
11	1300	1160	566	2940	1080	3150	6870	5040	510	2590	2880	917
12	1340	1200	574	1040	522	525	6850	5050	916	2280	2890	2940
13	1360	542	1130	1040	824	659	7830	5050	2450	2290	510	2950
14	1360	860	1070	1040	1510	3520	7850	510	2460	2270	909	2940
15	1360	2770	1030	542	986	3440	7880	905	2350	2290	3920	2950
16	738	1140	1170	862	963	3620	7880	1400	2360	510	3930	2940
17	942	2030	1040	4500	1810	3330	7880	1470	2350	898	2640	510
18	1830	1420	550	1600	1080	3880	4900	1660	510	3500	2080	1290
19	1980	1140	930	2580	502	510	4230	2000	910	3560	2140	2230
20	2260	558	1380	938	803	822	7920	2230	2280	3510	510	2210
21	3040	912	1210	1030	1100	2780	7880	1060	2290	3520	921	2230
22	2200	2140	1390	537	1100	4000	5870	740	2980	3510	3970	2220
23	719	1160	1070	840	1100	5660	4900	1630	2270	510	3980	2210
24	864	1140	1060	974	1100	5660	4600	1190	2470	906	3980	510
25	1150	1160	560	919	1100	5660	5180	1180	510	3570	4000	916
26	1530	1130	890	980	526	510	7000	902	908	3600	3990	1530
27	1300	565	1060	999	855	767	7030	740	2920	3570	530	1530
28	1270	574	1050	973	2420	1800	7040	905	1970	3600	935	1520
29	1280	4400	1050	539	---	1460	7070	743	1940	2870	4390	1500
30	574	2030	1050	984	---	738	510	906	1940	917	4370	1170
31	582	---	1050	1010	---	1930	---	918	---	918	4370	---
TOTAL	41840	40414	32470	39431	30503	77401	175030	69730	59558	65904	81723	57081
MEAN	1350	1347	1047	1272	1089	2497	5834	2249	1985	2126	2636	1903
MAX	3040	4400	1940	4500	2420	5660	7920	5050	4070	3600	4390	4380
MIN	574	542	550	537	502	510	510	500	510	510	510	510
MEAN†	1357	1226	2171	1241	1588	5436	3779	2236	1190	804	738	1256
CFSM†	1.30	1.18	2.09	1.19	1.53	5.23	3.63	2.15	1.14	.77	.71	1.21
IN†	1.50	1.32	2.41	1.37	1.59	6.03	4.05	2.48	1.27	.89	.82	1.35
CAL YR 1976 TOTAL	989144			2703	9380	524	2599			2.50	34.02	
WTR YR 1977 TOTAL	771085			2113	7920	500	2007			1.93	26.20	

† Adjusted for change in contents in Lake Sidney Lanier.

APALACHICOLA RIVER BASIN

02335000 CHATTAHOOCHEE RIVER NEAR NORCROSS, GA.

LOCATION.--Lat 33°59'50", long 84°12'07", Gwinnett-Fulton County line, Hydrologic Unit 03130001, on downstream side of right bank pier of bridge on State Highway 141, 1.5 mi (2.4 km) upstream from John Creek, 4.5 mi (7.2 km) north of Norcross, 6.5 mi (10.5 km) downstream from Suwanee Creek, 18 mi (29 km) downstream from Buford Dam, and at mile 330.8 (532.3 km).

DRAINAGE AREA.--1,170 mi² (3,030 km²), approximately.

PERIOD OF RECORD.--October 1902 to September 1946, October 1956 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at same site 1910-33, and since 1945 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 878.14 ft (267.66 m) above mean sea level (levels by Corps of Engineers). Prior to July 13, 1955, nonrecording gage at site 500 ft (152 m) downstream at same datum. July 14, 1955 to Mar. 11, 1957, nonrecording gage at present site and datum.

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversion and return flow above station regulated by Gwinnett County.

AVERAGE DISCHARGE.--65 years, 2,317 ft³/s (65.6 m³/s), 26.89 in/yr (683.0 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,000 ft³/s (1,560 m³/s) Jan. 8, 1946, gage height, 27.7 ft (8.443 m), from rating curve extended above 36,000 ft³/s (1,020 m³/s) on basis of computation of peak flow over Morgan Falls Dam; minimum observed, 132 ft³/s (3.74 m³/s) Aug. 25, 1925.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1896, that of Jan. 8, 1946.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,500 ft³/s (297 m³/s) Mar. 30, gage height, 11.09 ft (3.380 m); minimum daily, 624 ft³/s (17.7 m³/s) July 10.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2340	1510	1810	721	1160	2710	2240	739	1100	2030	2820	4660
2	1430	1360	1180	669	1140	2690	4940	3380	2020	1420	1900	2510
3	806	1300	1240	1390	1150	2660	4440	4250	2320	666	2370	694
4	1220	1320	701	1200	1140	2730	2950	4620	1290	904	2390	697
5	1410	1310	649	1190	717	1190	5380	4560	809	1810	3670	3280
6	1420	676	1460	1200	677	779	5810	4580	3040	2470	2040	2560
7	1480	640	1390	1450	1500	2580	6870	2540	2680	2540	971	2030
8	1510	1270	1330	807	2100	3660	7660	705	2800	2410	2210	1770
9	1290	2120	2070	1200	2120	4060	7640	3890	2990	1380	3040	2830
10	784	712	1650	4830	1310	3150	7640	5360	2990	624	3060	998
11	935	1910	711	4570	1290	3350	7620	5380	1370	1960	3060	747
12	1440	1310	751	1790	726	2040	7630	5390	644	2440	3050	2790
13	1450	673	1300	1290	796	1160	8650	5380	1820	2400	1820	3130
14	1440	643	1230	1390	1940	2970	8640	2360	2570	2410	633	3150
15	1440	2520	1380	1010	1200	3880	8600	676	2490	2400	3050	3150
16	1410	1940	1350	810	1140	3800	8670	1300	2480	1390	4150	3180
17	769	1330	1470	3780	1240	4000	8600	1490	2470	639	3640	1050
18	1520	1950	734	2540	1290	4160	8200	1410	1520	3040	2020	1160
19	3120	1590	678	3030	845	1990	2630	2060	666	3660	2160	2190
20	1770	683	1530	2080	654	745	8510	2860	1780	3970	1080	2390
21	2940	655	1620	1290	1300	2770	8670	2350	2400	3690	699	2390
22	3080	1860	1270	755	1090	5170	8300	710	2960	3710	3340	2400
23	766	1740	1350	703	1090	6240	6190	1150	2600	1510	4230	2380
24	738	1210	1200	1470	1380	6470	8300	1490	2440	634	4220	932
25	1660	1210	751	1230	1240	6450	7720	1320	1590	3000	4250	755
26	1450	1220	968	1240	764	2580	7670	1490	653	3790	4250	1330
27	1590	697	1540	1260	783	761	7670	868	2250	3790	1720	1610
28	1380	714	1240	1260	2370	1470	7700	930	2380	3810	696	1610
29	1380	3400	1220	778	---	3140	7660	786	2040	3500	3780	1510
30	703	3440	1200	733	---	6430	3050	894	2030	1280	4620	1150
31	701	---	1210	1540	---	2360	---	896	---	900	4620	---
TOTAL	45372	42913	38183	49206	34152	98145	206250	75814	61192	70177	85559	61033
MEAN	1464	1430	1232	1587	1220	3166	6875	2446	2040	2264	2760	2034
MAX	3120	3440	2070	4830	2370	6470	8670	5390	3040	3970	4620	4660
MTN	701	640	649	669	654	745	2240	676	644	624	633	694

CAL YR 1976 TOTAL 1122742 MEAN 3068 MAX 10100 MIN 640 MEAN† 2964 CFSM† 2.53 IN† 34.48
WTR YR 1977 TOTAL 867996 MEAN 2378 MAX 8670 MIN 624 MEAN† 2272 CFSM† 1.94 IN† 26.36

† Adjusted for change in contents in Lake Sidney Lanier.

LOCATION.--Lat 33°59'09", long 84°18'58", Fulton County, Hydrologic Unit 03130001, on right bank 3.3 mi (5.3 km) upstream from Big Creek and bridge on U.S. Highway 19, and 3.6 mi (5.8 km) southeast of Roswell.

DRAINAGE AREA.--1,220 mi² (3,160 km²), approximately.

PERIOD OF RECORD.--October 1941 to May 1960 (published as "near Roswell"), July 1976 to current year.

GAGE.--Water-stage recorder. Datum of gage is 858.01 ft (261.521 m) above mean sea level. Prior to Oct. 1, 1976 at site 1.8 mi (2.9 km) downstream at datum 5.36 ft (1.634 m) lower.

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola Basin," station 02334400.)

AVERAGE DISCHARGE.--19 years, 2,082 ft³/s (59.0 m³/s), 23.18 in/yr (588.8 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,000 ft³/s (1.586 m³/s) Jan. 8, 1946 (gage height, 23.4 ft site and datum then in use, from floodmark) from rating curve extended above 30,000 ft³/s (850 m³/s) on basis of computation of peak flow over Morgan Falls Dam 6 miles downstream; minimum daily, 315 ft³/s (8.92 m³/s) Aug. 11, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,800 ft³/s (334 m³/s) Mar. 30, gage height, 8.88 ft (2.707 m); minimum daily, 511 ft³/s (14.5 m³/s) July 10.

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

[illegible]

02335450 CHATTAHOOCHEE RIVER ABOVE ROSWELL, GA.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1910	1310	1900	805	1160	2620	2230	710	965	1970	2270	4540
2	1970	1390	1170	648	1100	2590	3580	2070	1540	1920	1760	3350
3	757	1300	1210	1350	1150	2550	5530	4110	2230	590	2320	893
4	1020	1310	805	1200	1130	2670	2620	4510	1670	851	2310	516
5	1390	1310	616	1200	789	1440	5210	4360	837	1090	3310	2070
6	1360	809	1320	1230	649	792	5250	4450	1950	2390	2750	3330
7	1470	580	1410	1510	1380	2180	6440	3550	3700	2410	900	2020
8	1510	1130	1300	921	1820	3520	7260	636	2400	2300	1530	1800
9	1580	2110	2050	1510	2210	3720	7260	2740	2840	2010	2960	2180
10	818	850	1680	4530	1240	3060	7200	5510	2820	511	2980	1860
11	914	1790	836	4700	1260	3240	7260	5150	1800	1150	2950	577
12	1420	1320	768	1980	828	2560	7260	5110	527	2360	2970	2600
13	1420	773	1280	1290	797	1340	8280	5130	1000	2270	2410	3200
14	1430	624	1260	1450	1720	2400	8370	3280	2420	2320	591	3000
15	1420	2030	1420	1130	1260	3550	8260	600	2390	2290	2260	3200
16	1420	2250	1410	832	1100	3680	8260	862	2350	2010	4030	3200
17	791	1230	1510	3130	1160	3840	8210	1350	2350	516	3790	1200
18	1370	2040	835	2880	1350	3950	8120	1410	2150	2120	2070	1100
19	3010	1630	656	2760	945	2560	2320	1750	524	3430	2090	1600
20	1720	805	1520	2150	600	748	7850	2110	1060	3920	1580	2400
21	2840	624	1670	1250	1200	2480	8270	2450	2260	3540	554	2500
22	3080	1640	1270	776	1100	4830	8190	737	2680	3570	2290	2500
23	991	1840	1390	633	1070	5630	5680	727	2690	2310	4090	2400
24	729	1230	1210	1380	1480	6140	8090	1680	2280	514	4110	1500
25	1540	1190	959	1230	1300	6120	7410	1280	2240	2070	4130	800
26	1460	1220	1100	1220	880	3660	7340	1520	541	3660	4140	1200
27	1620	1030	1500	1240	807	769	7250	874	1360	3700	2650	1600
28	1370	762	1220	1260	2120	1310	7310	883	2550	3730	584	1700
29	1360	2580	1230	836	---	2950	7320	774	1960	3630	2750	1600
30	876	3990	1200	665	---	8150	4390	868	1910	1840	4500	1200
31	705	---	1220	1490	---	2660	---	854	---	912	4470	---
TOTAL	45271	42697	38925	49186	33605	97709	198020	72045	57994	67904	82099	61636
MEAN	1460	1423	1256	1587	1200	3152	6601	2324	1933	2190	2648	2055
MAX	3080	3990	2050	4700	2210	8150	8370	5510	3700	3920	4500	4540
MIN	705	580	616	633	600	748	2230	600	524	511	554	516

WTR YR 1977 TOTAL 847091 MEAN 2321 MAX 8370 MIN 511 MEAN† 2215 CFSM† 1.82 IN† 24.65

† Adjusted for change in contents in Lake Sidney Lanier.

APALACHICOLA RIVER BASIN

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02335700 BIG CREEK NEAR ALPHARETTA, GA.

LOCATION.--Lat 34°03'02", long 84°16'10", Fulton County, Hydrologic Unit 03130001, on left bank at downstream side of county highway bridge, 2.6 mi (4.2 km) southeast of Alpharetta, and 9.4 mi (15.1 km) upstream from mouth.

DRAINAGE AREA.--72 mi² (186 km²), approximately.

PERIOD OF RECORD.--May 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 960.80 ft (292.85 m) above mean sea level (levels by U.S. Soil Conservation Service).

REMARKS.--Records good.

AVERAGE DISCHARGE.--17 years, 118 ft³/s (3.34 m³/s), 22.26 in/yr (565.4 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,800 ft³/s (164 m³/s) Feb. 21, 1961, gage height, 12.54 ft (3.82 m); minimum daily, 10 ft³/s (0.28 m³/s) Oct. 6, 7, 1970.

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)
Jan. 11	1100	832 23.6	7.81 2.380	Apr. 6	0800	840 23.8	7.94 2.420
Mar. 30	1900	*5080 144	12.20 3.719				

Minimum daily discharge, 16 ft³/s (0.45 m³/s) July 24, 25.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	51	66	67	79	131	569	77	46	85	21	21
2	23	43	58	64	75	107	269	79	43	104	19	20
3	21	41	52	71	76	97	418	77	40	41	20	20
4	20	40	49	84	79	141	583	83	39	32	21	19
5	19	39	46	78	83	152	708	74	37	29	21	21
6	21	38	50	73	76	182	757	67	36	27	20	20
7	42	38	170	203	70	221	300	67	46	25	20	37
8	46	37	105	138	69	154	205	69	38	25	28	59
9	73	37	68	259	69	122	168	62	37	23	24	36
10	40	38	59	666	70	108	148	57	34	22	59	29
11	34	38	56	741	71	104	135	57	33	21	26	31
12	30	39	149	233	79	175	125	56	41	20	21	25
13	29	38	196	145	223	374	119	55	38	20	20	25
14	24	41	101	200	138	223	115	53	33	19	20	36
15	27	57	173	317	103	142	110	52	33	19	19	33
16	27	50	171	192	90	118	104	50	32	19	19	47
17	30	44	96	125	83	103	99	49	32	20	38	83
18	29	42	76	110	81	98	94	48	38	19	76	51
19	28	41	66	95	78	91	97	49	34	18	35	39
20	31	40	128	88	74	94	104	50	31	18	28	41
21	33	41	175	84	72	194	91	47	31	17	25	33
22	30	38	93	81	70	482	92	47	29	17	24	28
23	30	37	79	81	69	267	107	54	29	17	26	27
24	31	38	70	87	262	153	136	51	30	16	51	26
25	49	39	84	94	239	122	98	57	27	16	39	26
26	73	40	240	97	130	106	86	57	27	24	30	32
27	43	59	139	121	198	98	82	73	29	23	28	32
28	37	107	98	137	190	99	78	57	26	21	26	44
29	35	222	82	123	---	402	76	52	24	21	24	31
30	49	104	72	110	---	3180	79	62	29	30	23	34
31	86	---	77	87	---	1580	---	49	---	25	22	---
TOTAL	1120	1557	3144	5051	2996	9620	6152	1837	1022	833	873	1006
MEAN	36.1	51.9	101	163	107	310	205	59.3	34.1	26.9	28.2	33.5
MAX	86	222	240	741	262	3180	757	83	46	104	76	83
MTN	19	37	46	64	69	91	76	47	24	16	19	19
CFSM	.50	.72	1.40	2.26	1.49	4.31	2.85	.82	.47	.37	.39	.47
IN.	.58	.80	1.62	2.61	1.55	4.97	3.18	.95	.53	.43	.45	.52
CAL YR 1976	TOTAL	47381	MEAN	129	MAX	1990	MIN	18	CFSM	1.79	IN	24.48
WTR YR 1977	TOTAL	35211	MEAN	96.5	MAX	3180	MIN	16	CFSM	1.34	IN	18.19

02336000 CHATTAHOOCHEE RIVER AT ATLANTA, GA.

LOCATION.--Lat 33°51'33", long 84°27'16", Fulton-Cobb County line, Hydrologic Unit 03130001, on left bank 20 ft (6 m) upstream from Paces Ferry Bridge, at Atlanta, 1 mi (1.6 km) downstream from Rottenwood Creek, 2.5 mi (4.0 km) upstream from Peachtree Creek, and at mile 303.0 (487.5 km).

DRAINAGE AREA.--1,450 mi² (3,760 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1928 to December 1931, October 1936 to current year. Monthly discharge only for some periods, published in WSP 1304. Prior to October 1951, published as "near Vinings".

REVISED RECORDS.--WSP 972: 1932.

GAGE.--Water-stage recorder. Datum of gage is 750.10 ft (228.63 m) above mean sea level. Aug. 3, 1928 to Dec. 31, 1931, water-stage recorder, and Nov. 15, 1936 to Mar. 8, 1937, nonrecording gage at same site and datum. Since June 1967, auxiliary water-stage recorder at bridge on U.S. Highway 41, 0.8 mi (1.3 km) upstream.

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions above station by Gwinnett, DeKalb, and Cobb Counties; return flows above station by Gwinnett and Cobb Counties. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant 9.5 mi (15.3 km) above station.

AVERAGE DISCHARGE.--44 years, 2,603 ft³/s (73.7 m³/s), 24.38 in/yr (619.3 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,000 ft³/s (1,670 m³/s) Jan. 9, 1946, gage height, 28.0 ft (8.53 m); minimum daily, 296 ft³/s (8.38 m³/s) Sept. 2, 1957.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1896, 29.0 ft (8.84 m) in December 1919, from floodmarks at site 2.6 mi (4.2 km) downstream and stage relation between the two sites.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28,900 ft³/s (818 m³/s) Mar. 30; maximum gage height, 20.57 ft (6.270 m), back-water from Peachtree Creek; minimum daily discharge, 1,050 ft³/s (29.7 m³/s) May 15.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2410	1160	2150	1170	1460	3070	4240	1350	1170	2180	2030	4410
2	1740	1610	1540	1150	1370	2960	3510	2100	1150	1510	2520	3840
3	1180	1480	1350	1190	1370	2750	7690	4300	2050	1150	2280	1210
4	1310	1450	1290	1590	1400	3230	3850	4340	2130	1160	2400	1200
5	1450	1500	1110	1470	1160	2640	6800	4250	1150	1540	2450	1240
6	1470	1170	1250	1510	1160	1590	6040	4250	1150	2150	2900	3570
7	1750	1130	1930	2090	1170	2740	6700	3200	4230	2210	1100	2180
8	1830	1140	1740	1590	1990	4300	7560	1160	2520	2450	1870	2050
9	1610	1500	2130	3190	2490	4070	7490	1900	2660	1710	2790	1790
10	1220	1560	1970	5640	1520	3640	7430	4850	2710	1140	2980	2260
11	1210	1530	1350	6160	1520	3700	7400	5050	2770	1180	2990	1130
12	1560	1510	1380	3130	1390	3650	7330	4990	1340	2230	3000	1350
13	1570	1180	1530	1790	1540	2540	8230	4870	1200	2310	2540	2710
14	1620	1140	1660	2020	1830	3170	8240	3910	2350	2360	1180	2990
15	1610	1950	1910	1980	1790	4260	8420	1050	2440	2310	1480	3130
16	1230	2280	1930	1520	1470	4170	8290	1100	2470	1730	3750	3140
17	1200	1410	1870	2200	1440	4460	8220	1510	2350	1150	4070	2500
18	1350	2090	1270	3790	1840	4190	8130	1570	1860	1240	2960	1110
19	2770	1820	1140	2760	1230	3360	4420	1640	1200	3240	2120	1940
20	2120	1300	1590	2660	1230	1400	6050	2380	1200	3820	1390	2430
21	2680	1110	2110	1660	1230	3740	8230	2240	2380	3460	1110	2360
22	3270	1160	1580	1200	1370	7050	8180	1100	2590	3320	1600	2200
23	1740	1930	1740	1150	1390	6280	6170	1590	3030	2770	3930	2350
24	1150	1460	1450	1240	2490	6680	7820	1870	2510	1100	4170	2200
25	1310	1330	1570	1620	2070	6590	7450	1260	1770	1520	4110	1080
26	1570	1450	1910	1550	1480	5060	7370	1320	1170	3570	4010	1170
27	1810	1280	1920	1550	1630	1260	7200	1210	1580	3580	3450	1500
28	1520	1500	1580	1640	2600	1980	7270	1220	2620	3650	1130	1620
29	1520	1940	1590	1380	---	4690	7270	1190	2080	3620	1730	1600
30	1430	4920	1420	1130	---	19300	5840	1160	2000	2240	4290	1620
31	1200	---	1590	1130	---	7680	---	1120	---	1310	4360	---
TOTAL	51410	47990	50550	63850	44630	136200	208840	75050	61830	68910	82690	63880
MEAN	1658	1600	1631	2060	1594	4394	6961	2421	2061	2223	2667	2129
MAX	3270	4920	2150	6160	2600	19300	8420	5050	4230	3820	4360	4410
MIN	1150	1110	1110	1130	1160	1260	3510	1050	1150	1100	1100	1080
CAL YR 1976 TOTAL	1252660			3423	MAX	13500	MIN	1110	MEAN† 3319	CFSM† 2.29	IN† 31.16	
WTR YR 1977 TOTAL	955830			MEAN 2619	MAX	19300	MIN	1050	MEAN† 2513	CFSM† 1.73	IN† 23.53	

* Adjusted for change in contents in Lake Sidney Lanier.

02336000 CHATTAHOOCHEE RIVER AT ATLANTA, GA.--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT					
18...	1320	1200	--	14.5	9.8
29...	1210	1740	--	13.0	--
DEC					
02...	1245	1190	--	9.0	--
FEB					
15...	1100	1610	6.6	6.0	--
MAR					
07...	1330	4620	--	11.5	--
APR					
18...	1300	7790	--	11.5	12.2
22...	1045	7990	--	11.0	12.2
26...	1155	7870	--	10.0	12.1
MAY					
03...	1225	4890	6.0	11.5	10.4
16...	1045	1030	6.0	17.0	10.0
19...	1030	1100	6.0	17.0	9.1
24...	0900	2330	6.0	18.0	8.3
JUN					
03...	0930	3940	5.9	17.5	9.3
14...	1030	2440	6.0	20.5	--
29...	1030	1340	5.9	18.0	7.9
JUL					
06...	0930	1230	6.2	21.5	8.0
12...	0830	1320	5.9	22.0	7.0
AUG					
02...	0800	2240	6.1	16.0	9.1
08...	0830	1560	6.6	20.5	8.4
16...	0730	6550	--	13.0	9.0
29...	0715	1120	6.2	18.5	8.4
SEP					
13...	0715	3350	6.1	16.5	8.0
26...	0730	1140	6.2	17.5	7.5

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TUR- BID- ITY (NTU)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)
OCT								
18...	46	4.0	3	57	--	6.5	21	6
29...	52	5.0	8	120	--	6.6	31	0
DEC								
02...	33	5.0	8	60	--	5.8	32	3
FEB								
15...	54	15	29	40	77	9.6	52	42
MAR								
07...	39	30	9	--	--	7.3	28	86
APR								
18...	--	7.0	11	--	--	4.9	21	21
22...	31	10	12	243	263	5.7	32	36
26...	41	2.0	10	106	273	5.0	21	11
MAY								
03...	23	8.0	9	--	280	5.1	28	27
16...	53	4.0	5	120	370	6.6	42	9
19...	50	5.0	25	240	540	6.3	30	2
24...	45	3.0	9	600	81100	6.9	38	0
JUN								
03...	35	7.0	9	710	950	6.3	36	45
14...	43	4.0	8	640	3100	7.4	34	1
29...	52	2.0	8	140	620	5.9	40	0
JUL								
06...	47	3.0	9	380	1600	6.8	35	8
12...	42	2.0	10	670	5000	6.7	36	13
AUG								
02...	38	4.0	5	31	42	6.3	154	11
08...	44	40	20	84500	8422	6.3	36	28
16...	44	10	10	1200	4500	5.8	23	14
29...	42	4.0	5	670	290	6.1	26	30
SEP								
13...	36	10	--	430	700	6.4	29	24
26...	48	8.0	25	2200	3300	6.1	30	0

APALACHICOLA RIVER BASIN

02336000 CHATTAHOOCHEE RIVER AT ATLANTA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)		
OCT									
18...	--	--	--	1500	--	--	--		
29...	--	--	--	660	--	--	--		
DEC									
02...	--	--	--	770	--	--	--		
FEB									
15...	1	0	10	2900	16	--	20		
MAR									
07...	2	--	--	--	--	.0	--		
APR									
18...	1	0	<10	1500	16	.0	50		
22...	--	--	--	2000	--	--	--		
26...	--	--	--	1200	--	--	--		
MAY									
03...	--	--	--	1900	--	--	--		
16...	--	--	--	430	--	--	--		
19...	--	--	--	440	--	--	--		
24...	--	--	--	470	--	--	--		
JUN									
03...	2	0	30	2500	9	.0	90		
14...	--	--	--	700	--	--	--		
29...	--	--	--	460	--	--	--		
JUL									
06...	--	--	--	1000	--	--	--		
12...	--	--	--	1000	--	--	--		
AUG									
02...	--	--	--	1000	--	--	--		
08...	--	--	--	23000	--	--	--		
16...	--	--	--	3900	--	--	--		
29...	--	--	--	380	--	--	--		
SEP									
13...	0	0	10	1800	4	<.5	10		
26...	--	--	--	520	--	--	--		

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)
OCT									
18...	.21	.01	.10	.11	.32	1.4	.03	.6	0
29...	.16	.06	.18	.24	.40	1.8	.03	1.3	1
DEC									
02...	.18	.06	.14	.20	.38	1.7	.03	4.9	--
FEB									
15...	.46	.82	.68	1.5	2.0	8.7	.40	3.3	1
MAR									
07...	.27	.06	.36	.42	.69	3.1	.10	2.8	0
APR									
18...	.17	.03	.16	.19	.36	1.6	.03	4.8	1
22...	.27	.13	.33	.46	.73	3.2	.12	1.2	0
26...	.19	.02	.33	.35	.54	2.4	.02	5.1	1
MAY									
03...	.19	.02	.13	.15	.34	1.5	.03	5.7	0
16...	.24	.00	.18	.18	.42	1.9	.02	6.2	1
19...	.21	.01	.18	.19	.40	1.8	.01	5.1	3
24...	.24	.01	.12	.13	.37	1.6	.01	4.9	2
JUN									
03...	.24	.01	.45	.46	.70	3.1	.05	5.9	0
14...	.33	.01	.11	.12	.45	2.0	.02	2.8	0
29...	.25	.00	.00	.00	.25	1.1	.03	3.1	1
JUL									
06...	.28	.00	.00	.00	.28	1.2	.02	--	1
12...	.30	.03	.09	.12	.42	1.9	.03	5.8	5
AUG									
02...	.32	.01	.26	.27	.59	2.6	.03	3.2	0
08...	.36	.06	.62	.68	1.0	4.6	.21	6.5	0
16...	.34	.03	.50	.53	.87	3.9	.04	6.1	0
29...	.30	.01	.17	.18	.48	2.1	.03	7.1	0
SEP									
13...	.36	.00	.04	.04	.40	1.8	.04	7.4	0
26...	.33	.01	.19	.20	.53	2.3	.02	11	1

02336300 PEACHTREE CREEK AT ATLANTA, GA.

LOCATION.--Lat 33°49'10", long 84°24'28", Fulton County, Hydrologic Unit 03130001, on downstream side of bridge on Northside Drive at Atlanta, 0.4 mi (0.6 km) downstream from Tanyard Branch, and 4 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--86.8 mi² (225 km²).

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 763.96 ft (232.86 m) above mean sea level, city of Atlanta bench mark. Prior to

May 26, 1963, water-stage recorder at site 1,000 ft (305 m) downstream at same datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--19 years, 138 ft³/s (3.91 m³/s), 21.59 in/yr (548.4 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,660 ft³/s (245 m³/s) Mar. 16, 1976, gage height, 20.30 ft (6.187 m); minimum daily, 8 ft³/s (0.227 m³/s) Aug. 10, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,030 ft³/s (114 m³/s) Mar. 21, gage height, 13.89 ft (4.234 m); minimum daily, 12 ft³/s (0.340 m³/s) Aug. 12.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	37	56	49	52	88	143	101	36	175	20	22
2	18	32	48	45	52	81	116	55	34	359	36	22
3	17	31	44	133	52	78	407	97	32	50	107	21
4	16	30	42	81	53	349	243	58	31	37	46	23
5	16	29	41	61	53	115	873	48	31	34	23	25
6	20	29	141	151	50	324	178	47	29	32	19	24
7	327	30	276	325	49	376	129	52	34	30	17	308
8	160	29	83	81	52	115	113	48	27	28	15	80
9	199	30	56	1220	61	95	95	47	28	23	25	41
10	37	31	52	674	64	88	88	44	28	21	22	34
11	28	36	57	174	167	88	83	43	25	21	14	31
12	28	50	280	148	129	431	81	41	51	20	12	29
13	27	33	204	108	186	431	82	40	25	104	60	33
14	28	77	69	363	61	120	80	40	28	92	37	53
15	28	446	272	144	56	105	78	39	26	24	16	81
16	27	72	97	96	52	95	76	39	25	21	20	187
17	114	43	65	87	79	85	72	38	24	23	50	81
18	45	37	55	85	131	79	71	122	48	29	35	105
19	31	35	50	85	111	78	120	108	46	36	18	112
20	139	33	254	85	95	158	70	205	39	18	48	98
21	48	37	107	85	81	1220	66	61	55	16	25	36
22	32	30	61	84	69	1040	68	54	154	31	15	29
23	30	31	55	72	56	206	210	82	365	24	20	27
24	29	31	51	109	681	152	396	76	49	15	17	26
25	161	30	335	118	116	132	81	53	34	208	42	91
26	104	53	436	85	90	120	68	116	29	75	136	219
27	37	186	95	68	328	114	61	236	34	23	312	57
28	32	591	69	80	114	145	57	76	25	114	42	54
29	30	398	60	62	---	314	54	76	23	150	31	29
30	120	83	53	57	---	1250	57	46	26	76	29	91
31	109	---	61	53	---	282	---	52	---	55	24	---
TOTAL	2058	2640	3625	5068	3140	8354	4316	2240	1441	1964	1333	2069
MEAN	66.4	88.0	117	163	112	269	144	72.3	48.0	63.4	43.0	69.0
MAX	327	591	436	1220	681	1250	873	236	365	359	312	308
MIN	16	29	41	45	49	78	54	38	23	15	12	21
CFSM	.77	1.01	1.35	1.88	1.29	3.10	1.66	.83	.55	.73	.50	.80
IN.	.88	1.13	1.55	2.17	1.35	3.58	1.85	.96	.62	.84	.57	.89
CAL YR 1976	TOTAL	54061	MEAN 148	MAX 6000	MIN 16	CFSM 1.71	IN 23.17					
WTR YR 1977	TOTAL	38248	MEAN 105	MAX 1250	MIN 12	CFSM 1.21	IN 16.39					

APALACHICOLA RIVER BASIN

02336300 PEACHTREE CREEK AT ATLANTA, GA.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.57	3.73	3.85	3.81	3.87	3.87	4.16	3.92	3.55	4.11	3.39	3.63
2	3.58	3.70	3.80	3.79	3.86	3.83	4.02	3.68	3.53	4.96	3.49	3.52
3	3.57	3.69	3.78	4.22	3.86	3.81	5.21	3.89	3.52	3.65	3.96	3.51
4	3.56	3.68	3.77	3.98	3.86	4.95	4.51	3.70	3.51	3.56	3.61	3.53
5	3.56	3.67	3.76	3.88	3.85	4.01	6.68	3.64	3.51	3.53	3.43	3.55
6	3.59	3.67	4.24	4.24	3.84	4.89	4.31	3.63	3.49	3.52	3.39	3.54
7	5.05	3.68	4.89	5.01	3.83	5.09	4.08	3.66	3.54	3.50	3.36	4.78
8	4.35	3.67	3.99	3.98	3.85	4.01	4.01	3.64	3.47	3.48	3.34	3.82
9	4.52	3.68	3.85	7.34	3.89	3.91	3.91	3.63	3.48	3.43	3.42	3.59
10	3.73	3.69	3.83	6.12	3.90	3.87	3.87	3.61	3.48	3.41	3.42	3.53
11	3.67	3.73	3.85	4.40	3.91	3.86	3.84	3.61	3.45	3.41	3.32	3.51
12	3.67	3.82	4.84	4.22	4.04	5.18	3.83	3.59	3.64	3.40	3.30	3.49
13	3.66	3.70	4.54	4.12	4.47	5.28	3.83	3.58	3.45	3.79	3.66	3.52
14	3.67	3.94	3.92	5.18	3.88	4.04	3.82	3.58	3.48	3.85	3.54	3.67
15	3.66	5.46	4.84	4.30	3.85	---	3.81	3.57	3.46	3.44	3.35	3.77
16	3.66	3.93	4.05	4.06	3.83	---	3.80	3.57	3.45	3.40	---	4.31
17	4.13	3.77	3.90	3.98	3.83	---	3.78	3.56	3.44	3.42	---	3.82
18	3.78	3.73	3.84	4.25	3.82	3.83	3.77	3.90	3.63	3.43	3.60	3.94
19	3.69	3.72	3.82	4.15	3.81	3.81	4.03	3.94	3.62	3.51	3.38	3.92
20	4.25	3.71	4.76	4.07	3.79	4.20	3.77	4.24	3.54	3.36	3.55	3.90
21	3.80	3.73	4.11	4.00	3.78	7.03	3.74	3.71	3.68	3.35	3.43	3.55
22	3.70	3.68	3.88	3.94	3.78	7.03	3.75	3.66	3.97	3.46	3.33	3.49
23	3.68	3.69	3.84	3.88	3.78	4.42	4.31	3.83	4.92	3.42	3.40	3.47
24	3.67	3.69	3.82	4.15	6.09	4.20	5.12	3.79	3.64	3.33	3.36	3.46
25	4.31	3.69	4.85	4.19	4.02	4.10	3.81	3.67	3.53	4.20	3.59	3.74
26	4.09	3.82	5.40	4.03	3.88	4.04	3.75	3.92	3.49	3.76	3.85	4.42
27	3.74	4.43	4.05	3.95	4.89	4.01	3.71	4.48	3.53	3.42	4.69	3.68
28	3.70	6.03	3.92	4.00	4.01	4.15	3.69	3.78	3.45	3.97	3.65	3.67
29	3.68	5.30	3.86	3.92	---	4.80	3.68	3.79	3.43	4.13	3.59	3.49
30	4.13	3.99	3.83	3.89	---	7.92	3.69	3.62	3.46	3.75	3.59	3.86
31	4.11	---	3.88	3.87	---	4.73	---	3.66	---	3.62	3.59	---
MEAN	3.86	3.95	4.11	4.29	4.00	---	4.08	3.74	3.58	3.63	---	3.72
MAX	5.05	6.03	5.40	7.34	6.09	---	6.68	4.48	4.92	4.96	---	4.78
MIN	3.56	3.67	3.76	3.79	3.78	---	3.68	3.56	3.43	3.33	---	3.46

02336300 PEACHTREE CREEK AT ATLANTA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1969 to May 1972, July 1975 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
06...	0810	18	7.3	19.0	17.5	7.0
NOV						
08...	1400	28	7.6	9.0	9.0	7.7
DEC						
15...	1510	342	7.0	10.5	7.5	10.2
JAN						
18...	1245	131	7.1	-6.0	.0	13.5
FEB						
24...	1000	793	7.1	16.0	10.0	10.8
MAR						
29...	0830	235	6.8	18.5	15.0	7.6
MAY						
26...	0700	47	6.8	19.0	19.0	6.3
JUN						
22...	0945	28	7.4	30.5	24.5	6.3
JUL						
26...	0935	62	7.0	26.0	24.0	5.3
AUG						
22...	1445	14	7.4	31.0	29.5	7.5
SEP						
20...	0720	118	7.1	21.5	21.5	8.6

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)
OCT					
06...	144	10	8	1.0	2300
NOV					
08...	135	30	8	1.1	2300
DEC					
15...	57	80	224	4.2	9300
JAN					
18...	132	10	13	1.5	4300
FEB					
24...	53	160	740	7.1	23000
MAR					
29...	94	30	58	5.4	93000
MAY					
26...	125	60	90	1.9	9300
JUN					
22...	133	40	19	1.6	9300
JUL					
26...	99	--	90	4.9	43000
AUG					
22...	169	--	20	1.1	9300
SEP					
20...	74	--	260	4.1	93000

APALACHICOLA RIVER BASIN

02336300 PEACHTREE CREEK AT ATLANTA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	HARD- NESS (CA+MG) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT						
06...	48	47	.32	.07	.06	11
NOV						
08...	46	46	.33	.06	.03	11
DEC						
15...	18	17	.28	.10	.35	5.0
JAN						
18...	42	37	.73	.29	.07	2.0
FEB						
24...	19	14	.46	.21	.85	21
MAR						
29...	30	28	.58	.09	.17	7.0
MAY						
26...	43	43	.42	.06	.16	17
JUN						
22...	43	42	.26	.19	.07	6.0
JUL						
26...	--	--	.43	.22	.21	9.0
AUG						
22...	--	--	.29	.33	.06	3.0
SEP						
20...	--	--	.43	.02	.27	11

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIMENT (MG/L)	SUS- PENDE SEDIMENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
NOV					
28...	1145	498	720	968	27
28...	1900	820	616	1360	35
28...	2230	871	2440	5740	10
29...	0730	499	927	1250	22
JUL					
13...	1015	20	9	.49	100
25...	1530	403	680	740	75
25...	1645	917	1300	3220	61
25...	1850	650	890	1560	73
25...	2000	533	860	1240	76
26...	0730	79	230	49	96

APALACHICOLA RIVER BASIN

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02336502 CHATTAHOOCHEE RIVER AT I-285, AT ATLANTA, GA.

LOCATION.--Lat 33°48'32", long 84°29'43", Cobb-Fulton County line, Hydrologic Unit 03130002, at bridge on Interstate Highway 285, 0.3 mi (0.5 km) upstream from Proctor Creek, 0.5 mi (0.8 km) downstream from Southern Railway bridge, and at Atlanta city limits.

DRAINAGE AREA.--1,600 mi² (4,140 km²).

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

REMARKS.--Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions above station by Gwinnett, DeKalb, and Cobb Counties; return flows above station by Gwinnett and Cobb Counties. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
06...	0910	1180	6.9	17.0	--	6.3
NOV						
08...	1500	1230	7.7	7.5	15.0	9.0
DEC						
15...	0910	2550	6.7	8.0	8.5	10.0
JAN						
18...	1335	4660	6.9	-6.0	5.0	12.5
FEB						
24...	0920	4800	7.1	14.0	11.0	9.8
MAR						
29...	1340	3000	7.0	20.0	15.0	8.0
MAY						
26...	1245	1200	7.0	23.5	21.0	8.6
JUN						
22...	0830	1250	6.9	28.5	23.0	7.7
JUL						
26...	0820	4630	7.0	25.5	19.5	8.0
AUG						
22...	1535	1200	7.0	33.5	29.5	6.8
SEP						
20...	0900	1670	7.1	22.5	21.0	7.2

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)
OCT						
06...	86	5	7	2.0	91	15
NOV						
08...	92	20	8	1.1	<30	16
DEC						
15...	85	30	42	14	33000	21
JAN						
18...	48	8	18	3.8	30	11
FEB						
24...	64	120	360	12	4300	17
MAR						
29...	60	20	40	4.3	15000	14
MAY						
26...	100	10	11	.6	40	16
JUN						
22...	83	20	11	1.6	40	15
JUL						
26...	50	--	48	1.2	43000	--
AUG						
22...	104	--	19	8.6	43000	--
SEP						
20...	74	--	140	1.8	90	--

APALACHICOLA RIVER BASIN

02336502 CHATTAHOOCHEE RIVER AT I-285, AT ATLANTA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	ALKA- LINITY AS CaCO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL RESI- DUE (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT							
06...	17	.37	7	64	1.4	.80	3.0
NOV							
08...	23	.39	4	66	2.1	.51	7.0
DEC							
15...	21	.32	82	146	.72	.73	8.0
JAN							
18...	13	.13	57	--	.44	.22	3.0
FEB							
24...	15	.38	848	1076	.66	.53	11
MAR							
29...	17	.29	64	116	.37	.34	9.0
MAY							
26...	24	.36	14	72	1.7	.26	4.0
JUN							
22...	21	.33	9	66	1.3	.40	3.4
JUL							
26...	--	.35	78	120	.27	.18	3.0
AUG							
22...	--	.44	26	86	3.8	.41	4.0
SEP							
20...	--	.37	92	166	.63	.32	5.0

02337000 SWEETWATER CREEK NEAR AUSTELL, GA.

LOCATION.--Lat 33°46'22", long 84°36'53", Douglas County, Hydrologic Unit 03130002, on right bank 100 ft (30 m) upstream from bridge on Interstate Highway 20, 400 ft (122 m) upstream from Blair Bridge, 3 mi (4.8 km) southeast of Austell, and 5.5 mi (8.8 km) upstream from mouth.
DRAINAGE AREA.--246 mi² (637 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1904 to December 1905, November to December 1913, March 1937 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 1724: 1949(M).

GAGE.--Water-stage recorder. Datum of gage is 857.01 ft (261.22 m) above mean sea level (levels by Corps of Engineers). May 6, 1904 to Dec. 31, 1905, and Nov. 3 to Dec. 27, 1913, nonrecording gage at site 2.5 mi (4.0 km) upstream at different datum.

Mar. 24 to Nov. 29, 1937, nonrecording gage at present site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--41 years (1904-5, 1937-77), 332 ft³/s (9.40 m³/s), 18.33 in/yr (465.6 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft³/s (295 m³/s) Nov. 29, 1948, gage height, 18.4 ft (5.608 m); minimum daily, 2.1 ft³/s (0.059 m³/s) Oct. 9, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 8, 1916 reached a stage of about 20.0 ft (6.10 m), from information by local resident; discharge, 12,600 ft³/s (357 m³/s), from rating extended above 6,500 ft³/s (184 m³/s) on basis of contracted-opening measurement at gage height, 18.2 ft (5.55 m).

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,800 ft³/s (51.0 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)	
Jan. 10	1700	2350	66.6	7.40	2.256	Mar. 31	0700	*7590	215	17.65	5.380
Mar. 13	1700	1800	51.0	6.01	1.832	Apr. 5	1800	2320	65.7	7.30	2.225
Mar. 22	1900	2610	73.9	8.03	2.448						

Minimum discharge, 30 ft³/s (0.85 m³/s) July 25, gage height, 0.50 ft (0.152 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	116	318	245	249	592	5260	441	137	70	535	61
2	54	106	225	215	231	421	2560	424	122	197	219	55
3	52	97	188	226	225	348	1180	306	114	138	112	51
4	49	94	169	279	226	418	1340	268	105	105	91	49
5	47	89	156	279	230	508	2060	265	100	85	79	49
6	47	84	156	267	222	592	1920	237	94	73	83	51
7	63	82	312	492	210	756	1270	219	87	65	91	72
8	164	81	334	446	201	627	692	215	85	60	84	95
9	221	79	281	757	197	474	555	215	83	52	92	92
10	176	80	220	2160	197	392	491	190	77	48	98	84
11	130	81	195	1980	197	365	450	175	74	46	68	71
12	103	85	292	1280	204	469	420	167	79	48	53	63
13	91	89	510	500	410	1550	396	163	75	44	105	57
14	81	98	456	510	406	1590	377	156	71	45	80	58
15	76	189	446	639	330	1090	357	158	67	70	67	56
16	72	193	415	519	267	527	341	148	67	56	65	74
17	80	169	337	374	237	430	316	143	68	50	98	92
18	85	138	281	364	224	386	306	134	116	47	151	85
19	82	123	246	365	221	362	296	129	99	46	103	97
20	77	138	267	321	213	373	293	127	89	44	103	202
21	74	139	333	273	202	632	279	127	81	41	86	159
22	72	133	273	262	197	2360	279	127	117	36	72	151
23	70	124	234	254	198	2370	410	127	206	35	71	101
24	70	119	215	297	662	1780	496	140	102	35	73	81
25	84	112	250	435	729	679	409	171	93	34	157	73
26	139	112	684	474	568	480	319	202	81	92	91	97
27	118	138	602	402	574	415	282	190	78	58	278	133
28	104	239	467	369	736	412	264	161	96	63	156	166
29	91	536	342	348	---	1170	248	179	90	71	103	144
30	94	443	283	285	---	5210	245	215	78	86	81	119
31	133	---	260	264	---	7290	---	162	---	186	68	---
TOTAL	2854	4306	9747	15881	8763	35068	24111	6081	2831	2126	3613	2738
MEAN	92.1	144	314	512	313	1131	804	196	94.4	68.6	117	91.3
MAX	221	536	684	2160	736	7290	5260	441	206	197	535	202
MIN	47	79	156	215	197	348	245	127	67	34	53	49
CFSM	.37	.59	1.28	2.08	1.27	4.60	3.27	.80	.38	.28	.48	.37
IN.	.43	.65	1.47	2.40	1.33	5.30	3.65	.92	.43	.32	.55	.41

CAL YR 1976 TOTAL 147887 MEAN 404 MAX 5920 MIN 47 CFSM 1.64 IN 22.36
WTR YR 1977 TOTAL 118119 MEAN 324 MAX 7290 MIN 34 CFSM 1.32 IN 17.86

APALACHICOLA RIVER BASIN

02337000 SWEETWATER CREEK NEAR AUSTELL, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT 04...	0920	49	7.0	17.0	16.0	7.4
NOV 10...	0900	79	7.2	8.5	6.0	10.3
DEC 13...	0950	538	6.9	6.0	8.0	9.6
JAN 17...	0950	386	6.9	-13.0	.0	12.4
FEB 22...	0945	195	7.1	13.0	10.0	11.0
MAR 29...	0935	713	6.7	19.5	14.0	8.2
MAY 23...	0830	126	7.1	20.0	20.0	7.5
JUN 20...	0850	91	7.2	27.5	24.0	5.8
JUL 25...	0950	30	7.0	29.0	25.0	5.3
AUG 24...	1345	71	7.0	24.0	25.0	7.0
SEP 20...	0940	248	7.1	24.0	22.0	5.7

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 04...	77	50	12	.8	490	24	27	.15	.05	.05	3.0
NOV 10...	80	50	9	1.1	430	22	27	.16	<.02	.04	4.0
DEC 13...	62	60	56	2.2	2300	18	17	.23	.06	.11	7.0
JAN 17...	58	30	20	1.4	230000	15	15	.26	.06	.04	3.0
FEB 22...	63	5	10	1.0	2300	19	22	.26	.02	.04	6.0
MAR 29...	52	50	62	1.8	4300	14	17	.29	<.02	.11	4.0
MAY 23...	67	25	17	.9	2300	20	24	.34	.03	.03	2.0
JUN 20...	81	70	17	.8	4300	21	27	.22	.06	.03	1.5
JUL 25...	96	--	21	.7	90	--	--	.15	.18	.04	4.0
AUG 24...	82	--	24	.7	--	--	--	.35	.06	.05	3.0
SEP 20...	71	--	240	2.1	230000	--	--	.20	.03	.11	4.0

APALACHICOLA RIVER BASIN

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02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.

LOCATION.--Lat 33°39'24", long 84°40'25", Fulton-Douglas County line, Hydrologic Unit 03130002, at downstream end of pier of bridge on State Highways 74 and 92, 1.4 mi (2.3 km) downstream from Deep Creek, 8.5 mi (13.7 km) northwest of Fairburn, and at mile 281.8 (453.4 km).

DRAINAGE AREA.--2,060 mi² (5,340 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 719.07 ft (219.17 m) above mean sea level (levels by Georgia Department of Transportation).

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions and return flows above station regulated by Gwinnett, DeKalb, and Cobb Counties, and by the city of Atlanta.

AVERAGE DISCHARGE.--12 years, 3,885 ft³/s (110 m³/s), 25.61 in/yr (650.5 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,300 ft³/s (971 m³/s) Mar. 16, 1976, gage height, 24.09 ft (7.343 m); minimum daily, 1,000 ft³/s (28.3 m³/s) July 1, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27,100 ft³/s (767 m³/s) Mar. 31, gage height, 21.70 ft (6.614 m); minimum daily, 1,140 ft³/s (32.3 m³/s) July 11.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2670	1440	3340	1780	1980	4130	15800	3120	1510	2320	1850	4800
2	2290	1550	2160	1570	1900	3700	7900	2470	1450	3490	2990	4350
3	1540	1710	1760	1690	1870	3450	9580	5120	2250	1590	2800	2060
4	1230	1630	1700	2090	1840	4350	7470	5510	2380	1320	2790	1190
5	1390	1660	1420	1980	1800	4470	11400	5460	1500	1250	2600	1230
6	1530	1530	1460	1950	1580	3160	9800	5310	1330	1810	3950	2730
7	1870	1270	2850	3820	1580	4510	9210	5160	3980	2450	1500	3150
8	2490	1240	2650	2810	1760	5100	9150	2300	3400	2490	1280	2520
9	2570	1330	2540	3920	2910	5090	9240	1890	2940	2400	2750	1980
10	1790	2000	2470	11700	2270	4970	8870	5360	2960	1480	3240	2820
11	1420	1360	2020	9120	1910	4240	8730	5890	3110	1150	3170	1350
12	1360	1850	1990	6780	1910	4990	8650	6010	1660	1520	3060	1190
13	1720	1550	3010	3010	2530	6840	8700	5830	1550	2380	3410	2190
14	1660	1350	2460	3040	2040	4560	9430	5550	1620	2790	1600	3160
15	1720	3100	2930	3960	2620	5950	9390	2050	2630	2440	1190	3300
16	1730	2790	2950	2650	1990	5470	9320	1510	2620	2380	3480	3570
17	1440	2100	2470	2540	1790	4800	9190	1700	2660	1320	4440	3770
18	1450	2070	2100	4750	2000	9220	8950	1950	2770	1150	4110	1730
19	2250	2140	1620	3050	1950	4730	6940	2310	1590	2570	2540	1380
20	2760	1840	1910	3810	1570	2610	5750	2650	1330	3910	1950	3150
21	2300	1390	3020	2580	1570	3690	9040	3210	1860	3750	1320	2670
22	3440	1340	2390	1940	1590	13500	9170	2090	2550	3400	1170	2560
23	2750	1850	2070	1700	1680	9760	8440	1570	5270	3690	3350	2550
24	1290	1880	2010	1830	4720	9110	9030	2610	3090	1290	4560	2390
25	1400	1550	1920	2330	3730	8140	8910	2130	2700	1210	4570	1370
26	2020	1520	5050	2470	2610	7310	8570	1760	1540	3770	4440	1760
27	1960	1780	2850	2270	2840	2690	8310	2330	1530	3930	6340	1410
28	1960	2620	2680	2270	3330	2150	8250	1700	2320	4050	1770	2060
29	1730	3950	2200	2300	---	5150	8250	1800	2450	4890	1270	1860
30	1750	5620	2030	1760	---	20000	8060	1700	2180	3580	3120	1920
31	1970	---	2060	1690	---	25100	---	1600	---	1860	5000	---
TOTAL	59450	59090	74090	99160	61870	202940	269500	99650	70730	77630	91610	72170
MEAN	1918	1970	2390	3199	2210	6546	8983	3215	2358	2504	2955	2406
MAX	3440	5620	5050	11700	4720	25100	15800	6010	5270	4890	6340	4800
MIN	1230	1270	1420	1570	1570	2150	5750	1510	1330	1150	1170	1190

CAL YR 1976 TOTAL 1637820 MEAN 4475 MAX 28400 MIN 1230 MEAN† 4371 CFSM† 2.12 IN† 28.89
WTR YR 1977 TOTAL 1237890 MEAN 3391 MAX 25100 MIN 1150 MEAN† 3285 CFSM† 1.59 IN† 21.65

† Adjusted for change in contents in Lake Sidney Lanier.

APALACHICOLA RIVER BASIN

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to May 1972, March 1974 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1976 to current year.

pH: July 1976 to current year.

WATER TEMPERATURES: October 1975 to current year.

DISSOLVED OXYGEN: July 1976 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 134 micromhos June 21, 1977; minimum, 33 micromhos July 7, 1976.

pH: Maximum, 7.0 units Feb. 1, 1977; minimum, 5.7 units Aug. 2-6, 1977.

WATER TEMPERATURE: Maximum, 30.0°C July 12, 1977; minimum, 3.0°C Jan. 18, 1977.

DISSOLVED OXYGEN: Maximum, 13.1 mg/L Mar. 24, 1977; minimum, 1.6 mg/L July 26, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 134 micromhos June 21; minimum, 36 micromhos Mar. 30, 31.

pH: Maximum, 7.0 units Feb. 1; minimum 5.7 units Aug. 2-6.

WATER TEMPERATURE: Maximum, 30.0°C July 12; minimum 3.0°C Jan. 18.

DISSOLVED OXYGEN: Maximum, 13.1 mg/L Mar. 24; minimum, 1.6 mg/L July 26.

REMARKS.--Flow regulated by Lake Sidney Lanier. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
04...	1000	1220	6.8	17.0	21.5	5.4
18...	1100	1430	--	--	17.5	5.7
29...	1115	1460	--	--	16.0	--
NOV						
10...	1305	2240	6.5	16.5	12.0	8.6
DEC						
02...	1115	2030	--	--	10.0	9.5
13...	1500	2790	6.5	9.0	10.5	7.6
JAN						
17...	1120	2240	--	-7.5	4.0	11.8
FEB						
15...	1230	2920	--	--	8.5	10.5
22...	1500	1460	--	14.0	10.5	9.7
MAR						
07...	1230	4250	--	--	10.5	--
29...	1030	4560	6.8	21.5	15.5	8.9
APR						
18...	1210	9690	--	--	12.0	10.9
22...	1200	9600	--	--	12.0	11.0
26...	1255	9610	--	--	12.0	10.8
MAY						
03...	1130	5260	6.5	--	18.5	8.6
16...	1215	1540	6.4	--	20.0	6.7
19...	1200	2370	6.5	--	21.5	5.0
23...	1210	1650	7.1	28.0	23.5	5.6
24...	1045	2060	6.5	--	21.0	7.1
JUN						
03...	1100	1800	--	--	25.5	4.5
14...	1200	1360	6.7	--	27.0	--
20...	0945	1350	6.5	29.0	25.0	6.0
29...	1200	2340	6.8	--	19.0	7.6
JUL						
06...	1130	1740	6.9	--	27.0	5.2
12...	1010	1290	6.8	--	27.5	4.0
25...	1045	1080	6.7	30.0	23.5	5.3
AUG						
02...	0930	2960	6.6	--	23.5	6.3
08...	1015	1240	6.5	--	25.5	5.2
16...	0900	2810	6.9	--	24.5	5.7
23...	0755	3190	--	25.5	24.0	5.6
29...	0900	1310	6.6	--	26.0	5.1
SEP						
13...	0915	1950	6.5	--	24.0	5.0
21...	0800	2930	--	19.0	19.0	7.4
26...	0900	2100	6.2	--	24.0	4.8

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPECIFIC CONDUCTANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	TUR- BID- ITY (NTU)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT									
04...	83	25	10	--	--	8.6	23000	--	--
18...	97	--	--	20	13	--	--	90	--
29...	87	--	--	8.0	14	--	--	170	--
NOV									
10...	88	30	18	--	--	6.1	1500	--	--
DEC									
02...	99	--	--	--	--	--	--	--	--
13...	74	55	58	--	--	6.4	2300	--	--
JAN									
17...	77	30	22	--	--	2.4	2300	--	--
FEB									
15...	77	--	--	10	30	--	--	--	2500
22...	109	5	15	--	--	6.0	36	--	--
MAR									
07...	69	--	--	65	32	--	--	--	--
29...	73	20	52	--	--	6.0	9300	--	--
APR									
18...	--	--	--	5.0	6	--	--	--	--
22...	42	--	--	8.0	22	--	--	13000	105
26...	37	--	--	3.0	10	--	--	38	93
MAY									
03...	78	--	--	25	21	--	--	>150	--
16...	97	--	--	10	13	--	--	820	853
19...	98	--	--	30	25	--	--	817000	950
23...	93	7	26	--	--	4.7	750	--	--
24...	74	--	--	4.0	26	--	--	5900	470
JUN									
03...	115	--	--	9.0	30	--	--	1300	2000
14...	118	--	--	3.0	25	--	--	6500	450
20...	105	30	26	--	--	7.8	2300	--	--
29...	65	--	--	3.0	11	--	--	110	1000
JUL									
06...	74	--	--	6.0	17	--	--	1800	580
12...	125	--	--	2.0	25	--	--	841000	1700
25...	100	--	20	--	--	--	210	--	--
AUG									
02...	65	--	--	8.0	15	--	--	>320	77
08...	90	--	--	4.0	15	--	--	8233	340
16...	78	--	--	15	25	--	--	1200	2800
23...	64	--	34	--	--	7.2	43000	--	--
29...	90	--	--	8.0	10	--	--	1500	200
SEP									
13...	90	--	--	20	--	--	--	2500	900
21...	61	--	36	--	--	2.8	4300	--	--
26...	95	--	--	25	30	--	--	9200	3600

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

[illegible]

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL RESI- DUE (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	OIL AND GREASE (MG/L)
OCT										
04...	19	98	1.1	--	--	--	--	.62	14	--
18...	32	--	.91	.99	1.9	2.6	11	.68	1.8	0
29...	7	--	.91	.49	1.4	2.1	9.2	.46	1.0	1
NOV										
10...	30	88	1.1	--	--	--	--	.78	8.0	--
DEC										
13...	78	146	.61	--	--	--	--	.50	1.0	--
JAN										
17...	12	74	.93	--	--	--	--	.33	3.0	--
FEB										
15...	10	--	.03	.23	.26	.53	2.3	.02	1.4	1
22...	20	98	1.9	--	--	--	--	.80	6.0	--
MAR										
07...	119	--	.55	1.2	1.7	2.1	9.2	.45	4.2	1
29...	96	158	.55	--	--	--	--	.48	5.0	--
APR										
18...	38	--	.17	.24	.41	.64	2.8	.12	7.1	0
22...	3	--	.00	.16	.16	.34	1.5	.03	11	1
26...	45	--	.19	.36	.55	.80	3.5	.11	4.2	2
MAY										
03...	80	--	.76	.64	1.4	1.9	8.4	.37	4.3	1
16...	19	--	1.5	.60	2.1	2.8	12	.43	7.1	0
19...	195	--	.96	1.1	2.1	2.7	12	.62	6.5	0
23...	10	70	1.6	--	--	--	--	.59	3.0	--
24...	21	--	.75	.55	1.3	1.8	7.7	.46	6.0	1
JUN										
03...	25	--	1.7	.90	2.6	3.4	15	.60	7.2	1
14...	30	--	2.0	1.0	3.0	3.7	16	.85	5.4	1
20...	43	110	1.2	--	--	--	--	.84	4.5	--
29...	28	--	.38	.31	.69	1.2	5.1	.33	5.4	0
JUL										
06...	34	--	.72	.58	1.3	1.9	8.6	.62	6.1	1
12...	36	--	.22	2.4	2.6	3.5	15	.80	7.2	2
25...	19	82	1.7	--	--	--	--	.51	6.0	--
AUG										
02...	50	--	.46	.48	.94	1.5	6.6	.41	5.1	0
08...	18	--	1.0	.70	1.7	2.6	11	.47	6.1	0
16...	45	--	.61	.79	1.4	2.1	9.1	.64	5.8	0
23...	63	112	.74	--	--	--	--	.62	4.0	--
29...	2	--	1.2	.50	1.7	2.6	11	.35	6.4	0
SEP										
13...	59	--	1.5	.10	1.6	2.5	11	1.9	7.0	8
21...	46	88	.34	--	--	--	--	.35	5.0	--
26...	15	--	1.3	1.1	2.4	3.3	14	.72	9.2	1

APALACHICOLA RIVER BASIN

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT								
04...	--	--	--	810	--	70	--	--
18...	--	--	--	470	--	--	--	--
29...	--	--	--	930	--	--	--	--
NOV								
10...	--	--	--	1600	--	130	--	--
DEC								
13...	--	--	--	3100	--	170	--	--
JAN								
17...	--	--	--	95	--	80	--	--
FEB								
15...	1	0	<10	780	9	--	--	10
22...	--	--	--	930	--	110	--	--
MAR								
07...	1	--	--	--	--	--	.0	--
29...	--	--	--	3000	--	190	--	--
APR								
18...	1	0	10	1900	28	--	.0	20
22...	--	--	--	2600	--	--	--	--
26...	--	--	--	2200	--	--	--	--
MAY								
03...	--	--	--	4900	--	--	--	--
16...	--	--	--	1600	--	--	--	--
19...	--	--	--	7800	--	--	--	--
23...	--	--	--	1100	--	100	--	--
24...	--	--	--	2200	--	--	--	--
JUN								
03...	1	0	40	2400	40	--	.0	80
14...	--	--	--	1900	--	--	--	--
20...	--	--	--	1200	--	110	--	--
29...	--	--	--	2300	--	--	--	--
JUL								
06...	--	--	--	2700	--	--	--	--
12...	--	--	--	2300	--	--	--	--
AUG								
02...	--	--	--	2500	--	--	--	--
08...	--	--	--	1100	--	--	--	--
16...	--	--	--	3100	--	--	--	--
29...	--	--	--	1600	--	--	--	--
SEP								
13...	1	0	20	2000	35	--	<.5	60
26...	--	--	--	1800	--	--	--	--

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	87	57	102	82	99	75	---	---	104	85	81	56
2	91	61	125	87	100	74	---	---	109	89	89	54
3	92	68	105	88	104	82	---	---	118	88	80	60
4	95	86	116	90	111	87	114	82	115	95	79	58
5	106	88	120	86	115	85	98	83	108	92	69	55
6	114	86	109	91	105	90	103	81	118	91	81	69
7	122	84	109	100	119	83	97	65	98	91	75	59
8	99	70	114	95	95	74	83	65	116	87	86	54
9	98	74	120	96	100	64	95	55	89	63	63	51
10	93	75	114	69	99	64	52	45	96	63	59	54
11	97	89	114	74	100	63	52	41	106	90	79	58
12	118	89	102	79	105	72	---	---	108	84	85	54
13	111	80	107	86	82	69	---	---	120	82	68	56
14	117	83	117	91	89	73	102	79	89	84	69	60
15	124	77	96	56	93	68	76	62	92	75	65	56
16	114	77	90	54	78	66	85	69	93	76	59	52
17	115	98	94	63	90	69	82	69	104	85	79	49
18	109	89	105	60	102	72	85	43	105	84	61	56
19	111	61	90	63	96	81	90	58	99	81	66	52
20	90	58	102	76	107	88	72	56	104	79	96	62
21	84	60	106	82	99	71	92	65	92	80	86	62
22	66	54	106	91	86	78	101	68	111	88	60	47
23	70	52	117	79	109	80	102	87	110	96	54	43
24	99	72	99	75	98	71	99	89	99	61	53	39
25	93	86	106	81	106	61	111	90	77	63	55	40
26	114	90	104	73	---	---	95	86	87	65	55	41
27	105	79	99	73	---	---	100	86	88	72	89	55
28	107	78	96	76	---	---	103	88	78	57	91	81
29	105	86	82	72	---	---	94	87	---	---	91	58
30	104	83	84	49	---	---	102	84	---	---	75	36
31	115	82	---	---	106	77	103	92	---	---	42	36
MONTH	124	52	125	49	119	61	114	41	120	57	96	36
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	55	43	84	54	120	101	101	60	84	74	57	47
2	63	53	90	81	116	101	95	62	79	61	56	46
3	59	44	85	51	116	59	90	71	92	58	97	56
4	67	48	67	47	106	58	88	82	92	56	102	89
5	69	45	65	52	101	75	98	83	87	55	92	85
6	54	47	75	52	100	88	100	70	83	48	95	47
7	54	43	65	50	115	47	86	56	91	60	106	53
8	55	42	89	59	88	51	81	62	93	81	103	71
9	54	40	97	80	102	51	84	62	92	57	98	75
10	52	38	99	44	107	51	127	63	77	56	108	59
11	50	37	63	43	99	51	97	93	70	54	102	66
12	53	39	57	43	113	69	127	78	72	55	97	91
13	50	40	59	43	98	76	88	64	68	54	104	63
14	48	40	59	43	119	82	89	65	89	58	81	56
15	52	40	91	55	92	59	87	62	96	80	83	54
16	50	39	100	85	90	56	85	61	102	47	77	57
17	46	38	107	95	87	59	101	64	78	48	84	55
18	46	38	102	86	85	60	104	90	78	55	91	71
19	79	46	104	82	106	76	113	54	83	57	96	84
20	81	44	96	63	106	101	80	48	95	60	103	71
21	47	39	99	59	134	83	75	50	103	87	88	58
22	48	39	94	60	102	69	67	48	102	84	86	59
23	53	45	99	87	79	56	80	48	100	53	81	57
24	73	38	104	71	82	55	92	57	63	49	83	60
25	50	38	100	74	89	59	97	86	65	52	102	77
26	52	38	110	94	98	64	113	54	62	50	112	81
27	53	38	105	81	100	80	67	50	69	49	112	82
28	53	38	110	87	105	62	68	50	96	57	117	77
29	55	38	110	86	93	58	63	46	102	88	117	80
30	55	39	96	84	94	58	62	54	108	50	121	80
31	---	---	102	90	---	---	95	62	62	48	---	---
MONTH	81	37	110	43	134	47	127	46	108	47	121	46

APALACHICOLA RIVER BASIN

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.3	6.2	6.4	6.3	6.6	6.3	---	---	7.0	6.7	6.5	6.5
2	6.3	6.2	6.4	6.3	6.7	6.5	---	---	6.9	6.7	6.5	6.5
3	6.3	6.2	6.3	6.2	6.6	6.5	---	---	6.8	6.7	6.6	6.4
4	6.3	6.2	6.2	6.1	6.7	6.6	6.7	6.7	6.8	6.7	6.6	6.5
5	6.4	6.3	6.2	6.1	6.6	6.6	6.7	6.6	6.8	6.7	6.6	6.5
6	6.4	6.3	6.2	6.1	6.6	6.6	6.7	6.5	6.8	6.7	6.6	6.5
7	6.5	6.3	6.3	6.2	6.6	6.6	6.7	6.5	6.8	6.7	6.6	6.5
8	6.4	6.4	6.3	6.2	6.7	6.6	6.7	6.6	6.8	6.8	6.7	6.6
9	6.5	6.4	6.3	6.2	6.7	6.7	6.7	6.5	6.8	6.7	6.7	6.6
10	6.5	6.4	6.6	6.2	6.7	6.7	6.4	6.3	6.8	6.7	6.7	6.5
11	6.7	6.5	6.6	6.5	6.7	6.7	6.5	6.4	6.8	6.7	6.6	6.5
12	6.8	6.7	6.7	6.6	6.8	6.7	6.6	6.5	6.8	6.7	6.6	6.5
13	6.8	6.8	6.7	6.7	6.7	6.7	6.7	6.5	6.7	6.6	6.5	6.4
14	6.8	6.6	6.7	6.6	6.8	6.7	6.7	6.6	6.7	6.6	6.5	6.5
15	6.7	6.6	6.7	6.5	6.7	6.5	6.7	6.6	6.8	6.7	6.5	6.4
16	6.7	6.6	6.6	6.5	6.5	6.5	6.7	6.6	6.8	6.7	6.5	6.5
17	6.6	6.6	6.5	6.4	6.5	6.5	6.9	6.6	6.9	6.8	6.6	6.5
18	6.6	6.5	6.4	6.3	6.5	6.4	6.6	6.5	6.9	6.8	6.5	6.5
19	6.6	6.4	6.4	6.3	6.5	6.4	6.6	6.5	6.9	6.8	6.5	6.5
20	6.4	6.3	6.5	6.4	6.6	6.4	6.7	6.5	6.9	6.8	6.5	6.5
21	6.5	6.4	6.5	6.4	6.6	6.5	6.6	6.5	6.9	6.8	6.5	6.3
22	6.3	6.2	6.6	6.4	6.7	6.6	6.7	6.6	6.9	6.8	6.3	6.2
23	6.4	6.2	6.6	6.3	6.7	6.6	6.6	6.6	6.8	6.7	6.4	6.2
24	6.6	6.3	6.6	6.3	6.8	6.6	6.7	6.6	6.8	6.4	6.4	6.3
25	6.6	6.5	6.6	6.5	6.8	6.6	6.7	6.6	6.6	6.4	6.4	6.3
26	6.7	6.4	6.6	6.6	---	---	6.7	6.6	6.6	6.5	6.5	6.4
27	6.6	6.5	6.7	6.6	---	---	6.8	6.6	6.5	6.5	6.5	6.5
28	6.6	6.5	6.7	6.6	---	---	6.7	6.6	6.5	6.4	6.6	6.4
29	6.6	6.5	6.6	6.6	---	---	6.7	6.6	---	---	6.5	6.2
30	6.5	6.4	6.7	6.6	---	---	6.7	6.7	---	---	6.4	5.8
31	6.5	6.4	---	---	6.7	6.4	6.8	6.7	---	---	5.9	5.8
MONTH	6.8	6.2	6.7	6.1	6.8	6.3	6.9	6.3	7.0	6.4	6.7	5.8
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.1	5.9	6.5	6.4	6.4	6.3	6.3	6.1	6.0	5.9	6.0	5.9
2	6.3	6.1	6.5	6.4	6.4	6.3	6.3	6.1	5.9	5.7	6.0	5.9
3	6.4	6.2	6.5	6.4	6.3	6.3	6.3	6.2	5.7	5.7	6.0	5.9
4	6.3	6.2	6.5	6.4	6.3	6.3	6.2	6.2	5.8	5.7	6.0	6.0
5	6.4	6.1	6.5	6.3	6.3	6.3	6.3	6.2	5.7	5.7	6.1	6.0
6	6.3	6.2	6.3	6.2	6.3	6.3	6.3	6.2	5.8	5.7	6.1	5.9
7	6.4	6.3	6.3	6.3	6.3	6.1	6.2	6.1	6.2	6.2	6.1	5.9
8	6.4	6.3	6.3	6.3	6.2	6.1	6.2	6.0	6.2	6.1	6.1	6.0
9	6.4	6.3	6.4	6.3	6.3	6.2	6.2	6.1	6.2	5.9	6.0	6.0
10	6.4	6.3	6.4	6.3	6.3	6.3	6.6	6.2	6.1	6.0	6.1	6.0
11	6.4	6.4	6.4	6.3	6.4	6.3	6.2	6.1	6.0	6.0	6.1	6.1
12	6.4	6.4	6.4	6.3	6.3	6.2	6.2	6.1	6.0	6.0	6.1	6.0
13	6.4	6.3	6.4	6.4	6.2	6.1	6.1	6.1	6.0	5.9	6.0	5.9
14	6.4	6.3	6.4	6.3	6.2	6.0	6.1	6.1	6.0	5.9	5.9	5.8
15	6.5	6.4	6.4	6.4	6.3	6.0	6.1	6.1	6.0	5.8	6.0	5.8
16	6.5	6.4	6.4	6.3	6.3	6.2	6.1	6.0	6.2	5.8	6.0	6.0
17	6.5	6.4	6.4	6.3	6.3	6.2	6.1	6.0	5.9	5.7	6.0	6.0
18	6.5	6.4	6.4	6.4	6.2	6.2	6.1	6.0	6.1	6.0	6.0	5.9
19	6.7	6.4	6.4	6.3	6.3	6.2	6.1	6.0	6.1	6.0	6.1	5.9
20	6.5	6.4	6.4	6.2	6.3	6.2	6.1	6.0	6.1	6.0	6.1	6.0
21	6.5	6.4	6.3	6.1	6.3	6.1	6.1	6.0	6.1	6.0	6.1	5.9
22	6.5	6.4	6.3	6.3	6.1	6.1	6.1	6.0	6.1	5.9	6.1	5.9
23	6.5	6.4	6.3	6.2	6.2	6.0	6.1	6.0	6.1	6.0	6.0	5.9
24	6.6	6.3	6.4	6.2	6.2	6.1	6.1	6.0	6.0	5.9	6.0	5.9
25	6.5	6.4	6.4	6.3	6.2	6.1	6.0	5.9	6.0	6.0	6.0	6.0
26	6.5	6.3	6.4	6.3	6.3	6.2	6.1	5.9	6.0	6.0	6.1	5.9
27	6.4	6.3	6.3	6.2	6.3	6.1	6.1	6.0	6.0	5.9	6.1	5.9
28	6.4	6.3	6.3	6.2	6.3	6.2	6.1	6.0	6.1	6.0	6.1	6.0
29	6.4	6.4	6.3	6.3	6.2	6.1	6.1	5.9	6.1	6.0	6.1	6.0
30	6.4	6.3	6.3	6.2	6.2	6.1	6.1	6.0	6.0	5.8	6.2	6.1
31	---	---	6.4	6.2	---	---	6.2	6.0	6.0	5.9	---	---
MONTH	6.7	5.9	6.5	6.1	6.4	6.0	6.6	5.9	6.2	5.7	6.2	5.8

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	22.5	18.5	16.5	14.0	13.0	11.0	---	---	7.0	4.5	11.5	9.0
2	21.5	18.0	17.0	14.5	10.5	9.0	---	---	7.5	5.0	11.0	8.0
3	22.0	19.0	15.5	14.0	11.0	9.5	---	---	7.0	5.5	10.5	9.0
4	23.5	21.0	15.5	14.0	10.5	8.5	8.0	6.5	8.5	6.0	12.0	10.0
5	23.5	23.0	15.0	13.0	11.0	9.0	9.0	7.5	8.5	7.5	12.0	10.0
6	24.0	21.5	15.0	13.0	11.0	10.5	9.0	7.5	8.0	6.5	11.5	11.0
7	23.0	21.0	15.5	13.0	11.0	9.0	8.0	6.5	7.0	6.0	12.5	10.5
8	22.0	20.0	14.5	12.5	10.0	9.0	7.0	6.5	8.5	6.5	11.5	10.0
9	21.0	18.5	14.5	12.5	11.0	8.5	8.0	5.0	8.0	5.5	11.0	9.5
10	19.0	16.5	14.0	12.0	11.0	8.5	5.0	4.5	9.5	6.0	10.5	10.0
11	19.0	17.0	17.0	13.5	11.5	9.5	4.5	3.5	9.5	8.0	11.0	10.5
12	20.0	18.0	17.0	13.5	12.0	10.5	5.0	3.5	9.5	7.5	13.0	10.5
13	19.5	17.5	15.0	14.0	11.5	10.5	6.5	5.0	9.5	8.5	14.5	13.0
14	19.5	18.0	14.5	13.0	10.5	9.0	7.0	6.0	10.0	8.0	15.0	13.5
15	19.0	17.5	13.5	10.0	9.5	9.0	6.5	5.5	10.0	8.5	14.5	13.5
16	19.5	18.0	12.5	10.0	10.5	9.0	6.5	5.0	9.0	7.5	13.5	12.5
17	20.0	18.5	14.5	12.0	10.5	9.0	6.5	3.5	8.5	7.0	13.5	12.0
18	18.5	17.5	16.0	13.5	11.5	9.5	4.5	3.0	9.0	7.0	13.5	12.0
19	18.5	15.5	16.0	13.5	13.0	10.0	5.0	4.0	10.0	8.0	13.0	12.0
20	17.0	14.5	16.0	15.0	13.0	12.0	4.5	3.5	10.0	8.5	15.5	12.5
21	17.5	16.0	16.0	14.5	11.5	9.0	6.0	4.5	9.5	7.5	15.5	12.5
22	16.0	14.5	14.5	13.0	9.0	7.5	6.0	4.0	10.5	8.0	12.5	11.5
23	17.0	15.5	14.0	11.5	9.0	7.5	6.5	5.0	11.0	9.5	12.0	11.0
24	18.5	17.0	13.0	11.0	9.5	7.0	6.0	5.5	11.0	10.0	11.5	10.0
25	18.5	18.5	14.0	12.5	9.0	7.0	6.5	5.5	11.5	10.0	11.5	10.5
26	19.0	17.5	13.5	11.5	---	---	6.5	5.0	13.0	11.0	12.0	10.5
27	18.0	16.0	14.5	13.5	---	---	8.5	6.5	14.0	12.5	15.5	11.5
28	17.0	16.0	15.5	14.5	---	---	8.5	8.0	13.0	11.0	16.5	15.0
29	17.5	15.5	14.5	12.0	---	---	7.5	5.5	---	---	16.5	15.5
30	17.5	16.0	12.0	9.5	---	---	6.5	4.5	---	---	16.0	15.5
31	16.0	15.5	---	---	9.5	7.0	7.0	6.0	---	---	17.0	16.0
MONTH	24.0	14.5	17.0	9.5	13.0	7.0	9.0	3.0	14.0	4.5	17.0	8.0
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.5	16.5	18.0	14.0	28.0	25.5	25.5	20.5	26.5	24.0	19.0	17.0
2	16.5	15.5	20.0	18.0	26.5	25.5	25.5	20.5	26.0	21.5	19.0	17.0
3	15.5	13.0	20.0	15.0	26.5	21.0	26.0	24.0	23.0	18.5	22.5	18.0
4	16.5	13.5	17.0	14.5	24.0	20.0	27.5	24.5	23.5	17.5	24.5	22.5
5	16.0	14.5	17.0	15.0	25.5	21.5	29.0	26.5	24.0	18.0	24.0	22.0
6	14.5	12.5	17.0	15.0	27.0	23.5	29.0	26.5	23.0	18.0	24.5	16.5
7	13.0	11.5	17.0	15.5	26.5	17.0	28.0	20.5	25.5	19.0	22.0	17.0
8	13.0	11.5	21.0	16.0	19.5	17.0	24.5	21.0	27.5	24.5	22.5	20.0
9	13.0	11.5	23.0	21.0	20.5	17.5	25.0	20.5	26.5	22.0	23.0	20.0
10	12.5	11.5	22.5	14.0	20.5	17.0	27.0	23.0	21.5	18.5	24.5	19.5
11	13.5	12.0	15.0	13.0	19.5	17.0	28.0	25.0	21.5	18.5	23.5	20.5
12	14.0	12.5	15.0	13.5	23.5	18.5	30.0	27.5	22.0	18.5	24.5	21.5
13	14.0	12.5	15.0	13.5	25.0	23.0	27.0	20.5	21.0	18.0	24.5	22.0
14	13.5	12.0	15.5	13.5	28.5	25.0	25.5	21.5	23.5	20.5	22.0	18.0
15	13.5	12.0	19.5	14.5	25.0	19.0	24.5	20.5	26.0	23.0	21.0	17.5
16	14.0	12.0	22.0	18.5	22.5	17.5	24.5	20.0	27.0	18.0	21.0	19.0
17	13.5	12.0	23.5	21.0	23.0	18.0	26.5	22.0	21.0	18.0	20.0	18.0
18	13.5	12.0	23.0	21.5	22.0	17.5	27.5	25.0	21.5	19.0	22.0	19.5
19	17.5	12.5	24.5	21.5	24.5	20.5	28.0	19.0	23.0	19.0	23.5	22.0
20	17.5	13.5	24.5	20.5	26.5	24.0	20.5	17.5	22.0	19.5	23.0	20.5
21	13.5	12.0	22.5	19.5	28.0	25.0	19.5	18.0	24.0	22.0	22.0	18.5
22	13.0	12.0	22.5	19.5	25.0	21.0	20.0	18.0	25.0	23.0	21.5	18.5
23	14.5	12.0	24.0	22.5	23.5	21.0	20.0	17.5	27.0	19.0	21.5	18.5
24	16.0	13.0	23.5	20.5	23.0	18.0	23.0	18.0	20.0	17.5	22.0	18.5
25	14.0	12.5	20.5	19.5	23.5	19.5	25.0	22.0	19.0	18.0	24.0	21.5
26	13.5	12.0	22.0	19.0	26.0	21.5	26.0	19.5	19.0	18.5	24.5	22.5
27	13.0	11.5	22.5	20.5	27.5	25.0	19.5	18.5	21.0	19.0	25.5	23.5
28	13.5	12.0	23.5	22.5	27.5	23.0	19.0	17.5	25.0	20.0	25.5	21.0
29	14.0	12.5	24.0	22.5	24.0	19.0	18.0	17.0	27.5	24.5	23.5	19.5
30	14.0	12.0	26.0	23.5	24.5	21.0	19.5	17.0	28.5	18.0	21.0	19.5
31	---	---	26.5	25.0	---	---	23.5	19.5	19.5	17.5	---	---
MONTH	17.5	11.5	26.5	13.0	28.5	17.0	30.0	17.0	28.5	17.5	25.5	16.5

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.6	5.2	5.6	4.4	9.5	8.8	---	---	11.3	10.4	9.9	8.9
2	7.5	5.5	5.0	4.4	9.8	9.3	---	---	11.6	10.6	10.7	9.4
3	7.4	5.3	4.5	4.5	9.5	8.5	---	---	11.6	10.8	11.0	10.4
4	5.8	4.5	4.5	4.5	9.8	9.2	---	---	11.8	10.6	11.4	9.0
5	4.5	3.9	5.0	4.6	10.3	9.4	---	---	11.4	10.7	10.9	9.8
6	4.2	3.3	6.8	5.4	10.1	9.6	9.8	9.4	11.2	10.8	10.3	9.5
7	4.0	3.2	8.7	6.8	10.3	9.3	10.4	9.3	11.8	11.3	10.7	9.6
8	4.7	3.8	9.0	8.1	10.0	9.2	10.3	9.9	11.9	11.1	11.2	10.1
9	5.5	4.7	8.7	8.2	10.5	9.3	10.5	9.5	12.7	11.9	11.4	10.5
10	6.4	5.6	9.3	8.3	10.5	8.8	11.1	10.7	12.8	10.7	11.0	10.3
11	7.1	6.5	8.3	6.5	10.7	9.1	11.4	11.0	11.1	10.2	10.7	9.1
12	6.7	5.8	8.0	6.3	9.5	7.6	11.4	10.7	10.9	9.5	10.7	9.2
13	7.2	5.7	---	---	9.8	7.9	10.9	9.9	10.4	8.5	9.8	8.8
14	6.3	4.6	---	---	8.6	8.1	11.3	10.2	9.9	9.5	9.8	8.6
15	5.8	3.9	---	---	9.7	8.0	11.0	10.6	10.6	9.7	9.4	9.1
16	4.6	3.6	---	---	9.0	8.1	11.1	10.5	10.9	10.1	9.8	9.2
17	5.1	3.7	---	---	8.9	8.2	12.2	11.1	11.3	10.0	10.9	9.7
18	5.5	4.9	---	---	---	---	12.5	11.6	11.4	10.7	11.4	9.8
19	7.4	4.4	---	---	---	---	11.8	10.8	11.4	10.0	10.6	9.7
20	7.7	5.3	---	---	8.9	8.4	12.2	11.5	10.4	9.5	10.3	6.7
21	6.4	4.8	---	---	9.6	8.2	11.4	10.9	10.4	9.5	7.5	6.5
22	7.8	6.7	---	---	9.3	9.0	11.6	10.8	10.0	8.9	10.3	8.3
23	7.0	5.6	---	---	---	---	11.2	10.7	9.5	8.2	12.2	10.1
24	5.7	4.3	8.7	8.1	---	---	11.2	10.8	10.8	8.4	13.1	11.9
25	5.8	4.5	9.2	8.1	---	---	11.3	11.0	10.3	9.4	13.0	12.0
26	6.0	4.5	9.7	9.1	---	---	11.7	11.0	10.1	8.5	12.6	11.3
27	6.2	5.3	10.2	8.5	---	---	11.3	10.3	9.5	7.5	11.5	9.0
28	6.1	5.2	9.0	7.1	---	---	10.7	10.3	8.7	8.1	8.7	7.8
29	6.7	6.2	8.2	7.9	---	---	11.1	10.7	---	---	9.5	8.5
30	7.3	5.9	9.4	8.7	---	---	11.4	10.6	---	---	9.4	3.9
31	6.5	4.9	---	---	---	---	10.9	10.4	---	---	7.1	5.1
MONTH	7.8	3.2	10.2	4.4	10.7	7.6	12.5	9.3	12.8	7.5	13.1	3.9
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.6	7.2	9.7	7.6	4.9	4.4	7.8	5.3	5.7	5.1	8.5	7.8
2	8.9	8.6	7.5	7.2	5.0	4.2	7.4	5.0	6.6	5.3	8.5	7.8
3	9.7	8.7	9.9	7.7	8.1	4.4	6.1	5.5	7.2	4.9	8.1	5.7
4	9.4	8.2	10.0	8.7	8.5	5.9	5.5	5.1	8.0	4.3	5.8	5.4
5	9.0	7.2	10.0	8.6	7.6	5.7	4.9	4.2	8.0	5.6	6.0	5.6
6	10.8	8.8	9.8	8.8	5.9	5.0	5.5	4.1	8.0	6.1	8.1	5.3
7	11.6	10.3	9.6	8.7	8.3	4.6	7.5	4.9	7.8	5.5	8.0	4.6
8	11.6	10.4	9.0	7.0	8.3	6.7	7.3	6.0	5.5	4.9	6.6	4.5
9	11.6	10.3	6.9	6.2	8.3	6.3	7.5	5.5	7.0	5.2	6.6	5.3
10	11.7	10.1	10.2	6.6	8.5	6.3	7.0	4.0	7.9	6.5	7.4	5.4
11	11.7	10.3	10.3	9.3	8.6	6.9	5.3	4.7	8.0	6.8	6.9	5.5
12	11.7	9.8	10.3	9.6	8.0	5.4	5.3	3.7	7.9	6.8	5.7	5.0
13	10.6	9.7	10.3	9.5	6.1	5.3	7.5	5.4	8.0	7.1	6.5	4.5
14	10.8	10.3	10.3	9.4	5.6	4.3	7.2	5.1	7.4	5.6	7.4	6.2
15	10.8	10.2	9.8	7.3	8.4	5.9	7.7	5.9	5.7	4.9	7.6	6.4
16	10.9	10.3	7.4	6.6	8.9	6.6	7.9	6.0	8.0	4.7	7.3	5.5
17	11.0	10.4	6.6	6.2	9.0	6.7	7.3	5.2	8.0	6.7	7.3	5.9
18	11.0	10.4	7.2	6.2	9.0	7.1	5.3	5.0	7.5	5.9	6.8	5.5
19	10.7	8.1	7.1	4.2	8.1	6.3	7.9	4.2	7.9	5.7	5.5	5.1
20	10.6	7.9	8.5	5.3	6.5	5.8	8.6	7.2	7.5	6.1	6.3	4.8
21	10.8	10.3	8.8	3.8	6.8	4.4	8.5	7.3	6.1	5.2	7.4	5.9
22	11.0	10.2	8.8	6.4	8.6	6.7	8.3	7.2	5.9	4.5	7.6	6.0
23	10.6	9.8	6.4	5.1	7.8	5.5	8.4	6.4	8.2	3.9	7.7	6.3
24	10.4	7.1	7.4	3.5	8.7	6.8	8.1	5.7	8.7	7.9	7.7	5.9
25	10.6	9.8	7.2	6.2	8.3	6.0	5.9	5.1	8.5	7.7	6.4	5.1
26	10.7	9.9	6.9	6.0	7.7	5.6	7.3	1.6	8.4	8.1	5.3	3.8
27	10.8	9.9	6.2	5.4	5.5	4.7	7.9	6.9	8.2	5.5	4.9	4.3
28	10.7	9.9	5.7	5.5	7.1	4.6	7.9	6.7	7.8	5.8	6.2	3.7
29	10.6	9.7	5.6	4.7	8.3	5.7	7.7	6.8	5.7	4.9	6.5	4.7
30	10.7	9.3	5.4	4.9	7.6	5.5	7.6	6.8	8.3	4.4	6.8	5.3
31	---	---	4.9	4.7	---	---	7.2	5.5	8.4	7.6	---	---
MONTH	11.7	7.1	10.3	3.5	9.0	4.2	8.6	1.6	8.7	3.9	8.5	3.7

APALACHICOLA RIVER BASIN

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02337438 DOG RIVER NEAR FAIRPLAY, GA.

LOCATION.--Lat 33°37'20", long 84°47'35", Douglas County, Hydrologic Unit 03130002, at bridge on State Highway 166, 2.3 mi (3.7 km) upstream from mouth, and 4.2 mi (6.8 km) east of Fairplay.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT 04...	1050	27	7.1	18.0	16.0	9.7
NOV 10...	1240	34	7.0	18.0	7.5	12.0
DEC 13...	1420	123	7.1	10.0	8.5	10.3
JAN 17...	1200	73	7.2	-6.5	.0	13.6
FEB 22...	1415	68	7.2	21.0	11.0	11.5
MAR 29...	1110	252	7.0	19.5	14.0	10.4
MAY 23...	1235	61	7.1	28.0	20.5	8.1
JUN 20...	1045	44	7.1	30.5	24.0	8.1
JUL 25...	1120	28	7.2	31.0	26.0	7.8
AUG 23...	0910	25	6.3	28.5	23.0	7.9
SEP 20...	1500	49	6.9	28.0	27.0	7.6

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)	ALKA- LITY AS CaCO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 04...	31	20	7	.1	36	8	12	.09	2	.02	<.02	3.0
NOV 10...	33	30	5	.3	430	10	11	.06	<1	<.02	<.02	2.0
DEC 13...	37	90	44	.9	2300	10	9	.15	26	<.02	.05	1.0
JAN 17...	35	20	10	.2	91	9	9	.21	--	.02	<.02	1.0
FEB 22...	33	5	6	.2	36	9	10	.17	--	<.02	<.02	5.0
MAR 29...	32	50	38	1.0	930	8	8	.18	35	<.02	.04	2.0
MAY 23...	29	20	15	.5	430	8	9	.22	9	<.02	.02	1.0
JUN 20...	34	60	14	.6	430	8	10	.17	8	<.02	<.02	1.5
JUL 25...	33	--	19	.5	90	--	--	.14	6	<.02	<.02	1.0
AUG 23...	40	--	20	1.9	120	--	--	.23	5	<.02	<.02	<1.0
SEP 20...	35	--	210	1.2	6400	--	--	.19	80	<.02	.12	7.0

02337500 SNAKE CREEK NEAR WHITESBURG, GA.

LOCATION.--Lat 33°31'46", long 84°55'42", Carroll County, Hydrologic Unit 03130002, at downstream end of left bank pier of highway bridge, at Banning Mills, 1.5 mi (2.4 km) north of State Highway 16, 3 mi (4.8 km) northwest of Whitesburg, 4 mi (6.4 km) downstream from Little Snake Creek, and 7 mi (11.3 km) upstream from mouth.

DRAINAGE AREA.--37 mi² (96 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1954 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 850 ft (259 m), from topographic map.

REMARKS.--Records fair except those for period of no gage-height record, Aug. 3 to Sept. 2, which are poor.

AVERAGE DISCHARGE.--23 years, 58.3 ft³/s (1.65 m³/s), 21.40 in/yr (543.6 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,690 ft³/s (218 m³/s) Feb. 25, 1961, gage height, 14.40 ft (4.389 m); minimum, 2.3 ft³/s (0.065 m³/s) Oct. 7, 1954, gage height, 1.56 ft (0.475 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28.3 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)	
Jan. 9	1915	1390	39.4	6.25	1.905	Mar. 21	2315	1060	30.0	5.35	1.631
Mar. 12	2115	1210	34.3	5.83	1.777	Mar. 30	0100	*3320	94.0	9.57	2.917

Minimum daily discharge, 14 ft³/s (0.40 m³/s) Sept. 1-4, 12, 15.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	38	48	41	42	56	199	63	52	32	24	14
2	24	30	40	38	41	51	141	60	43	45	22	14
3	22	28	36	48	41	48	144	60	41	31	35	14
4	20	27	32	48	45	88	143	60	39	28	28	14
5	20	25	30	43	43	72	272	59	38	27	25	15
6	20	25	34	48	42	107	135	58	36	26	23	16
7	41	25	77	97	42	106	114	60	37	24	21	20
8	89	23	58	62	41	79	103	56	34	23	18	18
9	42	24	42	381	40	66	96	50	33	23	21	18
10	24	26	38	248	41	61	89	47	31	22	18	16
11	23	27	37	101	41	61	85	46	32	21	16	15
12	24	34	85	90	42	348	82	45	31	21	20	14
13	22	31	164	77	55	315	80	46	30	20	25	15
14	22	34	81	86	44	125	78	44	29	20	50	15
15	19	210	85	74	39	91	75	43	30	19	18	14
16	19	41	67	64	38	78	73	42	30	18	20	19
17	30	33	55	59	37	71	71	41	32	18	40	31
18	23	28	49	56	37	67	70	41	40	17	100	25
19	21	26	43	61	37	59	69	40	41	19	60	29
20	23	26	97	55	36	66	66	40	33	18	40	33
21	21	27	83	48	36	221	65	48	31	17	25	21
22	21	25	59	45	35	332	83	64	43	24	22	18
23	20	25	53	43	36	123	134	50	64	28	20	17
24	21	27	48	70	110	93	90	60	35	20	19	17
25	81	28	167	62	62	81	77	57	38	31	25	17
26	93	33	267	53	51	74	70	50	33	30	100	24
27	32	45	90	50	79	71	67	49	32	25	500	25
28	26	270	66	49	67	77	64	47	30	24	40	23
29	24	233	53	45	---	372	62	44	29	41	25	19
30	55	71	45	43	---	964	62	42	28	36	16	19
31	67	---	49	43	---	341	---	48	---	27	15	---
TOTAL	1015	1545	2178	2328	1300	4764	2959	1560	1075	775	1431	569
MEAN	32.7	51.5	70.3	75.1	46.4	154	98.6	50.3	35.8	25.0	46.2	19.0
MAX	93	270	267	381	110	964	272	64	64	45	500	33
MIN	19	23	30	38	35	48	62	40	28	17	15	14
CFSM	.88	1.39	1.90	2.03	1.25	4.16	2.67	1.36	.97	.68	1.25	.51
IN.	1.02	1.55	2.19	2.34	1.31	4.79	2.97	1.57	1.08	.78	1.44	.57
CAL YR 1976	TOTAL	26949	MEAN 73.6	MAX 2100	MIN 19	CFSM 1.99	IN 27.09					
WTR YR 1977	TOTAL	21499	MEAN 58.9	MAX 964	MIN 14	CFSM 1.59	IN 21.61					

APALACHICOLA RIVER BASIN

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02337500 SNAKE CREEK NEAR WHITESBURG, GA.--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

				INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)		
	DATE	TIME								
	AUG 30...	0815		16	40	6.4	24.0	8.4		
	COLOR (PLAT- INUM- COBALT UNITS)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)
AUG 30...	35	7	0	1.8	.7	3.0	1.1	11	0	9
	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SiO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITU- ENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (NO3) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
AUG 30...	1.7	2.6	.0	10	64	29	2.76	.31	1.4	.02
	DIS- SOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SUS- PENDED KJEL. NITRO- GEN (N) (MG/L)
AUG 30...	.07	.33	.33	.39	.39	.50	.38	.15	.77	.23
	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)
AUG 30...	.54	1.1	4.9	.05	.03	.04	.04	.12	50	0
	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
AUG 30...	0	0	2	10	0	30	.0	0	10	7.2

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.

LOCATION.--Lat 33°28'37", long 84°54'04", Carroll-Coweta County line, Hydrologic Unit 03130002, at downstream end of right bank pier of bridge on State Highway 16, 0.5 mi (0.8 km) upstream from Central of Georgia Railroad bridge, 1.2 mi (1.9 km) south-east of Whitesburg, 1.5 mi (2.4 km) downstream from Cedar Creek, 2.0 mi (3.2 km) downstream from Snake Creek, and at mile 259.8 (418.0 km).

DRAINAGE AREA.--2,430 mi² (6,290 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to June 1954, January 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 682.06 ft (207.89 m) above mean sea level. Prior to May 1, 1949, nonrecording gage at site 1.0 mi (1.6 km) upstream at datum 2.00 ft (0.61 m) higher. May 1, 1949 to June 30, 1954, nonrecording gage at present site at datum 2.00 ft (0.61 m) higher.

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions and return flows above station regulated by Gwinnett, DeKalb, and Cobb Counties, and by the city of Atlanta.

AVERAGE DISCHARGE.--27 years, 4,044 ft³/s (115 m³/s), 22.60 in/yr (574.0 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,000 ft³/s (1,670 m³/s) Jan. 10, 1946, gage height, 25.1 ft (7.65 m), site and datum then in use, from graph based on gage readings, from rating extended above 30,000 ft³/s (850 m³/s) on basis of velocity-area and channel-capacity studies; minimum daily, 468 ft³/s (13.3 m³/s) Oct. 26, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 31,100 ft³/s (881 m³/s) Mar. 31, gage height, 19.56 ft (5.962 m); minimum daily, 1,300 ft³/s (36.8 m³/s) July 18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2970	1780	4770	2510	2470	4530	27000	5350	1790	2470	2030	4830
2	2750	1560	2800	2010	2450	4480	11500	3100	1700	3430	3070	4860
3	2040	1920	2060	2050	2340	4190	9800	4540	1850	2260	3340	3380
4	1420	1810	1890	2550	2330	4680	10300	5840	2660	1560	3190	1510
5	1480	1760	1810	2620	2350	5950	12500	5950	2220	1450	2990	1460
6	1700	1770	1700	2490	2070	4280	11900	5710	1520	1790	3620	1930
7	1830	1430	2650	4160	2030	5640	10200	5700	2640	2440	2720	3950
8	2890	1380	3330	3970	2040	5850	10000	4040	4170	2560	1490	3060
9	2930	1390	2610	4000	3040	6170	9960	2930	3010	2620	2460	2550
10	2430	1840	2910	15400	3190	5750	9620	4450	2990	2030	3430	2660
11	1700	1760	2580	10600	2360	4860	9350	6160	3250	1340	3480	2250
12	1580	1860	2290	8430	2350	5660	9300	6300	2510	1330	3310	1440
13	1920	1800	3760	4440	2840	10100	9110	6180	1700	2460	3540	1910
14	1830	1500	3110	3560	2800	5980	9970	6110	1460	2800	2590	3300
15	1950	2760	3200	5040	2620	6620	9950	3960	2600	2500	1520	3440
16	1960	3620	3750	3680	2400	6310	9840	2900	2730	2300	2640	3760
17	1600	2970	3020	3070	2000	5420	9670	2870	2810	1700	4590	4130
18	1720	1920	2760	4710	2300	6050	9730	2860	2820	1300	4670	2770
19	1740	2590	2080	4180	2200	5530	8660	2940	2180	2500	3140	1690
20	3270	2170	2110	4320	1900	3990	5370	2880	1530	4000	2620	3070
21	2540	1700	3430	3470	1900	3370	9060	3460	1510	3800	1720	3120
22	3510	1460	3110	2750	1900	16700	9680	3280	2700	3600	1450	2930
23	3400	1510	2510	2250	2000	12000	9720	2820	4780	4000	2560	2770
24	1830	2230	2490	2380	4550	10100	9150	2870	3720	1500	4470	2810
25	1450	1750	2350	2990	5270	9140	9740	3130	2910	2000	4810	1960
26	2270	1590	6100	3200	3570	8280	8990	2800	2120	3500	4750	1800
27	2150	1880	4190	2950	3340	4840	8740	2900	1690	4000	6900	1910
28	2200	2620	3460	2860	4310	2820	8600	2910	1960	4500	3410	2220
29	1940	4860	2830	2940	---	5330	8650	2790	3000	5400	1650	2200
30	1930	5010	2600	2420	---	23400	8630	2300	2360	4870	3000	2130
31	2350	---	2470	2180	---	29900	---	1870	---	2800	4860	---
TOTAL	67280	64200	90730	124180	74920	237920	304690	121900	74890	84810	100020	81800
MEAN	2170	2140	2927	4006	2676	7675	10160	3932	2496	2736	3226	2727
MAX	3510	5010	6100	15400	5270	29900	27000	6300	4780	5400	6900	4860
MIN	1420	1380	1700	2010	1900	2820	5370	1870	1460	1300	1450	1440

CAL YR 1976 TOTAL 1878070 MEAN 5131 MAX 41400 MIN 1380 MEAN± 5027 CFSM± 2.07 IN± 28.16
WTR YR 1977 TOTAL 1427340 MEAN 3911 MAX 29900 MIN 1300 MEAN± 3805 CFSM± 1.57 IN± 21.26

± Adjusted for change in contents in Lake Sidney Lanier.

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to May 1972, July 1975 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
05...	1430	1550	7.0	22.0	21.0	4.9
NOV						
09...	0940	1390	6.6	5.0	9.0	8.0
DEC						
14...	1015	3160	6.5	6.0	8.5	7.4
JAN						
19...	1000	4030	6.9	-11.5	1.5	12.0
MAR						
10...	1030	5990	6.8	13.0	9.0	9.6
29...	1145	5520	7.0	20.5	15.0	7.2
MAY						
25...	1030	3340	6.9	20.0	20.5	5.4
JUN						
21...	0920	1450	6.7	28.5	25.0	4.8
JUL						
27...	0930	4170	6.9	24.5	22.0	6.3
AUG						
23...	1010	1890	6.6	29.5	24.0	4.9
SEP						
21...	1000	3680	6.6	26.0	22.0	6.4

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)
OCT						
05...	80	10	10	2.4	930	16
NOV						
09...	90	20	8	2.4	230	18
DEC						
14...	67	50	50	4.2	7500	17
JAN						
19...	48	10	28	2.2	110	12
MAR						
10...	53	10	24	2.8	150	13
29...	73	20	46	3.6	1365	16
MAY						
25...	78	15	20	3.7	930	18
JUN						
21...	90	15	18	2.2	230	17
JUL						
27...	53	--	64	4.0	93000	--
AUG						
23...	81	--	21	3.0	9300	--
SEP						
21...	80	--	78	3.4	7500	--

APALACHICOLA RIVER BASIN

02338000 CHATTAHOOCHEE RIVER AT WHITESBURG, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL RESI- DUE (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 05...	16	1.1	14	76	.78	.47	4.0
NOV 09...	19	.98	6	68	.79	.45	4.0
DEC 14...	15	.47	66	116	.33	.37	3.0
JAN 19...	13	.28	49	78	.27	.20	2.0
MAR 10...	14	.33	46	86	.13	.19	3.0
29...	19	.45	102	158	.38	.35	4.0
MAY 25...	17	.82	68	126	.41	.40	3.0
JUN 21...	17	1.1	21	84	.55	.37	3.0
JUL 27...	--	.65	111	180	.10	.41	4.0
AUG 23...	--	1.5	28	86	.62	.31	1.0
SEP 21...	--	.90	72	140	.25	.43	7.0

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
NOV 28...	1830	2975	88	707	90
29...	0115	3685	12	126	83
29...	0545	4595	125	1550	79
29...	1040	5550	118	1770	89
29...	1505	5500	166	2470	75
29...	1920	4960	178	2380	79

APALACHICOLA RIVER BASIN

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02338500 CHATTAHOOCHEE RIVER AT FRANKLIN, GA.

LOCATION.--Lat 33°16'45", long 85°06'00", Heard County, Hydrologic Unit 03130002, at bridge on U.S. Highway 27 at Franklin.
 DRAINAGE AREA.--2,680 mi² (6,940 km²), approximately.

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

REMARKS.--Flow regulated by Lake Sidney Lanier. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400).

Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Records of discharge for the calendar years 1928-31 and 1938-39 are published in reports of the Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT					
05...	0900	7.0	17.5	19.5	7.5
NOV					
09...	1040	6.9	6.5	10.0	8.8
DEC					
14...	1120	6.9	12.5	10.0	7.6
JAN					
19...	1100	6.9	-11.0	2.0	12.6
MAR					
10...	1130	6.7	16.0	10.0	9.7
MAY					
25...	1130	7.2	20.5	22.5	5.8
JUN					
21...	1100	6.7	30.5	25.5	5.8
JUL					
27...	1045	7.0	24.0	26.0	4.4
AUG					
23...	1210	6.7	30.5	27.0	6.6
SEP					
21...	1130	6.9	27.0	25.0	5.8

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	CON- FIRMED COLI- FORM (MPN)	HARD- NESS (CA, MG) (MG/L)
OCT							
05...	67	10	7	.8	91	--	14
NOV							
09...	91	20	6	1.0	36	--	18
DEC							
14...	69	40	50	3.6	9300	--	17
JAN							
19...	73	30	32	2.8	930	23000	16
MAR							
10...	54	10	29	2.1	230	--	13
MAY							
25...	93	20	28	2.5	930	--	17
JUN							
21...	75	10	14	1.0	40	2300	15
JUL							
27...	97	--	88	5.3	4300	--	--
AUG							
23...	94	--	16	.8	150	--	--
SEP							
21...	90	--	42	1.9	1500	--	--

APALACHICOLA RIVER BASIN

02338500 CHATTAHOOCHEE RIVER AT FRANKLIN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG)	TOTAL SODIUM (NA) (MG/L)	TOTAL PO- TAS- SIUM (K) (MG/L)	ALKA- LITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT 05...	3.7	1.9	5.8	2.0	13	6.0	4.3
NOV 09...	6.2	1.9	8.4	2.3	17	11	6.5
DEC 14...	--	--	--	--	15	--	4.5
JAN 19...	--	--	--	--	16	10	3.3
MAR 10...	3.4	1.2	4.2	1.7	13	7.0	3.9
MAY 25...	5.3	1.4	6.1	2.3	15	10	7.0
JUN 21...	4.1	1.3	5.7	2.0	9	9.0	4.5
JUL 27...	--	--	--	--	--	--	--
AUG 23...	--	--	--	--	--	--	--
SEP 21...	--	--	--	--	--	--	--

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL RESI- DUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 05...	8	66	.35	.11	.25	490	<50	2.0
NOV 09...	6	66	1.2	.36	.33	690	60	3.0
DEC 14...	64	134	.62	.23	.38	--	--	3.0
JAN 19...	49	102	.52	.58	.33	--	--	3.0
MAR 10...	53	98	.47	.15	.23	1200	90	4.0
MAY 25...	63	138	1.2	.27	.37	150	100	3.0
JUN 21...	10	68	.92	.06	.20	480	55	2.1
JUL 27...	171	246	.99	.76	.59	--	--	5.0
AUG 23...	11	78	1.5	.14	.19	--	--	<1.0
SEP 21...	36	110	1.3	.34	.33	--	--	6.0

APALACHICOLA RIVER BASIN

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02338720 CHATTAHOOCHEE RIVER NEAR LA GRANGE, GA.

LOCATION.--Lat 33°04'42", long 85°06'39", Troup County, Hydrologic Unit 03130002, at La Grange water works intake, 1.2 mi (1.9 km) upstream from Yellowjacket Creek, and 5.3 mi (8.5 km) northwest of La Grange.

DRAINAGE AREA.--3,010 mi² (7,800 km²), approximately.

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

REMARKS.--Flow regulated by Lake Sidney Lanier. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT					
05...	1030	8.8	21.0	23.5	9.1
NOV					
09...	1230	7.1	9.5	12.0	9.4
DEC					
14...	1250	6.9	9.0	8.0	6.8
JAN					
19...	1200	6.9	-8.5	2.5	11.6
MAR					
10...	1215	7.2	18.0	10.5	8.7
MAY					
25...	1435	7.5	24.0	23.5	8.9
JUN					
21...	1220	9.0	32.0	27.0	9.1
JUL					
27...	1150	7.5	25.5	28.0	7.4
AUG					
23...	1345	9.3	32.5	31.0	10.8
SEP					
21...	1240	8.3	31.0	30.0	10.0

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	CON- FIRMED COLI- FORM (MPN)	HARD- NESS (CA, MG) (MG/L)
OCT							
05...	64	5	3	3.9	150	750	14
NOV							
09...	76	15	10	2.0	<30	210	16
DEC							
14...	75	20	13	1.0	36	2100	18
JAN							
19...	67	80	56	1.5	230	15000	15
MAR							
10...	57	60	38	1.1	150	15000	13
MAY							
25...	62	10	6	1.8	<30	2300	14
JUN							
21...	75	8	5	3.1	<30	--	15
JUL							
27...	73	--	14	2.7	40	--	--
AUG							
23...	67	--	12	4.2	<30	<30	--
SEP							
21...	69	--	12	2.6	40	150	--

APALACHICOLA RIVER BASIN

02338720 CHATTAHOOCHEE RIVER NEAR LAGRANGE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	ALKA- LINITY AS CAC03 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT								
05...	15	4	.50	.02	.08	150	<50	3.0
NOV								
09...	16	17	.84	.16	.16	730	80	4.0
DEC								
14...	17	2	.68	.38	.17	--	--	3.0
JAN								
19...	15	113	.46	.33	.18	--	--	3.0
MAR								
10...	13	29	.40	.14	.15	1400	120	6.0
MAY								
25...	15	3	.58	.05	.05	180	<50	3.0
JUN								
21...	16	6	.42	<.02	.05	110	<50	4.0
JUL								
27...	--	9	.29	<.02	.07	--	--	3.0
AUG								
23...	--	7	<.02	.09	.09	--	--	7.0
SEP								
21...	--	10	.41	<.02	.07	--	--	4.0

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.

LOCATION.--Lat 32°53'10", long 85°10'56", Troup County, Hydrologic Unit 03130002, on right bank just downstream from Oseligee Creek at West Point, 1 mi (1.6 km) upstream from bridge on U.S. Highway 29, 2.5 mi (4.0 km) downstream from West Point Dam and at mile 198.9 (320.0 km).

DRAINAGE AREA.--3,550 mi² (9,190 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1896 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at site 0.8 mi (1.3 km) downstream since 1899 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 682: 1920, drainage area. WSP 972: 1931-32. WSP 1504: 1912, 1916-17.

GAGE.--Water-stage recorder. Datum of gage is 551.67 ft (168.15 m) above mean sea level. Prior to Oct. 20, 1912, nonrecording gage at site 0.8 mi (1.3 km) downstream at datum 2.83 ft (0.863 m) lower. Oct. 20, 1912 to Jan. 25, 1925, nonrecording gage at site 500 ft (152 m) upstream at present datum.

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier since January 1956 and by West Point Lake since October 1974. (See "Lakes and Reservoirs in Apalachicola River Basin", stations 02334400 and 02339400.)

AVERAGE DISCHARGE.--81 years, 5,653 ft³/s (160 m³/s), 21.62 in/yr (549.1 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 134,000 ft³/s (3,790 m³/s) Dec. 10, 1919, gage height, 30.0 ft (9.14 m) at site then in use; 29.25 ft (8.92 m) at present site, from floodmarks, from rating curve extended above 80,000 ft³/s (2,270 m³/s) on basis of computation of peak flow over Langdale Dam; minimum, 224 ft³/s (6.34 m³/s) Sept. 12, 1925, gage height, 1.64 ft (0.500 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1827, that of Dec. 10, 1919. Flood in 1886 reached a stage of 25.6 ft (7.80 m) at former site and datum, from floodmark, by National Weather Service, discharge, 92,800 ft³/s (2,620 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26,300 ft³/s (745 m³/s) Apr. 4, gage height, 13.76 ft (4.194 m); minimum daily, 539 ft³/s (15.3 m³/s) Jan. 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3450	2620	9050	966	5710	9660	20800	886	4090	1320	7100	3910
2	2520	2550	9010	539	5690	9750	25200	3710	5890	810	6950	2020
3	2330	2520	9020	5600	5690	6240	25600	4920	4600	810	2890	755
4	1620	2500	6620	5610	5650	7040	20900	6440	1840	810	1350	753
5	2340	2540	2710	5450	916	1670	16800	6500	1350	4640	4870	2690
6	1670	670	8130	5730	900	1380	14000	6660	7200	4660	927	3200
7	1720	670	8220	5660	5830	7540	14400	5590	2290	4760	893	3190
8	1800	2950	8280	680	6410	9200	11500	904	2090	4660	6200	3180
9	2250	2460	8240	625	5340	9120	7660	9260	4090	791	6230	3180
10	1770	2580	8240	10300	5480	9080	918	10300	4090	798	6130	778
11	1770	2540	1120	13000	3010	8570	9440	10000	1920	5620	6150	788
12	3580	2600	1540	14400	892	7560	15100	9910	1860	6570	6130	3290
13	3630	650	7110	14400	889	7920	15200	7930	4570	7120	815	3180
14	3620	650	8290	14700	3760	7820	15400	946	4430	7120	805	3160
15	3650	3400	8080	5250	2880	7470	15300	830	4380	7110	5940	3200
16	1820	2760	8030	8420	2870	7500	7490	5830	4230	882	5890	3170
17	1780	2700	7980	11900	2840	7640	881	5830	4580	785	4660	800
18	3690	2360	4600	7890	2970	7620	7370	5600	2010	5560	3670	808
19	3140	1300	935	7760	880	8020	12400	5660	1510	5870	3590	3190
20	3180	1300	8480	5030	874	6270	12500	5660	3350	8870	814	3210
21	3210	1210	8490	4730	4910	8220	12700	835	2810	5540	806	3150
22	3400	5560	8170	2420	4980	11500	12600	864	3920	5560	6700	3190
23	660	5870	8050	2870	4960	13100	4370	2230	3270	807	6710	3150
24	650	5870	8130	3610	5170	14200	932	2160	4950	793	6880	763
25	2580	5880	713	3620	5220	14100	13400	2170	1850	6440	1940	760
26	2550	5900	1080	3570	1010	13800	16200	2200	1820	6530	6910	3170
27	2500	5470	4580	3160	1060	13800	16300	2260	4560	6510	855	3300
28	2550	2300	7770	2750	8690	14200	13000	855	3340	5150	814	3120
29	2520	9100	8540	968	---	15500	12800	840	3300	7050	5580	3160
30	640	9410	8580	939	---	18400	992	5540	3300	2720	3870	1770
31	670	---	8620	5610	---	18200	---	4350	---	1180	4840	---
TOTAL	73260	98890	206408	178157	105481	302090	372153	137670	103490	127846	127909	73985
MEAN	2363	3296	6658	5747	3767	9745	12410	4441	3450	4124	4126	2466
MAX	3690	9410	9050	14700	8690	18400	25600	10300	7200	8870	7100	3910
MIN	640	650	713	539	874	1380	881	830	1350	785	805	753

CAL YR 1976 TOTAL 2539308 MEAN 6938 MAX 34000 MIN 640 MEAN† 6794 CFSM† 1.91 IN† 26.05
WTR YR 1977 TOTAL 1907339 MEAN 5226 MAX 25600 MIN 539 MEAN† 5197 CFSM† 1.46 IN† 19.87

† Adjusted for change in contents in Lake Sidney Lanier and West Point Lake.

APALACHICOLA RIVER BASIN

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.72	3.27	6.63	2.06	4.75	6.74	11.82	2.14	3.87	2.39	5.43	3.86
2	3.41	3.23	6.60	1.77	4.72	6.79	13.40	3.74	4.85	2.07	5.37	2.79
3	3.29	3.20	6.61	4.63	4.72	4.98	13.53	4.39	4.20	2.07	3.28	2.02
4	2.86	3.18	5.33	4.68	4.70	5.43	11.84	5.24	2.72	2.07	2.49	2.01
5	3.27	3.20	3.18	4.57	2.16	2.67	10.35	5.28	2.41	4.14	4.32	3.14
6	2.87	2.11	6.08	4.70	2.15	2.51	10.24	5.37	5.55	4.15	2.17	3.46
7	2.89	2.11	6.05	4.69	4.81	5.77	9.20	4.66	2.96	4.24	2.14	3.45
8	2.92	3.46	6.08	1.93	5.10	6.70	7.71	2.15	2.84	4.15	4.95	3.45
9	3.18	3.15	6.05	1.87	4.57	6.66	5.80	6.54	3.91	2.05	4.98	3.45
10	2.88	3.23	6.05	6.97	4.62	6.64	2.16	7.13	3.91	2.06	4.92	2.04
11	2.87	3.20	2.31	8.29	3.32	6.39	6.64	6.96	2.75	4.66	4.94	2.05
12	3.84	3.23	2.62	9.16	2.14	5.88	9.57	6.91	2.72	5.14	4.93	3.48
13	3.87	2.08	5.58	9.14	2.14	6.06	9.62	5.87	4.17	5.45	2.07	3.41
14	3.86	2.08	6.25	9.29	3.68	6.01	9.75	2.17	4.09	5.49	2.06	3.40
15	3.88	3.70	6.14	4.61	3.23	5.83	9.65	2.09	4.06	5.48	4.85	3.43
16	2.88	3.34	6.11	6.31	3.23	5.85	5.65	4.79	4.02	2.13	4.84	3.41
17	2.86	3.29	6.09	7.95	3.22	5.92	2.13	4.79	4.19	2.04	4.22	2.06
18	3.92	3.10	4.17	5.80	3.28	5.91	5.57	4.65	2.84	4.66	3.73	2.07
19	3.57	2.51	2.18	5.96	2.13	5.95	8.19	4.69	2.53	4.85	3.69	3.43
20	3.59	2.51	6.13	4.36	2.13	5.07	8.25	4.68	3.53	6.43	2.07	3.44
21	3.61	2.43	6.16	4.23	4.33	6.07	8.34	2.09	3.23	4.66	2.07	3.40
22	3.72	4.88	5.99	2.99	4.37	7.67	8.28	2.12	3.88	4.66	5.21	3.43
23	2.11	5.09	5.89	3.28	4.37	8.54	4.04	2.91	3.51	2.07	5.22	3.40
24	2.11	5.07	5.93	3.71	4.49	9.11	2.17	2.86	4.37	2.05	5.28	2.02
25	3.26	5.08	1.94	3.72	4.53	9.06	8.68	2.86	2.72	5.11	2.73	2.02
26	3.23	5.10	2.29	3.69	2.24	8.90	10.12	2.88	2.70	5.15	5.31	3.41
27	3.20	4.84	4.20	3.46	2.28	8.93	10.15	2.93	4.16	5.15	2.11	3.49
28	3.21	3.01	5.82	3.24	6.24	9.07	8.50	2.11	3.50	4.46	2.07	3.39
29	3.20	6.85	6.37	2.21	---	9.64	8.41	2.10	3.49	5.37	4.68	3.41
30	2.09	6.81	6.39	2.18	---	10.97	2.21	4.61	3.49	3.36	3.81	2.63
31	2.12	---	6.41	4.69	---	10.90	---	4.01	---	2.36	4.36	---
MEAN	3.20	3.61	5.28	4.71	3.70	6.86	8.07	4.06	3.57	3.87	3.88	3.02
MAX	4.72	6.85	6.63	9.29	6.24	10.97	13.53	7.13	5.55	6.43	5.43	3.86
MIN	2.09	2.08	1.94	1.77	2.13	2.51	2.13	2.09	2.41	2.04	2.06	2.01

WTR YR 1977 MFAN 4.49 MAX 13.53 MIN 1.77

APALACHICOLA RIVER BASIN

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02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
05...	1220	1630	7.2	22.5	22.5	5.3
NOV						
09...	1340	940	7.0	13.5	13.0	8.2
DEC						
14...	1420	8400	7.1	9.0	8.0	9.5
JAN						
19...	1425	9320	7.0	-3.5	1.0	12.5
MAR						
10...	1400	9100	7.3	15.0	10.0	10.2
MAY						
25...	1330	810	6.9	23.5	22.0	7.9
JUN						
21...	1430	852	7.1	33.5	26.5	5.9
JUL						
27...	1440	1480	7.1	24.0	25.0	2.7
AUG						
24...	0715	800	6.7	25.0	26.0	4.6
SEP						
21...	1400	7860	6.5	30.0	26.0	4.0

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA,MG) (MG/L)
OCT							
05...	4.0	64	10	3	.5	36	16
NOV							
09...	3.0	62	25	5	.8	36	16
DEC							
14...	2.0	56	40	18	1.1	<30	14
JAN							
19...	2.0	60	25	19	1.0	<30	15
MAR							
10...	3.0	61	10	9	1.1	<30	14
MAY							
25...	2.0	51	15	7	.7	40	14
JUN							
21...	2.4	61	35	10	.6	40	16
JUL							
27...	2.0	69	--	10	1.3	<30	--
AUG							
24...	2.0	70	--	13	1.2	40	--
SEP							
21...	4.0	68	--	12	1.0	90	--

APALACHICOLA RIVER BASIN

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)
OCT 05...	18	--	.28	.16	.02	410	190
NOV 09...	16	--	.45	.02	<.02	2300	670
DEC 14...	14	16	.39	<.02	.05	1100	110
JAN 19...	17	--	.42	.16	.09	--	--
MAR 10...	17	--	.44	.09	.04	430	70
MAY 25...	17	--	.19	.02	.02	390	140
JUN 21...	19	--	.15	.04	.02	830	263
JUL 27...	--	--	.05	.36	.05	1480	820
AUG 24...	--	--	.14	.20	.03	600	240
SEP 21...	--	--	.17	.29	.03	560	470

02339720 LONG CANE CREEK NEAR WEST POINT, GA.

LOCATION.--Lat 32°54'37", long 85°08'43", Troup County, Hydrologic Unit 03130002, at bridge on Webb Road 2.5 mi (4.0 km) north-east of West Point.

DRAINAGE AREA.--74.8 mi² (194 km²), approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT 05...	1200	23	7.0	23.0	20.0	.9
NOV 09...	1300	39	7.1	13.0	7.0	5.3
DEC 14...	1350	650	6.4	9.0	7.0	7.4
JAN 19...	1400	112	6.8	-3.5	.0	10.6
MAR 10...	1325	175	6.6	17.0	11.5	7.3
MAY 25...	1300	75	6.9	21.5	20.0	2.3
JUN 21...	1325	68	7.1	32.5	25.0	2.4
JUL 27...	1340	36	7.1	25.5	24.5	2.1
AUG 24...	0825	36	6.9	26.0	24.0	1.7
SEP 21...	1335	37	6.6	31.0	25.0	2.8

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- IN/M- CORALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CaCO3 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 05...	240	90	15	6.2	230000	34	55	--	<.02	2.5	2.8	35
NOV 09...	136	70	19	5.6	230000	32	47	--	.08	1.4	1.0	18
DEC 14...	58	90	38	2.0	930	14	14	17	.13	.03	.15	5.0
JAN 19...	104	40	19	7.2	91	22	26	--	.18	.34	.46	12
MAR 10...	109	50	20	3.6	<30	22	24	--	.07	.17	.45	9.0
MAY 25...	238	40	18	7.0	230	30	45	--	.10	2.0	2.5	24
JUN 21...	247	60	20	.8	2300	31	43	--	.27	1.8	1.5	12
JUL 27...	345	--	138	6.0	4300	--	--	--	.15	4.2	3.2	21
AUG 24...	249	--	21	5.2	930	--	--	--	.28	2.8	1.8	22
SEP 21...	237	--	23	3.6	1525	--	--	--	.42	1.6	1.1	11

02341500 CHATTAHOOCHEE RIVER AT COLUMBUS, GA.

LOCATION.--Lat 32°27'45", long 84°59'52", Muscogee County, Ga.--Russell County, Ala., Hydrologic Unit 03130003, on downstream side of center pier of Central of Georgia railway bridge at Columbus, 0.5 mi (0.8 km) downstream from Eagle and Phenix Dam, 1.2 mi (1.9 km) downstream from City Mills Dam, 2.6 mi (4.2 km) downstream from North Highlands Dam, 3.3 mi (5.3 km) downstream from Oliver Dam, 17.5 mi (28.2 km) downstream from Bartletts Ferry Dam, and at mile 159.9 (257.3 km).

DRAINAGE AREA.--4,670 mi² (12,100 km²), approximately.

PERIOD OF RECORD.--August 1929 to current year. Records for December 1912, published in WSP 322, have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 1082: 1943(M). See also period of record.

GAGE.--Water-stage recorder. Datum of gage is 183.14 ft (55.82 m) above mean sea level. Dec. 1-31, 1912, nonrecording gage at site 800 ft (243 m) upstream at datum 2.0 ft (0.61 m) higher, and Aug. 23, 1929 to Sept. 30, 1975, recording gage at present site, at datum 2.0 ft (0.61 m) higher. Oct. 1, 1963 to Sept. 30, 1966, water-stage recorder at Walter F. George Reservoir, and since Oct. 1, 1966, water-stage recorder at Alabama State Docks used as auxiliary gage for this station.

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier since January 1956, West Point Lake since October 1974, and by Lake Harding since 1939. (See "Lakes and Reservoirs in Apalachicola River Basin", stations 02334400, 02339400, and 02341000.) Records of chemical analyses for the period February 1968 to May 1972 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--48 years, 6,760 ft³/s (191 m³/s), 19.66 in/yr (499.4 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 145,000 ft³/s (4,110 m³/s) Feb. 26, 1961; maximum gage height, 47.8 ft (14.57 m) Feb. 25, 1961; minimum discharge, 294 ft³/s (8.33 m³/s) Oct. 23, Nov. 14, 1931; minimum daily, 480 ft³/s (13.6 m³/s) Oct. 31, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known since at least 1827, 198,000 ft³/s (5,610 m³/s) Mar. 15, 1929, computation of flow at North Highlands Dam before redevelopment; maximum stage known, 53.2 ft (16.22 m) Mar. 16, 1929.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 57,900 ft³/s (1,640 m³/s) Mar. 31, gage height, 26.07 ft (7.946 m); minimum daily, 950 ft³/s (26.9 m³/s) Nov. 7.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2160	2630	11500	8470	5170	9410	31800	5000	4730	2210	7810	4020
2	2090	3060	8830	2500	5730	12700	28700	4000	4090	1850	6850	1600
3	2120	1100	9240	4950	5540	12000	29000	4680	4820	2390	15900	1000
4	4960	1960	8330	5550	6170	14200	25900	4730	2410	1740	17800	1050
5	2350	1600	7700	7060	6200	14200	22200	5200	2850	2930	12000	1800
6	3830	1300	7140	6800	3490	7900	18600	5620	5690	5460	5550	1600
7	4440	950	6500	7670	5070	8060	16200	5220	3980	5040	3610	4240
8	12700	3050	8270	5670	6290	9260	15100	5830	3790	2020	4460	2300
9	8940	3530	7710	6190	7630	8190	12000	5530	980	3100	4880	4070
10	1350	3800	7860	8670	5000	9190	6300	8070	3960	2660	5650	1900
11	4810	2640	8840	2640	3840	10300	8010	9890	2450	4220	4790	1200
12	3660	3100	6920	9360	2390	11300	9010	10700	1660	6390	4130	2740
13	4070	1700	8750	11600	1500	12200	15200	12300	4450	7750	2200	2290
14	5090	3300	11800	12900	4430	12300	17400	4260	3900	7600	1700	2940
15	2200	4370	11900	14600	3880	9270	15800	1700	3480	6280	3830	4470
16	1250	2200	9050	10800	7250	10500	13300	5450	4390	3000	5070	4170
17	1700	2250	8430	9530	4320	10300	5700	5240	5040	1810	5370	2460
18	4250	1940	8500	9770	3550	9570	7170	4930	2410	5530	5150	1650
19	3260	1440	9970	11000	2990	9860	7870	4690	2350	7410	4380	4010
20	5110	1300	8780	9970	2900	7220	9840	4010	4860	4370	2150	2670
21	4470	1100	10100	9300	4490	9790	14600	2400	4440	5070	2600	3530
22	2410	4590	8920	4020	6530	14800	13200	1500	4680	5330	4460	4080
23	1400	3590	6510	1400	5670	16800	11600	2550	3660	2300	4930	4310
24	1000	4120	7270	5870	8510	16800	8040	1220	4270	1490	5500	960
25	1690	3730	10300	7720	9520	15400	9010	1800	2130	4880	4320	1040
26	1920	6400	9500	4380	7460	15900	11100	4410	1370	5610	4510	1450
27	2430	7380	9350	3840	7490	15300	15800	2060	3820	6000	3320	3290
28	2380	11700	11100	3180	9110	16200	16200	1670	1140	7920	2000	1500
29	1950	13900	10200	2700	---	21500	13300	1350	2370	9480	4860	1100
30	1600	13400	11700	5000	---	26300	9180	3470	3780	10800	3490	2750
31	1050	---	9500	3610	---	45600	---	5840	---	8720	4300	---
TOTAL	102640	117130	280470	216720	152120	422320	437130	145320	103950	151360	167570	76190
MEAN	3311	3904	9047	6991	5433	13620	14570	4688	3465	4883	5405	2540
MAX	12700	13900	11900	14600	9520	45600	31800	12300	5690	10800	17800	4470
MIN	1000	950	6500	1400	1500	7220	5700	1220	980	1490	1700	960

CAL YR 1976 TOTAL 3040060 MEAN 8306 MAX 36300 MIN 950 MEAN† 8139 CFSM† 1.74 IN† 23.72
WTR YR 1977 TOTAL 2372920 MEAN 6501 MAX 45600 MIN 950 MEAN† 6466 CFSM† 1.38 IN† 18.79

† Adjusted for change in contents in Lake Sidney Lanier, West Point Lake, and Lake Harding.

APALACHICOLA RIVER BASIN

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02341500 CHATTAHOOCHEE RIVER AT COLUMBUS, GA.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.74	6.96	10.17	7.47	5.83	7.09	19.68	6.89	6.01	2.95	7.06	7.24
2	4.91	7.01	8.88	5.12	5.99	8.63	18.26	7.44	5.62	2.68	6.87	6.22
3	4.73	6.19	9.16	6.56	5.87	8.37	18.25	7.59	5.92	3.00	11.92	6.06
4	5.99	6.33	8.74	7.14	6.07	9.81	17.23	7.26	4.97	2.74	13.98	6.17
5	4.67	6.06	8.42	7.87	6.06	9.93	15.82	6.96	5.42	3.28	11.13	6.19
6	5.21	5.76	8.36	6.90	5.18	8.08	13.72	6.68	6.65	4.67	8.13	6.25
7	5.54	5.56	7.88	7.89	5.87	8.28	12.46	6.24	5.70	4.39	7.48	7.08
8	10.21	6.31	9.06	6.31	6.46	8.28	11.83	6.77	5.63	2.60	7.83	6.37
9	8.86	6.47	8.64	6.99	6.80	7.43	10.20	6.92	4.31	3.05	7.80	6.78
10	6.10	6.51	8.62	8.79	5.78	8.30	8.07	8.05	5.32	2.91	7.93	5.94
11	7.32	6.15	9.11	5.49	5.21	8.28	8.55	8.81	4.29	3.89	7.51	5.92
12	7.08	6.17	8.34	7.15	4.66	9.32	8.79	9.32	4.04	5.19	7.28	6.45
13	7.23	5.61	9.29	9.32	4.28	10.51	11.53	10.24	5.36	6.07	6.57	6.18
14	7.50	6.13	10.20	9.88	5.83	10.25	12.62	7.39	4.92	6.02	6.66	6.19
15	6.66	6.71	10.06	11.44	5.11	8.67	12.06	6.60	4.53	5.21	7.45	6.52
16	6.29	5.99	9.11	8.90	5.97	9.01	10.83	7.77	4.81	3.15	7.54	6.45
17	6.63	5.80	8.69	7.95	4.47	8.88	8.06	7.55	5.02	2.52	7.55	5.87
18	7.51	5.65	8.15	8.00	3.89	8.40	8.52	7.49	3.75	4.64	7.43	5.79
19	7.15	5.29	9.06	8.48	3.53	8.49	8.58	7.38	3.76	4.78	7.22	6.75
20	7.93	4.93	8.96	7.90	3.59	7.41	9.27	6.91	5.21	4.29	6.45	6.19
21	7.77	4.82	9.47	7.58	4.44	8.73	11.41	6.27	4.96	4.72	6.81	6.31
22	7.17	6.17	8.32	5.15	5.34	11.99	10.74	6.12	5.09	4.83	7.53	6.50
23	6.59	5.67	7.31	3.61	4.84	13.14	9.94	6.42	4.43	3.11	7.63	6.44
24	6.49	5.63	7.14	5.95	6.63	12.64	8.43	5.57	4.77	2.61	7.65	5.35
25	6.85	5.36	8.44	7.28	7.22	12.03	8.87	5.42	3.51	4.58	7.37	5.40
26	6.78	6.34	9.04	5.57	6.22	12.09	9.53	6.23	3.30	4.95	7.36	5.67
27	6.82	6.96	8.63	5.07	6.39	11.64	11.94	5.16	4.62	5.36	7.11	6.36
28	6.70	9.70	9.20	4.83	7.25	11.99	12.26	5.03	3.17	6.36	6.85	5.70
29	6.36	12.43	8.45	4.06	---	14.26	10.80	4.97	3.50	7.60	7.73	5.43
30	6.43	11.54	9.27	4.91	---	16.42	8.94	5.50	4.34	8.52	7.27	5.88
31	6.26	---	8.04	5.13	---	23.80	---	6.38	---	7.45	7.38	---
MEAN	6.66	6.54	8.78	6.93	5.53	10.39	11.57	6.88	4.76	4.46	7.82	6.19
MAX	10.21	12.43	10.20	11.44	7.25	23.80	19.68	10.24	6.65	8.52	13.98	7.24
MIN	4.67	4.82	7.14	3.61	3.53	7.09	8.06	4.97	3.17	2.52	6.45	5.35
WTR YR 1977	MEAN 7.22		MAX 23.80	MIN 2.52								

APALACHICOLA RIVER BASIN

02341800 UPATOI CREEK NEAR COLUMBUS, GA.

LOCATION.--Lat 32°24'48", long 84°49'12", Muscogee-Chattahoochee County line, Hydrologic Unit 03130003, at downstream side of pier near left end of bridge on Red Arrow Road at Fort Benning, 2 mi (3.2 km) downstream from Randall Creek, 2 mi (3.2 km) upstream from Ochillee Creek, 8 mi (12.9 km) southeast of Columbus, and 12 mi (19 km) upstream from mouth.

DRAINAGE AREA.--342 mi² (886 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 230 ft (70 m), from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--9 years, 516 ft³/s (14.6 m³/s), 20.13 in/yr (511.3 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,200 ft³/s (289 m³/s) Apr. 15, 1975, gage height, 15.76 ft (4.804 m); minimum, 106 ft³/s (3.00 m³/s) Oct. 5, 6, 7, 1970.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft³/s (70.8 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)	
Nov. 28	2245	4510	128	10.51	3.203	Mar. 22	0715	3990	113	9.99	3.045
Dec. 26	0600	2990	84.7	8.70	2.652	Mar. 31	0945	5760	163	11.76	3.584
Mar. 4	2000	2570	72.8	8.10	2.469	Aug. 3	1915	*6440	182	12.44	3.792
Mar. 13	0415	4510	128	10.51	3.203						

Minimum discharge, 141 ft³/s (3.99 m³/s) July 18, 23.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	322	334	965	568	548	730	2580	292	230	190	236	160
2	250	287	735	524	520	604	1590	280	230	184	226	156
3	220	267	640	850	516	532	1210	270	202	165	2810	160
4	212	258	580	1090	592	1300	1000	258	190	169	2290	166
5	206	250	536	845	564	1770	1700	250	184	190	845	171
6	204	246	512	696	500	1350	1320	240	178	184	512	182
7	297	246	925	1070	460	1500	985	232	175	166	346	192
8	668	246	1100	895	440	1100	840	300	171	156	277	188
9	556	242	790	720	433	845	740	302	168	169	240	182
10	412	242	628	1400	426	730	672	272	166	222	228	175
11	310	246	568	1040	422	730	628	248	163	192	214	186
12	260	305	925	785	419	970	588	234	165	168	198	180
13	242	325	1350	684	429	3690	552	226	177	157	188	168
14	232	290	1020	1300	426	2020	516	220	173	153	178	173
15	226	624	895	1650	408	1240	480	218	163	150	177	175
16	220	652	825	1060	387	975	440	214	159	148	178	171
17	346	472	692	795	373	850	415	212	160	146	177	192
18	426	422	612	696	370	775	401	206	169	142	194	198
19	334	367	564	632	377	725	391	204	214	153	218	238
20	612	346	572	616	370	730	370	208	262	158	234	280
21	628	361	652	600	358	845	355	212	206	152	200	210
22	426	340	564	572	355	3260	352	216	178	146	178	182
23	328	305	520	552	352	1950	380	222	224	144	169	171
24	292	292	488	668	885	1210	415	216	292	159	165	165
25	295	287	592	795	895	955	398	216	224	158	162	164
26	384	316	2410	656	632	835	355	222	186	159	166	176
27	346	568	1420	616	750	760	334	307	174	177	184	204
28	295	1980	955	648	1030	708	328	373	171	295	202	190
29	270	3380	765	592	---	820	316	297	174	422	188	171
30	277	1630	656	532	---	835	305	242	180	398	175	173
31	349	---	612	536	---	4870	---	230	---	292	169	---
TOTAL	10445	16126	25068	24683	14237	40214	20956	7639	5708	5864	11924	5499
MEAN	337	538	809	796	508	1297	699	246	190	189	385	183
MAX	668	3380	2410	1650	1030	4870	2580	373	292	422	2810	280
MIN	204	242	488	524	352	532	305	204	159	142	162	156
CFSM	.99	1.57	2.37	2.33	1.49	3.79	2.04	.72	.56	.55	1.13	.54
IN.	1.14	1.75	2.73	2.68	1.55	4.37	2.28	.83	.62	.64	1.30	.60

CAL YR 1976	TOTAL	180764	MEAN 494	MAX 3380	MIN 188	CFSM 1.44	IN 19.66
WTR YR 1977	TOTAL	188363	MEAN 516	MAX 4870	MIN 142	CFSM 1.51	IN 20.49

02344040 CHATTAHOOCHEE RIVER NEAR STEAM MILL, GA.

LOCATION.--Lat 30°58'39", long 85°00'19", Seminole County, Ga.-Jackson County, Fla., Hydrologic Unit 03130004, at Herman E. Talmadge Bridge on State Highway 91, 2 mi (3 km) northwest of Steam Mill.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Lake Sidney Lanier, West Point Lake, Lake Harding, Walter F. George Reservoir (See "Lakes and Reservoirs in Apalachicola River Basin", stations 02334400, 02339400, 02341000, 02343240.), and by George W. Andrews Reservoir.

WATER QUALITY DATA. WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT					
07...	1140	7.8	21.0	22.5	6.5
NOV					
09...	0915	7.6	3.0	13.5	8.7
DEC					
08...	1415	7.5	10.5	10.5	10.6
JAN					
18...	1200	7.6	4.0	5.5	12.0
FEB					
15...	0945	7.6	8.0	8.0	7.0
MAR					
09...	1330	7.5	19.0	12.5	8.1
APR					
07...	1300	7.3	18.0	17.0	8.6
MAY					
10...	0855	7.8	20.5	23.0	--
JUN					
16...	1300	7.0	34.0	28.0	5.6
JUL					
14...	1215	7.4	33.0	28.0	5.8
AUG					
15...	1515	6.3	27.0	28.0	6.4
SEP					
12...	1100	7.3	30.0	28.0	6.5

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INIM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA,MG) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT												
07...	95	8	11	1.3	930	30	32	--	.12	<.02	.06	17
NOV												
09...	44	20	5	.9	91	24	26	--	.19	<.02	.02	4.0
DEC												
08...	75	10	16	1.5	330	26	22	--	.28	.02	.05	3.0
JAN												
18...	72	25	18	1.5	36	24	22	--	.30	<.02	.06	10
FEB												
15...	78	20	12	2.4	36	22	21	--	.30	<.02	.05	6.0
MAR												
09...	67	30	15	2.0	91	19	19	--	.13	<.02	.06	6.0
APR												
07...	66	20	18	1.0	63	18	19	--	.28	<.02	.04	3.0
MAY												
10...	68	10	6	1.2	36	21	57	--	.28	<.02	.03	3.0
JUN												
16...	77	20	7	1.1	<30	23	24	--	.12	<.02	.03	4.0
JUL												
14...	86	15	11	1.5	40	--	--	7	.11	.16	.04	4.0
AUG												
15...	101	8	13	1.8	40	--	--	9	.19	<.02	.03	3.0
SEP												
12...	94	15	14	1.6	430	--	--	15	.10	<.02	.04	3.0

APALACHICOLA RIVER BASIN

02344180 FLINT RIVER NEAR JONESBORO, GA.

LOCATION.--Lat 33°32'14", long 84°22'35", Clayton County, Hydrologic Unit 03130005, at bridge on State Highway 138, 0.8 mi (1.3 km) west of U.S. Highway 41, and 1.5 mi (2.4 km) northwest of Jonesboro.

DRAINAGE AREA.--39.1 mi² (62.9 km²).

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA. WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
21...	0835	34	6.6	5.0	9.5	4.9
NOV						
15...	1545	845	6.5	9.0	5.0	10.2
DEC						
20...	1500	194	--	11.0	10.0	7.4
JAN						
25...	0930	98	6.7	2.0	1.5	9.8
FEB						
28...	1400	83	7.0	11.0	8.5	8.5
APR						
05...	1540	395	6.7	11.0	15.5	6.4
MAY						
09...	0840	24	6.8	19.0	20.0	3.7
JUN						
14...	0935	21	6.9	27.0	24.0	3.2
JUL						
11...	0900	16	7.0	27.0	26.0	3.1
AUG						
17...	1640	20	7.4	30.5	26.0	4.9
SEP						
12...	0950	21	6.9	23.5	22.0	4.5

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	CON- FIRMED COLI- FORM (MPN)	HARD- NESS (CA, MG) (MG/L)
OCT							
21...	127	70	40	2.8	2300	--	28
NOV							
15...	47	240	290	7.5	23000	150000	12
DEC							
20...	96	60	66	--	750	93000	26
JAN							
25...	103	40	33	>38	3300	121500	25
FEB							
28...	101	80	85	2.5	930	--	24
APR							
05...	70	180	186	2.8	15000	--	21
MAY							
09...	160	20	21	5.2	750	--	31
JUN							
14...	188	70	31	3.2	21000	--	16
JUL							
11...	223	--	18	<1.0	930	--	--
AUG							
17...	306	--	14	2.2	430	--	--
SEP							
12...	193	--	24	1.6	13650	--	--

02344180 FLINT RIVER NEAR JONESBORO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTFMBER 1977

DATE	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL PO- TAS- SIUM (K) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT 21...	8.6	1.7	10	4.1	24	14	7.5
NOV 15...	3.7	.8	2.4	3.5	11	2.0	2.0
DEC 20...	9.6	1.9	6.9	2.8	28	--	4.5
JAN 25...	7.9	1.7	7.8	2.8	24	12	7.3
FEB 28...	7.6	1.6	8.0	2.7	23	14	6.3
APR 05...	6.7	1.3	3.9	2.4	19	10	4.0
MAY 09...	11	2.4	17	3.8	39	18	12
JUN 14...	12	2.1	19	5.4	37	24	14
JUL 11...	--	--	--	--	--	--	--
AUG 17...	--	--	--	--	--	--	--
SEP 12...	--	--	--	--	--	--	--

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL RESI- DUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 21...	32	132	1.6	.31	.65	2400	290	9.0
NOV 15...	364	366	.31	.22	.45	8300	390	10
DEC 20...	76	156	.39	.54	.37	4000	490	4.0
JAN 25...	38	122	.47	1.2	.38	1610	486	22
FEB 28...	39	130	.47	.66	.27	2400	390	5.0
APR 05...	104	200	.24	.14	.22	5900	320	9.0
MAY 09...	24	140	1.4	.42	.63	2000	610	6.0
JUN 14...	23	154	2.6	1.0	.90	1500	460	5.1
JUL 11...	14	174	2.8	.15	1.5	--	--	4.0
AUG 17...	9	212	1.5	6.8	1.7	--	--	6.0
SEP 12...	14	158	.90	.21	--	--	--	5.0

APALACHICOLA RIVER BASIN

02344190 FLINT RIVER NEAR FAYETTEVILLE, GA.

LOCATION.--Lat 33°29'13", long 84°23'44", Fayette-Clayton County line, Hydrologic Unit 03130005, at bridge on State Highway 54, 200 ft (60 m) east of Thomas Road, 0.2 mi (0.3 km) upstream from Camp Creek, and 4.4 mi (7.1 km) northeast of Fayetteville.

DRAINAGE AREA.--49 mi² (79 km²).

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
21...	0915	142	6.6	6.0	10.0	9.9
NOV						
16...	1515	224	6.5	9.0	6.5	7.1
DEC						
20...	1435	93	7.1	11.5	10.0	5.2
JAN						
25...	1000	186	6.7	1.5	.5	9.6
FEB						
28...	1325	190	6.4	11.5	9.5	7.3
APR						
05...	1515	438	6.5	9.0	16.0	5.2
MAY						
09...	0910	48	7.3	19.5	17.5	1.4
JUN						
14...	0900	45	7.0	30.0	24.0	1.3
JUL						
11...	0940	28	7.2	29.0	24.5	1.3
AUG						
17...	1600	29	7.0	29.0	27.0	2.1
SEP						
12...	1030	34	7.3	24.5	22.0	2.0

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)
OCT						
21...	154	70	40	3.6	230	26
NOV						
16...	84	140	92	5.2	750	17
DEC						
20...	180	10	15	--	<30	30
JAN						
25...	128	30	33	>15	2300	23
FEB						
28...	93	200	135	3.2	4300	19
APR						
05...	72	200	220	4.4	23000	19
MAY						
09...	245	20	12	3.8	91	34
JUN						
14...	240	45	10	3.0	190	36
JUL						
11...	411	--	10	1.8	40	--
AUG						
17...	222	--	16	2.2	15000	--
SEP						
12...	300	--	15	3.4	930	--

02344190 FLINT RIVER NEAR FAYETTEVILLE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	ALKA- LINITY AS CaCO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL RESI- DUE (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT							
21...	30	1.3	17	148	1.2	.81	10
NOV							
16...	15	.58	26	138	.50	.68	9.0
DEC							
20...	47	.85	5	136	3.0	.80	3.0
JAN							
25...	31	.53	27	120	2.5	.95	40
FEB							
28...	20	.42	32	164	.82	.67	8.0
APR							
05...	18	.27	113	216	.31	.47	8.0
MAY							
09...	67	.23	9	166	4.9	2.7	8.0
JUN							
14...	68	.38	10	160	6.6	1.9	10
JUL							
11...	--	2.5	7	240	.07	3.8	8.0
AUG							
17...	--	2.9	11	186	.29	1.1	3.0
SEP							
12...	--	1.4	9	208	6.0	2.5	9.0

APALACHICOLA RIVER BASIN

02344380 FLINT RIVER NEAR INMAN, GA.

LOCATION.--Lat 33°23'08", long 84°23'24", Fayette-Clayton County line, Hydrologic Unit 03130005, at bridge on Ackert Road, 0.6 mi (1.0 km) downstream from Gay Creek, and 1.4 mi (2.2 km) east of State Highway 92 at Inman.

DRAINAGE AREA.--158 mi² (254 km²).

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
21...	1010	134	6.7	9.0	10.5	6.7
NOV						
16...	1410	868	6.6	9.0	6.0	7.6
DEC						
21...	1300	255	7.1	-1.5	5.0	9.1
JAN						
25...	1025	249	6.9	1.5	1.0	11.5
MAR						
02...	1400	258	6.9	15.0	8.5	9.1
APR						
05...	1440	684	6.8	13.0	16.5	6.3
MAY						
09...	0950	110	7.1	19.0	20.0	4.4
JUN						
14...	0945	95	6.8	27.5	24.0	3.1
JUL						
11...	1020	53	7.0	29.0	25.0	3.4
AUG						
17...	1425	68	6.9	30.0	27.0	4.5
SEP						
12...	1115	87	7.0	25.5	22.5	5.0

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	CON- FIRMED COLI- FORM (MPN)	HARD- NESS (CA, MG) (MG/L)
OCT							
21...	134	70	23	2.5	1365	--	22
NOV							
16...	84	120	60	8.8	7500	--	15
DEC							
21...	113	20	14	1.4	91	9300	20
JAN							
25...	109	30	12	12	91	--	19
MAR							
02...	83	70	34	2.1	230	--	17
APR							
05...	77	80	34	1.8	930	--	17
MAY							
09...	156	30	13	3.5	430	--	25
JUN							
14...	207	35	10	3.0	<30	--	28
JUL							
11...	237	--	9	.9	90	--	--
AUG							
17...	220	--	15	2.4	430	--	--
SEP							
12...	168	--	16	2.1	230	--	--

02344380 FLINT RIVER NEAR INMAN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL RESI- DUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT							
21...	25	10	134	1.7	.26	.56	7.0
NOV							
16...	18	33	34	.37	.19	.44	12
DEC							
21...	26	9	92	.94	.35	.27	2.0
JAN							
25...	24	5	82	.60	.91	.46	2.0
MAR							
02...	19	14	82	.67	.23	.35	4.0
APR							
05...	19	28	92	.54	.05	.22	6.0
MAY							
09...	33	12	130	2.0	.09	.66	5.0
JUN							
14...	34	7	152	2.4	.29	1.0	3.0
JUL							
11...	--	5	163	2.5	1.4	1.4	5.0
AUG							
17...	--	9	182	2.3	.62	.64	3.0
SEP							
12...	--	7	130	2.1	.13	.70	5.0

APALACHICOLA RIVER BASIN

02344400 FLINT RIVER ABOVE GRIFFIN, GA.

LOCATION.--Lat 33°18'33", long 84°23'36", Spalding-Fayette County line, Hydrologic Unit 03130005, at bridge on State Highway 92, 3.4 mi (5.5 km) upstream from Central of Georgia Railroad bridge, and 8.5 mi (13.7 km) northwest of Griffin.

DRAINAGE AREA.--194 mi² (502 km²).

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
21...	1035	143	6.9	6.0	10.5	7.4
NOV						
16...	1310	401	6.6	9.0	6.5	8.0
DEC						
21...	1225	283	7.0	-1.0	5.5	9.8
JAN						
25...	1055	369	6.8	2.0	1.0	11.9
MAR						
02...	1330	526	6.9	16.0	9.0	10.0
APR						
05...	1410	675	6.9	10.5	17.0	7.0
MAY						
09...	1025	114	7.3	16.5	20.0	4.9
JUN						
14...	1020	103	6.8	29.0	23.5	4.4
JUL						
11...	1100	74	7.1	30.5	25.5	4.5
AUG						
17...	1320	85	7.0	31.0	26.0	5.1
SEP						
12...	1145	117	7.0	26.5	22.5	5.9

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	RIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	CON- FIRMED COLI- FORM (MPN)	HARD- NESS (CA,MG) (MG/L)
OCT							
21...	125	50	27	1.7	73	9300	22
NOV							
16...	109	60	19	4.0	930	93000	18
DEC							
21...	104	25	11	1.1	73	23000	18
JAN							
25...	101	25	12	12	91	3900	16
MAR							
02...	69	80	45	1.8	230	2900	14
APR							
05...	81	60	26	1.0	430	930	19
MAY							
09...	139	30	12	1.5	91	930	22
JUN							
14...	186	25	5	.9	40	930	27
JUL							
11...	197	--	7	<.2	70	--	--
AUG							
17...	207	--	24	1.0	210	--	--
SEP							
12...	135	--	16	.8	90	1500	--

02344400 FLINT RIVER ABOVE GRIFFIN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL PO- TAS- SIUM (K) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
OCT 21...	13	8.8	14	4.1	24	12	10
NOV 16...	5.9	1.8	11	5.5	23	14	9.0
DEC 21...	6.0	1.7	12	2.3	21	13	10
JAN 25...	4.9	1.4	11	2.2	22	8.0	9.0
MAR 02...	4.2	1.2	6.2	2.0	16	7.0	5.5
APR 05...	5.2	1.6	7.3	2.3	21	7.0	6.2
MAY 09...	7.5	2.2	17	3.0	31	12	13
JUN 14...	7.8	2.1	24	4.2	35	16	19
JUL 11...	--	--	--	--	--	--	--
AUG 17...	--	--	--	--	--	--	--
SEP 12...	--	--	--	--	--	--	--

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL RESI- DUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 21...	10	131	1.4	<.02	.43	2000	220	6.0
NOV 16...	17	114	.51	.20	.43	1900	390	8.0
DEC 21...	6	84	.79	.16	.20	1200	170	2.0
JAN 25...	6	88	.56	.62	.34	92	150	2.0
MAR 02...	18	94	.44	.05	.23	2200	60	5.0
APR 05...	14	80	.58	.03	.20	1700	210	7.0
MAY 09...	10	122	1.7	<.02	.49	1300	380	4.0
JUN 14...	5	134	2.2	.06	.88	640	205	4.0
JUL 11...	4	336	2.5	.09	.74	--	--	4.0
AUG 17...	13	168	1.9	.13	.41	--	--	3.0
SEP 12...	4	108	1.2	<.02	.42	--	--	5.0

02344500 FLINT RIVER NEAR GRIFFIN, GA.

LOCATION.--Lat 33°14'39", long 84°25'45", Spalding County, Hydrologic Unit 03130005, at downstream side of pier of bridge on State Highway 16, 1.5 mi (2.4 km) downstream from Shoal Creek, 5.5 mi (8.8 km) upstream from Line Creek, 10 mi (16 km) west of Griffin, and at mile 304.4 (489.8 km).

DRAINAGE AREA.--272 mi² (704 km²).

PERIOD OF RECORD.--March 1937 to current year. Monthly discharge only for some periods, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 711.44 ft (216.85 m) above mean sea level (levels by Corps of Engineers). Prior to Aug. 25, 1938, nonrecording gage at present site at datum 3.00 ft (0.91 m) higher. Aug. 25, 1938 to May 5, 1941, nonrecording gage, May 6, 1941 to Aug. 20, 1959, water-stage recorder, and Aug. 21, 1959 to Sept. 13, 1960, nonrecording gage, all at present site and datum.

REMARKS.--Records good except those for periods of no gage-height record, June 4-27 and July 8 to Aug. 8, which are fair. Some diurnal fluctuation at low flow. City of Griffin diverted an average of about 8 ft³/s (0.23 m³/s) for municipal supply at pumping plant 6 mi (9.7 km) above station. An average of about 1 ft³/s (0.03 m³/s) of the diversion was discharged as sewage effluent into tributaries of Towaliga River, and an average of about 3 ft³/s (0.08 m³/s) was returned as sewage effluent to Flint River about 49 mi (79 km) downstream. Records of chemical analyses for the water years 1968-69, 1971-72, are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--40 years, 357 ft³/s (10.1 m³/s), 17.82 in/yr (452.6 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,200 ft³/s (374 m³/s) Nov. 27, 1948, gage height, 18.0 ft (5.49 m); minimum daily, 2.5 ft³/s (0.071 m³/s) Oct. 20, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 14 or 15, 1929, reached a stage of 17.9 ft (5.46 m), present datum, from floodmark located by local resident, discharge, 15,300 ft³/s (433 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (56.6 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. 12	0700	2070	58.6	10.59	3.228	Mar. 31	2200	*3390	96.0	12.06	3.676
Mar. 22	1000	2980	84.4	11.68	3.560						

Minimum daily discharge, 46 ft³/s (1.30 m³/s) July 13.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	139	969	273	274	636	2760	178	131	70	450	158
2	75	161	755	251	262	689	1560	179	114	135	260	125
3	65	160	332	273	255	423	921	179	101	213	350	110
4	60	121	234	348	252	400	686	175	92	186	700	102
5	54	110	202	358	249	595	779	166	92	140	900	96
6	53	108	191	394	243	868	911	158	92	100	400	93
7	67	105	283	530	235	1060	1140	148	90	80	250	115
8	197	102	354	580	223	860	902	146	86	66	140	160
9	307	99	389	693	220	869	555	143	81	58	122	177
10	368	99	394	1080	216	677	413	137	76	58	390	208
11	363	102	265	1230	214	444	355	126	77	53	459	191
12	224	108	618	1900	215	390	319	116	71	49	363	142
13	135	117	1080	1040	225	609	286	114	72	46	315	124
14	111	123	861	625	232	711	268	112	70	50	175	104
15	94	189	949	586	240	883	254	113	67	150	135	96
16	87	314	791	563	227	666	241	108	64	210	118	92
17	93	507	526	570	205	403	230	97	90	150	140	99
18	116	1010	449	412	196	330	221	95	150	105	145	135
19	119	563	321	310	196	299	211	92	250	70	161	178
20	148	233	285	307	195	632	206	90	230	80	134	184
21	151	188	301	294	191	987	198	107	180	68	121	187
22	149	167	334	283	184	2700	193	106	160	60	108	185
23	161	152	415	273	184	2000	197	103	140	74	96	147
24	129	140	306	301	418	1550	235	104	130	94	87	103
25	113	133	276	390	571	924	275	146	110	88	88	89
26	116	134	825	410	660	554	260	166	115	130	153	83
27	123	163	865	437	818	419	223	396	98	170	177	79
28	160	230	1020	386	714	374	195	272	81	450	274	86
29	168	515	901	389	---	590	179	214	76	1300	433	92
30	128	666	428	343	---	864	178	170	70	1500	576	104
31	129	---	312	305	---	2740	---	151	---	850	288	---
TOTAL	4349	6958	16231	16134	8314	26146	15351	4607	3256	6853	8508	3844
MEAN	140	232	524	520	297	843	512	149	109	221	274	128
MAX	368	1010	1080	1900	818	2740	2760	396	250	1500	900	208
MTN	53	99	191	251	184	299	178	90	64	46	87	79
CFSM	.52	.85	1.93	1.91	1.09	3.10	1.88	.55	.40	.81	1.01	.47
IN.	.59	.95	2.22	2.21	1.14	3.58	2.10	.63	.45	.94	1.16	.53
CAL YR 1976	TOTAL	141638	MEAN 387	MAX 8570	MIN 53	CFSM 1.42	IN 19.37					
WTR YR 1977	TOTAL	120551	MEAN 330	MAX 2760	MIN 46	CFSM 1.21	IN 16.49					

APALACHICOLA RIVER BASIN

259

02344700 LINE CREEK NEAR SENOIA, GA.

LOCATION.--Lat 33°19'10", long 84°31'25", Coweta-Fayette County line, Hydrologic Unit 03130005, on downstream side of bridge on State Highway 85, 2.2 mi (3.5 km) northeast of Senoia, 4.1 mi (6.6 km) upstream from Whitewater Creek, and 11.2 mi (18.0 km) upstream from mouth.

DRAINAGE AREA.--101 mi² (262 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 740 ft (226 m), from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--13 years, 139 ft³/s (3.94 m³/s), 18.67 in/yr (474.7 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,260 ft³/s (177 m³/s) Mar. 16, 1976, gage height, 13.38 ft (4.078 m); minimum, 4.7 ft³/s (0.133 m³/s) Oct. 7, 1970, gage height, 1.23 ft (0.375 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s (28.3 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)
Mar. 22	1700	1090 30.9	8.83 2.691	Mar. 31	0800	*3020 85.5	11.28 3.438

Minimum daily discharge, 6.6 ft³/s (0.187 m³/s) July 22.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	47	192	107	104	358	1020	75	42	16	81	43
2	23	44	113	94	98	190	527	133	37	27	48	35
3	20	37	89	96	94	148	356	93	34	38	66	29
4	19	34	75	155	93	167	342	79	31	34	120	25
5	17	32	67	163	95	279	494	72	29	25	102	23
6	16	30	65	129	90	316	867	64	29	20	66	24
7	47	28	105	204	82	379	470	60	27	17	55	40
8	130	28	160	311	78	455	286	62	24	14	50	52
9	120	27	125	236	77	318	222	65	22	13	39	44
10	81	27	89	479	77	201	184	57	21	14	32	40
11	58	28	79	796	76	174	161	49	19	12	30	60
12	43	32	119	389	76	181	147	46	19	11	26	53
13	35	34	254	214	84	365	137	44	19	11	22	46
14	32	36	322	196	95	547	117	40	18	12	20	37
15	30	111	222	245	85	333	100	38	17	36	21	29
16	29	287	198	214	71	205	94	37	16	104	21	25
17	29	279	157	154	69	164	93	37	17	32	19	30
18	33	111	120	135	71	144	90	35	22	15	17	33
19	33	78	101	135	72	134	87	34	30	11	16	30
20	38	63	98	133	74	172	82	32	29	11	16	40
21	45	59	144	122	71	244	75	31	25	9.9	16	45
22	41	54	149	107	69	859	73	35	21	6.6	16	40
23	35	48	108	101	68	782	85	39	23	9.4	15	32
24	30	44	93	115	170	397	113	35	22	12	14	26
25	30	42	94	188	364	237	104	45	24	24	14	24
26	36	44	243	175	304	184	83	52	22	19	17	22
27	43	55	385	136	197	158	73	90	22	15	59	21
28	40	99	274	135	353	149	68	100	20	165	356	25
29	33	260	154	147	---	300	65	67	19	239	234	28
30	32	331	124	126	---	665	67	53	17	153	80	30
31	40	---	109	106	---	2370	---	46	---	137	55	---
TOTAL	1265	2429	4627	6043	3257	11575	6682	1745	717	1262.9	1743	1031
MEAN	40.8	81.0	149	195	116	373	223	56.3	23.9	40.7	56.2	34.4
MAX	130	331	385	796	364	2370	1020	133	42	239	356	60
MIN	16	27	65	94	68	134	65	31	16	6.6	14	21
CFSM	.40	.80	1.48	1.93	1.15	3.69	2.21	.56	.24	.40	.56	.34
IN.	.47	.89	1.70	2.23	1.20	4.26	2.46	.64	.26	.47	.64	.38
CAL YR 1976	TOTAL	48491.0	MEAN 132	MAX 4070	MIN 14	CFSM 1.31	IN 17.86					
WTR YR 1977	TOTAL	42376.9	MEAN 116	MAX 2370	MIN 6.6	CFSM 1.15	IN 15.61					

APALACHICOLA RIVER BASIN

02344870 FLINT RIVER NEAR CONCORD, GA.

LOCATION.--Lat 33°04'03", long 84°31'30", Pike-Meriwether County line, Hydrologic Unit 03130005, at David Knott Bridge on connecting road 3.9 mi (6.3 km) west of State Highway 18, 4.8 mi (7.7 km) downstream from Birch Creek, and 5.4 mi (8.7 km) southwest of Concord.

DRAINAGE AREA.--795 mi² (2,060 km²), approximately.

PERIOD OF RECORD.--August 1976 to June 1977 (discontinued).

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT					
21...	1200	7.1	8.5	12.0	8.2
NOV					
16...	1135	6.7	8.0	7.0	9.8
DEC					
21...	1110	6.6	-3.0	6.5	10.8
JAN					
25...	1200	6.8	3.0	1.5	13.1
MAR					
02...	1220	6.9	15.5	8.0	10.1
APR					
05...	1305	6.7	13.0	17.0	7.0
MAY					
09...	1210	7.3	16.0	21.5	6.9
JUN					
14...	1150	7.0	31.0	25.0	5.8

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA+MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT											
21...	79	45	8	.6	36	16	21	.63	<.02	.10	4.0
NOV											
16...	85	40	8	.9	<30	17	23	.40	.07	.15	3.0
DEC											
21...	57	30	11	.5	150	12	15	.24	.02	.07	2.0
JAN											
25...	57	30	12	1.0	91	12	15	.29	.16	.09	1.0
MAR											
02...	49	60	33	1.3	150	11	13	.18	<.02	.10	4.0
APR											
05...	47	80	33	1.1	1500	11	14	.16	<.02	.06	5.0
MAY											
09...	75	40	10	.4	<30	17	21	.57	.03	.11	3.0
JUN											
14...	96	35	9	1.0	40	19	25	.72	<.02	.16	3.0

APALACHICOLA RIVER BASIN

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02346045 FLINT RIVER NEAR RALEIGH, GA.

LOCATION.--Lat 32°56'13", long 84°31'22", Meriwether-Upson County line, Hydrologic Unit 03130005, 2.2 mi (3.5 km) downstream from Cane Creek, and 6.6 mi (10.6 km) east of Raleigh.

PERIOD OF RECORD.--August 1976 to June 1977 (discontinued).

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
21...	1240	670	7.1	9.0	14.0	9.5
NOV						
16...	1045	1420	6.9	8.0	8.0	10.4
DEC						
21...	1025	1780	7.0	-2.0	6.0	11.8
JAN						
25...	1250	2400	7.0	7.0	2.5	13.5
MAR						
02...	1140	--	7.0	13.5	8.5	10.9
APR						
05...	1150	--	6.7	16.5	17.0	8.0
MAY						
09...	1250	590	8.9	20.0	22.5	10.4
JUN						
14...	1250	296	8.8	31.0	27.5	9.5

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBAI T UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT											
21...	65	50	10	.9	430	12	19	.32	<.02	.07	4.0
NOV											
16...	72	40	14	1.0	23000	16	21	.30	<.02	.11	3.0
DEC											
21...	50	30	12	.4	91	11	15	.20	<.02	.05	5.0
JAN											
25...	51	30	12	.6	430	12	13	.27	.12	.06	1.0
MAR											
02...	45	70	30	1.1	430	10	13	.14	<.02	.07	3.0
APR											
05...	47	90	39	.8	1500	12	13	.16	<.02	.06	5.0
MAY											
09...	61	40	10	.7	91	14	19	.41	<.02	.07	3.0
JUN											
14...	67	35	7	.5	40	14	21	.25	<.02	.05	2.5

APALACHICOLA RIVER BASIN

02346180 FLINT RIVER NEAR THOMASTON, GA.

LOCATION.--Lat 32°50'20", long 84°25'27", Upson-Talbot County line, Hydrologic Unit 03130005, at downstream end of left bank pier of bridge on State Highway 36, 2.5 mi (4.0 km) upstream from Lazar Creek, and 7.8 mi (12.6 km) west of Thomaston.

DRAINAGE AREA.--1,220 mi² (3,160 km²), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 490.00 ft (149.35 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records fair except those of no gage-height record, Feb. 11-14 and Mar. 16 to May 17, which are poor.

AVERAGE DISCHARGE.--11 years, 1,808 ft³/s (51.2 m³/s), 20.13 in/yr (511.3 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,400 ft³/s (974 m³/s) Mar. 3, 1971, gage height, 18.4 ft (5.61 m), from floodmarks; minimum daily, 110 ft³/s (3.12 m³/s) Oct. 2, 1970.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Nov. 28, 1948 reached a stage of 19.3 ft (5.88 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,000 ft³/s (425 m³/s) Apr. 1, gage height, 13.74 ft (4.188 m); minimum daily, 222 ft³/s (6.29 m³/s) July 13, 14.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	495	689	2750	1930	1620	2690	12200	920	721	388	2800	1110
2	458	695	2490	1790	1530	2520	10000	1010	639	413	1500	820
3	387	690	1940	1900	1480	2150	5800	1000	570	464	2000	570
4	346	673	1430	2450	1450	1990	4200	960	528	605	4200	481
5	321	607	1220	2490	1430	2670	3500	910	487	551	3840	418
6	303	570	1140	2350	1390	3430	6000	850	462	486	2450	406
7	381	561	1400	2870	1320	4550	5400	740	437	405	1490	416
8	4000	544	1840	3220	1280	4110	4200	690	403	362	1040	628
9	3440	536	1820	3160	1240	3390	3510	670	396	315	736	685
10	2140	538	1680	4330	1220	2980	2800	650	373	262	845	791
11	1450	535	1530	4740	1200	2410	2400	600	363	253	1120	762
12	1130	551	3260	4880	1170	2220	2100	560	391	240	941	793
13	805	582	5580	4900	1160	3100	1900	540	387	222	860	709
14	640	631	4940	3650	1160	3430	1700	510	364	222	694	628
15	555	928	3840	3090	1150	3320	1550	490	347	232	556	572
16	504	1370	3480	2780	1140	3150	1450	480	358	345	521	533
17	535	1670	2840	2510	1110	2600	1380	470	369	378	484	523
18	577	1870	2320	2200	1070	2000	1300	481	447	294	470	623
19	597	1830	2010	2020	1040	1600	1220	469	725	270	485	931
20	693	1380	1810	1920	1020	2700	1140	495	770	260	588	818
21	763	1000	1860	1770	990	8000	1080	493	767	259	610	784
22	746	907	1830	1700	970	7200	1000	486	725	256	557	744
23	682	832	1800	1640	960	5400	930	487	597	241	521	670
24	641	772	1760	1720	2150	3800	1100	512	655	245	480	588
25	599	726	1720	2140	2580	3100	1700	610	592	307	455	514
26	594	729	4680	2170	2440	2800	1550	704	524	523	430	475
27	592	876	5100	2060	2700	2400	1350	897	586	1850	438	459
28	598	1520	3950	1950	3140	2100	1180	1080	526	1770	675	509
29	624	3000	3450	1890	---	2400	1020	1160	448	1200	735	538
30	647	3150	2740	1830	---	5000	960	950	402	1870	888	533
31	658	---	2130	1710	---	11000	---	830	---	4000	1200	---
TOTAL	26901	30962	80340	79760	41110	110210	85620	21704	15359	19488	34609	19031
MEAN	868	1032	2592	2573	1468	3555	2854	700	512	629	1116	634
MAX	4000	3150	5580	4900	3140	11000	12200	1160	770	4000	4200	1110
MIN	303	535	1140	1640	960	1600	930	469	347	222	430	406
CFSM	.71	.85	2.13	2.11	1.20	2.91	2.34	.57	.42	.52	.92	.52
IN.	.82	.94	2.45	2.43	1.25	3.36	2.61	.66	.47	.59	1.06	.58
CAL YR 1976	TOTAL	611301	MEAN	1670	MAX	21800	MIN	303	CFSM	1.37	IN	18.64
WTR YR 1977	TOTAL	565094	MEAN	1548	MAX	12200	MIN	222	CFSM	1.27	IN	17.23

02347500 FLINT RIVER NEAR CULLODEN, GA.

LOCATION.--Lat 32°43'17", long 84°13'57", Taylor-Upson County line, Hydrologic Unit 03130005, on left bank underneath bridge on U.S. Highway 19, 4 mi (6.4 km) upstream from Auchumpkee Creek, 5 mi (8.0 km) downstream from Swift Creek, 13 mi (20.9 km) southwest of Culloden, and at mile 238.4 (383.6 km).
DRAINAGE AREA.--1,850 mi² (4,790 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1911 to May 1923, July 1928 to December 1931, March 1937 to current year.
REVISED RECORDS.--WSP 697: 1911-23. WSP 1002: 1943. WSP 1504: 1913, 1916-17, 1918(M), 1919-22, 1923(M), drainage area.
GAGE.--Water-stage recorder. Datum of gage is 334.54 ft (101.97 m) above mean sea level. July 1, 1911 to Oct. 11, 1918, non-recording gage and Oct. 12, 1918 to May 31, 1923, water-stage recorder, at site 2.5 mi (4.0 km) downstream at different datum. July 21, 1928 to Dec. 31, 1931 and Mar. 18, 1937 to May 3, 1939, nonrecording gage at present site and datum.
REMARKS.--Records good.
AVERAGE DISCHARGE.--54 years (1911-22, 1928-31, 1937-77), 2,426 ft³/s (68.7 m³/s), 17.81 in/yr (452.4 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92,000 ft³/s (2,610 m³/s) Mar. 15, 1929, gage height, 38.4 ft (11.70 m), from graph based on gage readings; minimum observed, 92 ft³/s (2.61 m³/s) Oct. 4, 6, 7, 1931.
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1912, that of Mar. 15, 1929.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 11,000 ft³/s (312 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)
Mar. 13	0800	12000 340	13.81 4.209	Apr. 1	0100	14200 402	15.45 4.709
Mar. 22	1200	*21700 615	20.09 6.123	Aug. 4	0100	15600 442	16.33 4.977

Minimum discharge, 272 ft³/s (7.70 m³/s) July 15.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	716	956	4170	2430	2150	4080	13300	1410	1070	484	1650	913
2	641	949	3570	2200	2040	3490	12200	1400	946	505	1340	670
3	557	924	2900	2310	1950	3140	9990	1370	848	537	7940	570
4	491	909	2140	3300	1920	3230	6530	1360	782	613	12600	494
5	456	864	1750	3330	1910	4730	6070	1300	726	667	5650	466
6	434	806	1610	2980	1860	4940	6140	1230	684	597	2750	464
7	454	786	2200	3640	1780	6870	5610	1160	666	523	1820	628
8	4080	771	2940	4290	1700	6420	5510	1070	622	454	1380	762
9	6490	756	2660	3890	1660	5110	4570	1030	596	433	1060	808
10	3830	755	2310	6170	1630	4390	3450	994	565	379	951	843
11	2320	742	2070	6330	1600	3750	2940	956	537	331	1250	802
12	1680	768	3880	5680	1590	3540	2650	920	651	313	1280	817
13	1260	787	8000	5650	1590	10200	2460	872	702	304	1070	743
14	996	823	7410	5250	1610	6780	2310	848	576	290	967	665
15	863	1330	5440	5070	1610	5140	2160	824	529	287	821	636
16	780	2060	4900	4130	1600	4580	2030	800	536	290	737	605
17	817	2110	4050	3510	1550	3700	1910	776	545	300	666	565
18	918	2160	3220	3030	1490	2940	1830	746	694	376	634	648
19	888	2200	2710	2590	1450	2610	1770	716	1020	454	769	980
20	1030	1870	2370	2280	1430	2980	1700	770	1000	371	780	884
21	1250	1390	2390	2320	1410	5600	1630	752	933	341	722	812
22	1140	1220	2320	2220	1390	20100	1580	758	838	319	663	766
23	997	1120	2190	2120	1370	18900	1580	770	758	308	614	706
24	914	1050	2120	2120	2240	12400	1960	788	794	310	568	636
25	879	991	2030	2780	3970	8350	2090	920	702	288	543	561
26	912	972	7220	2920	3490	5580	1960	1080	642	286	531	503
27	894	1200	7760	2760	3600	3950	1750	2090	692	341	632	484
28	857	2810	5610	2650	4770	3360	1580	1910	677	513	825	501
29	842	7600	4540	2500	---	3800	1450	1980	584	846	812	541
30	871	5850	3730	2390	---	5400	1400	1510	519	1740	1110	562
31	932	---	2850	2260	---	12100	---	1230	---	2480	1110	---
TOTAL	40189	47549	113060	105100	56360	192160	112110	34340	21434	16280	54245	20035
MEAN	1296	1585	3647	3390	2013	6199	3737	1108	714	525	1750	668
MAX	6490	7600	8000	6330	4770	20100	13300	2090	1070	2480	12600	980
MIN	434	755	1610	2120	1370	2610	1400	716	519	286	531	464
CFSM	.70	.86	1.97	1.83	1.09	3.35	2.02	.60	.39	.28	.95	.36
IN.	.81	.96	2.27	2.11	1.13	3.86	2.25	.69	.43	.33	1.09	.40
CAL YR 1976	TOTAL	852758	MEAN	2330	MAX	22400	MIN	409	CFSM	1.26	IN	17.15
WTR YR 1977	TOTAL	812862	MEAN	2227	MAX	20100	MIN	286	CFSM	1.20	IN	16.35

APALACHICOLA RIVER BASIN

02347500 FLINT RIVER NEAR CULLODEN, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV						
16...	0915	2050	6.8	8.5	8.0	10.7
DEC						
21...	0850	2390	7.4	-3.0	7.0	11.6
JAN						
25...	1400	2860	7.0	9.0	3.0	13.4
MAR						
02...	1020	3490	7.1	8.0	8.5	10.6
APR						
05...	1045	6170	6.9	15.0	17.5	8.3
JUN						
14...	1415	566	7.3	30.0	28.5	6.6
JUL						
11...	1315	325	7.4	33.0	29.5	7.7
AUG						
17...	1100	662	7.2	27.0	27.5	6.9

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FFCAL COLI- FORM (EC B/100ML)
NOV					
16...	61	50	18	1.1	230
DEC					
21...	49	30	15	.5	91
JAN					
25...	49	30	12	.6	91
MAR					
02...	48	60	33	1.3	230
APR					
05...	42	90	39	.7	230
JUN					
14...	64	60	20	.5	90
JUL					
11...	89	--	6	<.1	40
AUG					
17...	74	--	18	.4	150

DATE	HARD- NESS (CA+MG) (MG/L)	ALKA- LITY AS CaCO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV						
16...	14	19	.14	<.02	.06	3.0
DEC						
21...	11	14	.20	<.02	.05	1.0
JAN						
25...	11	13	.23	.06	.05	2.0
MAR						
02...	11	14	.16	<.02	.07	3.0
APR						
05...	11	12	.16	<.02	.07	5.0
JUN						
14...	14	23	.09	<.02	.03	2.0
JUL						
11...	--	--	.10	<.02	.02	1.0
AUG						
17...	--	--	.27	<.02	.03	1.0

02349500 FLINT RIVER AT MONTEZUMA, GA.

LOCATION.--Lat 32°17'53", long 84°02'38", Macon County, Hydrologic Unit 03130006, near left bank on downstream end of pier of bridge on State Highways 26 and 49, 1,000 ft (305 m) upstream from Central of Georgia Railway bridge, 1,400 ft (427 m) upstream from Seaboard Coast Line Railroad (formerly Atlanta, Birmingham and Coast) bridge, just upstream from Buck Creek, 1 mi (1.6 km) west of Montezuma, and at mile 180.6 (290.6 km).

DRAINAGE AREA.--2,900 mi² (7,500 km²), approximately; includes that of Buck Creek.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1904 to December 1912 (published as "near Montezuma"), July 1930 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at same site since 1904 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 822: Drainage area. WSP 852: 1936(M). WSP 1504: 1905-9, 1911-12, drainage area (at site used prior to 1912).

GAGE.--Water-stage recorder. Datum of gage is 255.83 ft (77.98 m) above mean sea level. January 1905 to December 1909, and January 1911 to December 1912, nonrecording gage at site 1.5 mi (2.4 km) upstream at same datum. July 1, 1930 to June 30, 1933, and Oct. 1, 1934 to Dec. 12, 1941, nonrecording gage, and Dec. 13, 1941 to Oct. 25, 1955, water-stage recorder at site 500 ft (152 m) downstream at same datum.

REMARKS.--Records good. Records include flow of Buck Creek. Prior to Dec. 31, 1963, when operation was discontinued, moderate diurnal fluctuation at low flow caused by powerplant above station.

AVERAGE DISCHARGE.--55 years, 3,615 ft³/s (102 m³/s), 16.93 in/yr (430.0 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,900 ft³/s (1,950 m³/s) Nov. 30, 1948, gage height, 25.2 ft (7.68 m); minimum daily, 585 ft³/s (16.6 m³/s) Oct. 26, 1941, Sept. 23, 1956.

FLOODS OUTSIDE PERIOD OF RECORD.--Flood on Mar. 2, 1897 reached a stage of 26.0 ft (7.92 m) at former site, from National Weather Service, discharge, 97,000 ft³/s (2,750 m³/s), from rating curve extended above 10,000 ft³/s (283 m³/s) on basis of peak flows passing upstream and downstream stations.

Flood on Mar. 17, 1929 reached a stage of 27.4 ft (8.35 m), at present site, from National Weather Service, discharge, 92,300 ft³/s (2,610 m³/s), from rating curve extended above 65,000 ft³/s (1,840 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21,200 ft³/s (600 m³/s) Mar. 25, gage height, 17.39 ft (5.30 m); minimum daily discharge, 865 ft³/s (24.5 m³/s) July 18.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2420	2020	8170	5410	3620	5780	8380	2520	2330	1290	3500	1800
2	2190	2030	8700	4250	3520	5970	9710	2500	2100	1260	2970	1730
3	1890	1970	7840	4060	3400	5220	13600	2470	1920	1240	2930	1540
4	1610	1900	5470	4540	3370	4890	15200	2410	1760	1210	5440	1440
5	1470	1840	4070	5280	3380	5590	14300	2400	1630	1180	6840	1380
6	1430	1790	3440	5450	3330	6900	12500	2320	1540	1160	7850	1320
7	1420	1770	3590	5140	3200	8060	10400	2220	1510	1140	8900	1300
8	1590	1680	4580	5180	3070	8380	9050	2150	1460	1110	6200	1320
9	2930	1650	5310	5770	2980	8610	8100	2080	1370	1090	3030	1480
10	5450	1630	5110	6180	2910	8730	7400	2010	1340	1070	2440	1550
11	5870	1620	4500	6790	2860	8100	6220	1960	1330	1040	2150	1590
12	4280	1640	4160	7630	2840	6660	4940	1910	1310	1020	2080	1560
13	2960	1660	5280	8150	2820	6630	4340	1860	1300	1000	2200	1540
14	2430	1700	7190	8260	2810	7580	4010	1810	1340	965	2080	1500
15	2110	1780	8280	8370	2810	8620	3770	1780	1310	935	1950	1420
16	1900	2120	9080	8170	2780	9900	3590	1740	1290	908	1860	1400
17	1840	2930	9150	7710	2740	9860	3410	1710	1290	892	1720	1420
18	2010	3230	8080	6470	2680	7850	3260	1670	1290	865	1630	1390
19	2120	3210	6140	5140	2620	5520	3140	1630	1290	897	1570	1490
20	2630	3190	4860	4400	2610	4500	3050	1590	1450	970	1670	1710
21	3100	2980	4290	3950	2590	4450	2950	1610	1620	1010	1670	1800
22	2980	2560	4070	3860	2540	6830	2960	1660	1560	952	1600	1640
23	2650	2290	3960	3760	2500	8610	2840	1640	1540	911	1490	1550
24	2280	2140	3780	3690	2800	12000	2930	1650	1490	916	1410	1460
25	2080	2040	3700	3780	3770	19900	3250	1650	1440	911	1390	1380
26	2160	2030	4430	4200	5060	19800	3400	1730	1400	938	1410	1340
27	2220	2330	6290	4410	5300	15500	3220	1940	1320	988	1480	1390
28	2140	2960	7740	4260	5140	11700	2940	2810	1320	1300	1450	1340
29	1970	4810	8740	4100	---	8050	2730	3360	1320	1990	1530	1270
30	1870	7150	9020	3900	---	5620	2580	3420	1320	2230	1560	1240
31	1910	---	7700	3740	---	6790	---	2800	---	2950	1660	---
TOTAL	75910	72600	186720	166000	90050	262600	178070	65010	44490	36338	85660	44290
MEAN	2449	2420	6023	5355	3216	8471	5936	2097	1483	1172	2763	1476
MAX	5870	7150	9150	8370	5300	19900	15200	3420	2330	2950	8900	1800
MIN	1420	1620	3440	3690	2500	4450	2580	1590	1290	865	1390	1240
CFSM	.84	.83	2.08	1.85	1.11	2.92	2.05	.72	.51	.40	.95	.51
IN.	.97	.93	2.40	2.13	1.16	3.37	2.28	.83	.57	.47	1.10	.57
CAL YR 1976 TOTAL	1355350			3703		22400		1220		1.28		17.39
WTR YR 1977 TOTAL	1307738			3583		19900		865		1.24		16.78

APALACHICOLA RIVER BASIN

02349500 FLINT RIVER AT MONTEZUMA, GA.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.12	3.41	10.66	7.77	5.89	8.38	10.85	4.29	4.01	---	5.72	3.01
2	3.72	3.44	11.13	6.50	5.74	8.57	11.92	4.25	3.63	---	4.96	2.88
3	3.18	3.33	10.33	6.28	5.58	7.79	14.37	4.21	3.31	---	4.90	2.55
4	2.67	3.20	7.96	6.85	5.54	7.43	15.16	4.11	3.03	---	8.00	2.37
5	2.42	3.09	6.37	7.69	5.55	8.18	14.77	4.08	2.81	---	9.43	2.25
6	2.35	2.99	5.51	7.89	5.47	9.49	13.74	3.95	2.68	---	10.37	2.14
7	2.33	2.88	5.68	7.58	5.29	10.56	12.44	3.79	2.64	---	11.32	2.10
8	2.64	2.79	6.87	7.63	5.11	10.85	11.43	3.66	2.57	---	8.71	2.14
9	4.79	2.75	7.66	8.26	4.97	11.05	10.59	3.53	2.42	---	5.04	2.43
10	8.03	2.71	7.40	8.68	4.87	11.16	9.96	3.41	2.39	---	4.14	2.56
11	8.47	2.70	6.68	9.30	4.79	10.59	8.83	3.31	2.38	---	3.65	2.64
12	6.70	2.72	6.25	10.09	4.77	9.26	7.49	3.21	2.37	---	3.53	2.57
13	4.95	2.77	7.46	10.57	4.74	9.24	6.79	3.13	2.36	---	3.75	2.54
14	4.13	2.83	9.30	10.64	4.72	10.13	6.39	3.04	2.47	---	3.53	2.47
15	3.58	2.99	10.37	10.79	4.72	11.06	6.09	2.97	2.41	---	3.30	2.32
16	3.20	3.59	11.09	10.62	4.68	12.09	5.84	2.90	2.39	---	3.12	2.29
17	3.10	4.90	11.16	10.22	4.62	12.06	5.59	2.84	2.38	---	2.87	2.32
18	3.39	5.32	10.22	9.05	4.53	10.36	5.38	2.77	2.37	---	2.71	2.27
19	3.60	5.29	8.39	7.69	4.44	8.09	5.20	2.70	2.38	1.44	2.61	2.45
20	4.43	5.27	7.05	6.86	4.42	6.97	5.08	2.64	2.67	1.60	2.78	2.85
21	5.15	4.97	6.41	6.32	4.39	6.91	4.93	2.67	2.96	1.69	2.79	3.03
22	4.97	4.35	6.16	6.21	4.31	9.40	4.80	2.76	2.85	1.56	2.66	2.74
23	4.49	3.89	6.03	6.08	4.26	11.05	4.77	2.73	2.82	1.47	2.46	2.56
24	3.88	3.64	5.81	5.98	4.70	13.37	4.90	2.74	2.72	1.48	2.31	2.40
25	3.53	3.46	5.72	6.10	6.06	16.90	5.36	2.75	2.63	1.47	2.28	2.26
26	3.68	3.44	6.62	6.62	7.62	16.90	5.58	2.89	2.56	1.43	2.31	2.19
27	3.79	3.96	8.64	6.88	7.88	15.28	5.32	3.28	2.41	1.54	2.43	2.27
28	3.64	4.94	10.03	6.70	7.70	13.29	4.92	4.70	2.39	2.20	2.37	2.17
29	3.33	7.11	10.94	6.50	---	10.53	4.60	5.52	2.39	3.47	2.53	2.04
30	3.15	9.71	11.19	6.25	---	8.21	4.38	5.60	---	3.90	2.57	1.99
31	3.21	---	10.02	6.05	---	9.37	---	4.71	---	4.92	2.77	---
MEAN	4.02	3.95	8.23	7.76	5.26	10.47	7.92	3.52	---	---	4.26	2.43
MAX	8.47	9.71	11.19	10.79	7.88	16.90	15.16	5.60	---	---	11.32	3.03
MIN	2.33	2.70	5.51	5.98	4.26	6.91	4.38	2.64	---	---	2.28	1.99

APALACHICOLA RIVER BASIN

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02349500 FLINT RIVER AT MONTEZUMA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to July 1974, August 1976 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV 09...	1530	1650	7.0	16.0	9.5	11.1
FEB 15...	1515	2800	6.9	15.0	10.0	10.2
MAY 09...	1015	2090	7.0	25.0	23.0	7.3
JUL 11...	0900	1040	6.8	28.0	27.0	6.6
AUG 15...	1015	1940	6.5	27.0	24.0	6.6

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MH/OS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA+MG) (MG/L)
NOV 09...	53	45	6	.5	<52	10
FEB 15...	34	10	11	.8	<30	10
MAY 09...	50	40	13	.1	<30	10
JUL 11...	55	35	12	1.2	40	--
AUG 15...	52	60	74	2.3	<30	--

DATE	ALKA- LINITY AS CaCO3 (MG/L)	TOTAL NON- FILT- PABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 09...	16	--	.12	<.02	.02	3.0
FEB 15...	13	--	.25	<.02	.04	4.0
MAY 09...	15	--	.24	<.02	.03	2.0
JUL 11...	--	10	.13	<.02	.02	3.5
AUG 15...	--	200	.36	.07	.47	14

APALACHICOLA RIVER BASIN

02349900 TURKEY CREEK AT BYROMVILLE, GA.

LOCATION.--Lat 32°11'44", long 83°54'03", Dooly County, Hydrologic Unit 03130006, on downstream side of bridge on State Highway 90, 0.5 mi (0.8 km) southwest of Byromville, and 11 mi (17.7 km) upstream from mouth.

DRAINAGE AREA.--45 mi² (117 km²), approximately.

PERIOD OF RECORD.--Water years 1951-58 (annual maximum), June 1958 to current year.

GAGE.--Water-stage recorder. Prior to June 19, 1958, crest-stage gage at site 50 ft (15 m) upstream at same datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--19 years (1958-77), 50.5 ft³/s (1.43 m³/s), 15.24 in/yr (387.1 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,940 ft³/s (112 m³/s) Mar. 31, 1970, gage height, 13.30 ft (4.054 m); 0.1 ft³/s (0.003 m³/s) July 28, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharge above 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)	
Nov. 29	0900	504	14.3	9.81	2.990	Mar. 13	1500	1030	29.2	10.67	3.252
Mar. 7	0700	640	18.1	10.07	3.069	Mar. 22	1400	*1280	36.2	10.85	3.307

Minimum daily discharge, 4.0 ft³/s (0.113 m³/s) July 12.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	18	133	64	57	74	169	20	15	8.6	42	7.2
2	14	18	104	56	52	52	122	17	13	7.6	31	8.6
3	13	17	87	88	49	42	106	16	11	7.6	149	8.2
4	12	17	74	159	55	141	90	15	9.7	6.5	360	9.5
5	11	17	65	112	55	387	138	14	9.1	5.2	118	9.4
6	15	17	63	91	47	284	159	14	9.2	6.6	50	9.1
7	17	17	148	135	41	548	99	13	14	5.0	27	11
8	19	18	159	135	39	304	82	11	10	4.3	17	11
9	21	19	103	102	37	206	69	12	8.9	4.3	13	9.1
10	19	19	82	248	36	159	59	12	8.3	5.0	11	10
11	16	19	82	232	35	145	51	12	7.2	5.1	9.8	10
12	15	20	104	136	34	144	46	11	7.6	4.0	8.2	8.3
13	14	19	164	113	35	770	45	10	8.5	6.1	8.2	7.6
14	14	21	138	169	34	405	41	10	7.0	7.2	7.9	7.4
15	14	25	122	304	33	213	36	10	6.2	6.2	7.8	7.4
16	14	25	109	173	30	167	33	10	6.2	6.1	7.8	7.5
17	26	27	92	126	28	141	29	9.4	6.3	4.8	7.6	8.8
18	35	25	79	107	28	122	28	9.8	6.7	4.6	7.4	14
19	19	22	71	95	28	111	26	9.5	7.4	5.0	34	13
20	37	23	74	85	32	101	24	25	6.3	5.8	32	8.5
21	54	22	79	83	29	122	22	16	6.2	4.8	14	7.8
22	25	21	66	76	26	964	22	17	8.3	4.9	11	7.2
23	19	20	57	71	25	476	28	13	7.2	4.3	9.2	7.0
24	17	20	56	75	72	250	41	12	6.2	4.9	7.8	6.7
25	18	20	68	87	96	188	30	12	5.8	5.2	7.9	6.6
26	20	26	196	73	52	156	24	11	7.1	5.4	7.6	6.7
27	19	78	169	69	57	136	21	11	10	16	8.3	7.1
28	17	217	110	75	95	120	19	11	7.4	266	8.2	6.9
29	17	452	94	68	---	117	18	21	7.1	488	7.5	6.6
30	20	238	78	57	---	110	22	15	9.1	204	7.4	7.1
31	19	---	70	57	---	143	---	32	---	84	7.2	---
TOTAL	606	1517	3096	3521	1237	7298	1699	431.7	252.0	1203.1	1044.8	255.3
MEAN	19.5	50.6	99.9	114	44.2	235	56.6	13.9	8.40	38.8	33.7	8.51
MAX	54	452	196	304	96	964	169	32	15	488	360	14
MIN	11	17	56	56	25	42	18	9.4	5.8	4.0	7.2	6.6
CFSM	.43	1.12	2.22	2.53	.98	5.22	1.26	.31	.19	.86	.75	.19
IN.	.50	1.25	2.56	2.91	1.02	6.03	1.40	.36	.21	.99	.86	.21
CAL YR 1976	TOTAL	17871.3	MEAN 48.8	MAX 1610	MIN 6.8	CFSM 1.08	IN 14.77					
WTR YR 1977	TOTAL	22160.9	MEAN 60.7	MAX 964	MIN 4.0	CFSM 1.35	IN 18.32					

APALACHICOLA RIVER BASIN

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02350600 KINCHAFOONEE CREEK AT PRESTON, GA.

LOCATION.--Lat 32°03'09", long 84°32'54", Webster County, Hydrologic Unit 03130007, near right bank on downstream side of bridge on State Highway 41, 1 mi (1.6 km) southwest of Preston, and 1 mi (1.6 km) upstream from Harrel Mill Creek.

DRAINAGE AREA.--197 mi² (510 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1951 to September 1977 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 337.7 ft (102.93 m) above mean sea level (levels by Georgia Department of Transportation).

REMARKS.--Records fair.

AVERAGE DISCHARGE.--26 years, 215 ft³/s (6.09 m³/s), 14.82 in/yr (376.4 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,200 ft³/s (232 m³/s) Mar. 30, 1970, gage height, 8.96 ft (2.73 m); minimum, 18 ft³/s (0.51 m³/s) Aug. 12, 1969.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1900, 11.4 ft (3.48 m) in January 1943, from information by Georgia Department of Transportation.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 900 ft³/s (25.5 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)
Nov. 30	0100	*1920 54.4	6.93 2.112	Mar. 6	1100	1010 28.6	6.01 1.832
Dec. 15	1500	976 27.6	5.97 1.820	Mar. 23	1000	1460 41.3	6.52 1.987
Jan. 15	2400	1100 31.2	6.13 1.868				

Minimum discharge, 44 ft³/s (1.25 m³/s) July 24, 25, 26.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	266	272	756	266	272	462	324	133	106	87	129	69
2	196	221	450	251	268	302	342	151	96	90	104	64
3	131	189	372	330	263	260	318	136	90	92	169	63
4	117	180	332	474	289	348	283	125	80	87	200	84
5	109	174	302	500	312	631	385	116	75	94	150	100
6	117	168	293	357	281	952	468	110	74	102	109	120
7	185	165	407	362	250	880	387	108	82	88	86	148
8	281	166	540	417	238	805	280	104	86	75	73	179
9	350	164	544	367	233	520	247	110	80	65	69	168
10	338	163	372	471	232	390	224	116	70	59	69	119
11	238	168	320	656	227	387	211	103	66	58	68	96
12	158	172	380	544	226	415	204	97	65	56	59	83
13	138	175	580	355	227	613	198	93	66	55	55	76
14	130	176	592	450	229	756	190	90	64	54	54	74
15	124	188	568	770	221	504	184	89	59	58	53	77
16	120	212	388	872	215	372	176	85	57	60	76	81
17	266	224	346	468	209	334	170	82	58	54	114	83
18	442	256	307	360	208	312	163	79	66	51	78	105
19	400	251	284	334	206	301	160	79	83	56	75	191
20	332	244	290	324	220	299	158	83	81	60	89	143
21	430	248	328	312	224	342	152	87	76	54	85	111
22	437	216	326	305	204	888	150	96	70	50	71	92
23	238	188	281	296	198	1260	176	91	119	45	64	82
24	187	187	265	312	277	714	210	86	110	44	58	76
25	187	198	269	357	422	430	185	91	102	44	115	73
26	260	221	422	346	413	360	159	98	128	45	144	94
27	324	447	604	305	326	328	149	136	89	52	124	180
28	268	812	484	305	450	308	140	260	92	82	126	166
29	197	1420	336	302	---	314	136	188	74	166	98	115
30	188	1550	299	275	---	350	132	146	67	210	79	105
31	235	---	289	266	---	338	---	119	---	194	76	---
TOTAL	7389	9415	12326	12309	7340	15475	6661	3487	2431	2387	2919	3217
MEAN	238	314	398	397	262	499	222	112	81.0	77.0	94.2	107
MAX	442	1550	756	872	450	1260	468	260	128	210	200	191
MIN	109	163	265	251	198	260	132	79	57	44	53	63
CFSM	1.21	1.59	2.02	2.02	1.33	2.53	1.13	.57	.41	.39	.48	.54
IN.	1.40	1.78	2.33	2.32	1.39	2.92	1.26	.66	.46	.45	.55	.61

CAL YR 1976	TOTAL	92930	MEAN 254	MAX 1700	MIN 65	CFSM 1.29	IN 17.55
WTR YR 1977	TOTAL	85356	MEAN 234	MAX 1550	MIN 44	CFSM 1.19	IN 16.12

APALACHICOLA RIVER BASIN

02350600 KINCHAFOONEE CREEK AT PRESTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1969 to September 1970, November 1971 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)							
SEP 07...	1010	142	23.5							
DATE	COLOR (PLAT- INUM- CORAL UNITS)	HARD- NESS (CA,MG)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)
SEP 07...	120	9	1	2.6	.6	1.7	.8	10	0	8
DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (NO3) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
SEP 07...	1.2	3.1	.0	7.8	30	24	11.5	.11	.49	.00
DATE	DIS- SOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SUS- PENDED KJEL. NITRO- GEN (N) (MG/L)
SEP 07...	.00	.11	.11	.09	.09	.12	.43	.43	.52	.00
DATE	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)
SEP 07...	.52	.63	2.8	.02	.02	.01	.01	.03	0	0
DATE	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	
SEP 07...	0	0	2	690	0	90	<.5	0	10	

02350600 KINCHAFOONEE CREEK AT PRESTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT MENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)
OCT 26...	0955	252	20	14
DEC 16...	1150	390	4	4.2
JAN 11...	1655	735	9	18
MAR 02...	1430	295	21	17
APR 26...	1610	157	64	27
JUN 16...	1340	56	32	4.8
AUG 26...	1245	137	32	12

02352500 FLINT RIVER AT ALBANY, GA.

LOCATION.--Lat 31°35'39", long 84°04'39", Dougherty County, Hydrologic Unit 03130008, on right bank at downstream side of Georgia Northern Railway bridge in Albany, and at mile 103.4 (166.4 km).
DRAINAGE AREA.--5,310 mi² (13,800 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1897 to September 1901 (gage heights only), October 1901 to June 1921, September 1929 to current year. Monthly discharges only for some periods, published in WSP 1304. Gage-height records collected at site 1 mi (1.6 km) downstream since 1893 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1504; 1902, 1913(M), 1916-17, 1919-21, 1930(m), 1934(m), drainage area.

GAGE.--Water-stage recorder. Datum of gage is 150.03 ft (45.73 m) above mean sea level. Prior to Jan. 1, 1902, nonrecording gage at site 1 mi (1.6 km) downstream at datum 1.3 ft (0.40 m) lower. Jan. 1, 1902 to June 30, 1921, nonrecording gage at site 1 mi (1.6 km) downstream at datum 2.0 ft (0.61 m) lower.

REMARKS.--Records good. Flow regulated by powerplants at Flint River Reservoir since 1921, capacity, 7,500 acre-ft (9.25 hm³); and at Warwick Reservoir since 1930, capacity about 35,000 acre-ft (43.2 hm³). Normal operation of powerplants does not materially affect figures of monthly runoff.

AVERAGE DISCHARGE.--67 years (1901-20, 1929-77), 6,344 ft³/s (180 m³/s), 16.22 in/yr (412.0 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 77,000 ft³/s (2,180 m³/s) Mar. 7, 1966, gage height, 34.72 ft (10.583 m); minimum daily, 327 ft³/s (9.26 m³/s) Aug. 24, 1930.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1893, 37.84 ft (11.534 m) Jan. 21, 1925, from floodmark, present site and datum, discharge, 92,000 ft³/s (2,610 m³/s) from rating curve extended above 75,000 ft³/s (2,120 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 28,700 ft³/s (813 m³/s) Mar. 8, gage height, 20.60 ft (6.279 m); minimum daily, 960 ft³/s (27.2 m³/s) July 25.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1790	4950	22400	13900	8480	10400	10400	3670	4580	2140	6760	1930
2	3250	3350	21300	8910	7010	10800	11500	4090	4540	1900	4140	2310
3	3530	3720	16100	10700	6940	10500	17200	4610	3190	1270	4300	1930
4	3980	3140	13700	10600	7140	11700	17000	4360	2630	966	5150	1320
5	2130	4940	11100	12300	7560	14900	17700	4040	1810	1590	5630	1730
6	2820	4210	9280	14100	6810	16300	20000	4070	2850	1760	10500	2710
7	2980	3370	8650	12300	7250	23500	18300	3640	3620	2200	9650	4150
8	3200	2900	9220	12600	7250	26500	15600	3230	1310	2430	9570	2040
9	2900	5430	10800	11000	6670	27900	12400	2890	1780	2200	9690	2770
10	4750	4640	10700	14300	6740	18800	11600	3590	2190	2180	3870	2580
11	10200	2170	11000	14300	6310	13300	11400	1760	1260	1820	4050	2280
12	9240	2050	11000	15200	5500	13500	7870	2020	1900	2100	2850	3600
13	8200	2830	10100	14900	3520	17100	7730	2170	3100	1940	2560	2870
14	5420	3290	11600	16400	6290	15000	5990	2350	2930	2200	1770	3040
15	3610	3710	15000	16700	5280	17300	6010	2720	2870	2380	2770	2520
16	3030	4400	16600	19600	5930	19100	6050	3090	2280	1800	2420	2190
17	1650	4000	10600	17900	6410	16600	5150	2510	2200	1330	3540	1880
18	4600	4070	13100	16000	6090	16700	5390	3150	1970	1430	4110	2170
19	4800	3210	13000	14500	4580	14200	5200	3780	1530	1900	3440	2790
20	5820	6430	10900	11100	4600	9980	4610	2990	1760	2290	2230	2340
21	6650	4990	10000	10300	5220	12000	4280	1610	2400	2130	1360	2790
22	7090	6040	8340	9290	6420	12700	4410	1270	2660	2360	2610	3180
23	4080	7660	6640	7100	5260	19800	4540	1740	2650	1870	3020	2830
24	4820	5960	7460	8230	5520	21200	4750	3220	2250	1150	2690	2670
25	7000	5540	7340	8850	5220	21200	4840	2800	2240	960	2190	1770
26	5820	1970	9760	8630	7030	21100	4880	2970	2380	1440	1950	2870
27	4280	4350	9990	8220	10400	23900	5800	3270	2340	1570	2500	2630
28	4730	6020	10200	8940	13000	26000	4610	2890	2290	1820	3120	2690
29	6640	14800	16100	10000	---	22300	4370	2160	2080	1910	3410	2060
30	3390	16700	13200	8290	---	14600	3970	4470	1930	2770	4000	1900
31	3430	---	13100	6630	---	10200	---	6720	---	1860	3780	---
TOTAL	145830	150920	368280	371790	184430	529080	263550	97850	73520	57666	129630	74540
MEAN	4704	5031	11880	11990	6587	17070	8785	3156	2451	1860	4182	2485
MAX	10200	16700	22400	19600	13000	27900	20000	6720	4580	2770	10500	4150
MIN	1650	1970	6640	6630	3520	9980	3970	1270	1260	960	1360	1320
CFSM	.89	.95	2.24	2.26	1.24	3.22	1.65	.59	.46	.35	.79	.47
IN.	1.02	1.06	2.58	2.60	1.29	3.71	1.85	.69	.52	.40	.91	.52
CAL YR 1976	TOTAL	2423510	MEAN	6622	MAX	24400	MIN	1280	CFSM	1.25	IN	16.98
WTR YR 1977	TOTAL	2447086	MEAN	6704	MAX	27900	MIN	960	CFSM	1.26	IN	17.14

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

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.24	5.49	16.81	10.68	7.49	8.50	8.49	4.76	5.31	3.65	6.57	3.32
2	4.60	4.56	16.04	7.73	6.67	8.74	9.18	5.14	5.30	3.41	5.06	3.69
3	4.76	4.87	12.14	8.68	6.58	8.58	12.98	5.33	4.41	2.61	5.12	3.33
4	5.03	4.49	10.53	8.60	6.51	9.31	12.82	5.22	4.04	2.21	5.67	2.60
5	3.54	5.56	8.88	9.62	6.89	11.32	13.34	5.01	3.30	3.02	5.99	3.09
6	4.22	5.00	7.91	10.76	6.51	12.34	15.09	5.00	4.23	3.25	8.61	3.85
7	4.36	4.41	7.57	9.24	6.75	17.66	13.82	4.72	4.78	3.70	8.14	5.10
8	4.51	3.99	7.87	9.76	6.74	19.36	11.82	4.52	2.66	3.89	8.11	3.50
9	4.31	5.86	8.70	8.84	6.43	20.16	9.72	4.28	3.23	3.69	8.19	4.23
10	5.51	5.45	8.69	10.89	6.48	14.19	9.31	4.78	3.68	3.65	4.76	4.03
11	8.38	3.61	8.84	10.90	6.24	10.30	9.14	3.20	2.60	3.32	5.13	3.74
12	7.87	3.57	8.84	11.51	5.94	10.39	7.18	3.54	3.31	3.60	4.23	4.79
13	7.34	4.19	8.32	11.31	4.76	12.92	7.09	3.66	4.40	3.43	4.02	4.27
14	5.71	4.36	9.21	12.36	6.32	11.37	6.17	3.81	4.32	3.68	3.23	4.35
15	4.72	4.79	11.38	12.57	5.76	13.11	6.18	4.03	4.27	3.85	4.19	3.95
16	4.24	5.24	12.51	14.76	6.18	14.38	6.22	4.30	3.75	3.30	3.89	3.69
17	3.03	4.98	8.62	13.49	6.42	12.53	5.71	3.97	3.68	2.72	4.69	3.39
18	5.37	5.00	10.21	12.09	6.26	12.61	5.85	4.44	3.43	2.82	5.02	3.64
19	5.48	4.58	10.05	11.05	5.33	10.83	5.70	4.79	2.99	3.38	4.70	4.12
20	6.06	6.40	8.78	8.92	5.38	8.34	5.32	4.31	3.24	3.75	3.67	3.86
21	6.53	5.64	8.29	8.45	5.76	9.47	5.11	3.05	3.87	3.62	2.76	4.23
22	6.76	6.20	7.41	7.91	6.40	9.89	5.24	2.63	4.12	3.82	3.97	4.43
23	4.99	7.05	6.52	6.77	5.79	14.97	5.33	3.15	4.11	3.35	4.31	4.27
24	5.51	6.08	6.95	7.36	5.95	16.01	5.45	4.55	3.73	2.47	4.10	4.15
25	6.72	5.91	6.91	7.70	5.75	15.94	5.50	4.13	3.72	2.20	3.70	3.08
26	6.04	3.22	8.17	7.57	6.73	15.93	5.52	4.34	3.85	2.85	3.46	4.14
27	5.05	5.26	8.39	7.36	8.52	17.86	6.06	4.61	3.82	3.00	3.87	4.01
28	5.44	6.17	12.17	7.72	10.07	19.17	5.36	4.30	3.79	3.31	4.20	4.11
29	6.51	11.27	10.19	8.30	---	16.69	5.22	3.68	3.57	3.40	4.48	3.57
30	4.43	12.57	10.14	7.40	---	11.14	4.91	5.31	3.43	4.20	4.89	3.41
31	4.59	---	10.68	6.51	---	8.43	---	6.57	---	3.24	4.75	---
MEAN	5.32	5.53	9.60	9.57	6.45	12.98	7.83	4.36	3.83	3.30	4.95	3.86
MAX	8.38	12.57	16.81	14.76	10.07	20.16	15.09	6.57	5.31	4.20	8.61	5.10
MIN	3.03	3.22	6.52	6.51	4.76	8.34	4.91	2.63	2.60	2.20	2.76	2.60
WTR YR 1977 MEAN 6.48 MAX 20.16 MIN 2.20												

APALACHICOLA RIVER BASIN

02352500 FLINT RIVER AT ALBANY, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV 09...	1300	3430	7.4	13.0	11.0	10.4
FEB 15...	1320	5420	7.2	15.0	10.0	11.0
MAY 09...	1150	2490	7.4	30.5	24.0	7.4
AUG 15...	1130	2020	6.8	30.5	28.0	5.3

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)
NOV 09...	71	60	8	.6	9300
FEB 15...	108	10	10	1.9	9300
MAY 09...	69	40	10	.8	30
AUG 15...	73	70	28	1.6	930000

DATE	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CaCO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 09...	22	22	.23	.33	.31	10
FEB 15...	38	33	.51	.25	.24	5.0
MAY 09...	24	24	.33	<.02	.03	3.0
AUG 15...	--	--	.22	.20	.11	5.0

02352790 FLINT RIVER NEAR PUTNEY, GA.

LOCATION.--Lat 31°26'39", long 84°08'16", Dougherty County, Hydrologic Unit 03130008, at Plant Mitchell intake, and 2.5 mi (4.0 km) south of Putney.

DRAINAGE AREA.--5,340 mi² (13,800 km²), approximately.

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

REMARKS.--Flow regulated by powerplants at Flint River and Warwick Reservoirs. (See remarks for station 02352500.) Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT						
07...	1330	3380	7.2	24.0	24.5	7.1
NOV						
09...	1200	6200	7.3	12.0	13.0	10.2
DEC						
08...	1615	8700	7.3	7.0	10.0	10.9
JAN						
18...	1430	16400	7.3	-1.0	5.0	12.4
FEB						
15...	1200	6090	7.4	14.0	10.0	11.0
MAR						
09...	1600	31400	7.0	19.5	13.0	8.6
APR						
07...	1515	19600	7.2	21.0	19.5	8.0
MAY						
09...	1220	2350	7.3	30.5	24.0	6.2
JUN						
16...	1515	2350	7.4	36.5	29.5	5.0
JUL						
14...	1445	2670	7.6	37.0	30.5	7.5
AUG						
15...	1310	3110	7.2	31.0	29.5	5.5
SEP						
12...	0915	4420	7.4	27.0	27.0	6.8

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA.MG) (MG/L)
OCT						
07...	85	25	6	.6	9300	26
NOV						
09...	70	55	9	.4	1500	22
DEC						
08...	68	70	22	1.1	--	23
JAN						
18...	58	55	25	.6	1125	19
FEB						
15...	83	10	7	.4	230	30
MAR						
09...	--	--	--	--	--	--
09...	54	110	36	1.0	9300	17
APR						
07...	56	100	32	.8	2300	18
MAY						
09...	114	30	8	.7	2300	42
JUN						
16...	96	25	6	.4	4300	32
JUL						
14...	115	30	10	.9	2300	--
AUG						
15...	90	50	25	1.0	23000	--
SEP						
12...	84	40	15	1.0	7500	--

APALACHICOLA RIVER BASIN

02352790 FLINT RIVER NEAR PUTNEY, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	ALKA- LITY AS CAC03 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL RESI- DUE (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT							
07...	27	.30	--	--	.14	.08	10
NOV							
09...	22	.23	--	--	.09	.12	4.0
DEC							
08...	22	.27	--	--	.08	.06	5.0
JAN							
18...	17	.33	--	--	.08	.07	8.0
FEB							
15...	28	.54	--	--	.13	.05	2.0
MAR							
09...	--	--	--	--	--	--	9.0
09...	16	.20	--	--	<.02	.08	19
APR							
07...	18	.21	--	--	.07	.07	5.0
MAY							
09...	42	.58	--	--	.16	.07	3.0
JUN							
16...	34	.34	--	--	.16	.14	3.0
JUL							
14...	--	.46	<1	--	.23	.11	2.0
AUG							
15...	--	.33	5	--	.17	.05	5.0
SEP							
12...	--	.21	9	9	.13	--	4.0

02353000 FLINT RIVER AT NEWTON, GA.

LOCATION.--Lat 31°18'34", long 84°20'06", Baker-Mitchell County line, Hydrologic Unit 03130008, on downstream side of pier of bridge on State Highway 37 at Newton, 1 mi (1.6 km) downstream from Coolewahee Creek, and at mile 69.5 (111.8 km).
DRAINAGE AREA.--5,740 mi² (14,900 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1938 to September 1950 (monthly discharge only for some periods, published in WSP 1304), October 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 110.20 ft (33.59 m) above mean sea level (levels by Corps of Engineers). Prior to Nov. 12, 1956, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow regulated by powerplants at Flint River Reservoir since 1921, capacity, 7,500 acre-ft (9.25 hm³); and at Warwick Reservoir since 1930, capacity, about 35,000 acre-ft (43.2 hm³). Normal operation of powerplants does not materially affect figures of monthly runoff.

AVERAGE DISCHARGE.--33 years, 7,148 ft³/s (202 m³/s), 16.91 in/yr (429.5 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 66,000 ft³/s (1,870 m³/s) Mar. 9, 1966, gage height, 34.9 ft (10.64 m); minimum, 790 ft³/s (22.4 m³/s) Oct. 20, Nov. 10, 1940.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1893, 41.3 ft (12.59 m) Jan. 21, 1925, from floodmarks; discharge, 94,000 ft³/s (2,660 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26,000 ft³/s (736 m³/s) Mar. 10, gage height, 20.13 ft (6.136 m); minimum, 1,510 ft³/s (42.8 m³/s) July 26.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2870	5150	15700	12300	8520	10500	11200	4350	4700	2560	2100	3120
2	2690	4500	20200	11400	7990	9930	11100	4050	4820	2470	2600	2630
3	3940	3760	18100	9340	7400	10000	13100	5310	4460	2370	3500	2550
4	3900	4100	14100	11100	7440	10100	16600	4910	3570	1710	4920	2250
5	3420	4050	12100	11300	7480	12400	15800	4770	2830	1650	5310	1810
6	3440	5550	10300	12500	7830	14000	17700	4690	2810	2200	6410	2250
7	3320	4140	9290	12700	6840	18300	18800	4640	3930	2400	7270	2800
8	3630	2800	9140	11500	7610	22500	16000	4020	3110	2800	8680	3500
9	3590	4690	9420	11800	7270	24800	14000	3470	1980	2760	8630	3700
10	3640	5300	10300	12100	6830	25300	12900	4260	2760	2710	7000	3200
11	6830	4030	10300	13300	6810	18200	11100	3500	2450	2360	4290	2700
12	8300	2700	10500	13600	6790	13800	9970	2650	1850	2600	4340	3530
13	7790	2780	10200	13800	5540	14800	8710	2770	3230	2530	3260	3400
14	6670	4000	10200	15000	4550	17100	7960	3220	3350	2500	2870	3670
15	5390	3140	11800	15400	6480	15300	7070	2710	3460	2720	3400	3310
16	4150	4500	14500	16700	6140	17500	6960	3940	3170	2490	3140	2870
17	3100	4520	13000	18100	6520	17800	6800	3290	2760	2240	3060	2600
18	3150	4500	10700	16400	6640	16000	5940	3210	2760	1750	4240	2480
19	5010	3770	12300	15100	6410	15700	6520	4150	2250	2090	3920	3280
20	5730	4670	11700	12800	5170	12500	5690	4000	2100	2600	3700	2760
21	5500	5990	10100	10800	5270	11400	5390	3010	3400	3500	2460	2940
22	6900	5160	9210	10400	6260	11500	5250	2300	2810	3300	2090	3740
23	6300	6730	8190	8530	6170	15200	5320	1960	3190	2560	3500	3260
24	4370	6680	7730	8530	5830	18700	5390	2890	3150	2090	3200	3210
25	5880	5840	7610	9180	5790	20100	5460	3860	2860	1610	2890	2680
26	6610	3990	8360	8940	6900	20100	5460	3380	2760	1530	2660	3000
27	5650	4190	9300	8880	8040	20800	5880	3620	2900	1990	2420	2940
28	4520	4810	9930	8530	10700	22900	5800	3770	2810	2400	2900	3130
29	5720	8300	12400	9420	---	24000	5170	3140	2760	2300	2800	2760
30	5710	11600	13000	9450	---	20200	5020	3180	2400	2200	4100	2500
31	3480	---	12300	7300	---	13100	---	3800	---	2100	4090	---
TOTAL	151200	145940	351980	366200	191220	514530	278060	112820	91390	73090	125750	88570
MEAN	4877	4665	11350	11810	6829	16600	9269	3639	3046	2358	4056	2952
MAX	8300	11600	20200	18100	10700	25300	18800	5310	4820	3500	8680	3740
MIN	2690	2700	7610	7300	4550	9930	5020	1960	1850	1530	2090	1810
CFSM	.85	.85	1.98	2.06	1.19	2.89	1.62	.63	.53	.41	.71	.51
IN.	.98	.95	2.28	2.37	1.24	3.33	1.80	.73	.59	.47	.81	.57
CAL YR 1976 TOTAL	2489510		MEAN 6802		MAX 21000	MIN 2380	CFSM 1.19	IN 16.13				
WTR YR 1977 TOTAL	2490750		MEAN 6824		MAX 25300	MIN 1530	CFSM 1.19	IN 16.14				

APALACHICOLA RIVER BASIN

02353000 FLINT RIVER AT NEWTON, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV 09...	1045	5420	7.7	12.0	13.0	10.4
FEB 15...	1050	7180	7.4	14.0	10.0	10.6
MAY 09...	1300	3320	7.4	28.5	26.0	--
AUG 15...	1415	3340	7.4	29.5	27.0	5.1

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (FC BROTH) (MPN)
NOV 09...	129	40	7	.6	930
FEB 15...	84	10	7	.6	2100
MAY 09...	122	25	8	.6	430
AUG 15...	144	20	15	--	1500

DATE	HARD- NESS (CA, MG) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 09...	50	47	.58	.21	.10	4.0
FEB 15...	30	29	.39	.11	.07	3.0
MAY 09...	50	49	.59	.03	.05	1.0
AUG 15...	--	--	.63	.07	.03	14

02353500 ICHAWAYNOCHAWAY CREEK AT MILFORD, GA.

LOCATION.--Lat 31°22'58", long 84°32'32", Baker County, Hydrologic Unit 03130009, on downstream end of left bank pier of bridge on State Highway 216 at Milford, 2.2 mi (3.5 km) upstream from Alligator Creek, and 5.5 mi (8.8 km) upstream from Chickasawhatchee Creek.

DRAINAGE AREA.--620 mi² (1,610 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1905 to December 1907, October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 150.3 ft (45.81 m) above mean sea level (levels by Georgia Department of Transportation). Aug. 29, 1905 to Dec. 31, 1907, nonrecording gage at several sites within 450 ft (137 m) of present site at various datums. Oct. 1, 1939 to Nov. 10, 1941, nonrecording gage at site 100 ft (30 m) downstream at present datum.

REMARKS.--Records good except for those of no gage-height record, Jan. 27 to Feb. 21, which are fair. Moderate diurnal fluctuation at low flow.

AVERAGE DISCHARGE.--40 years, 803 ft³/s (22.7 m³/s), 17.59 in/yr (446.8 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft³/s (286 m³/s) Jan. 21, 1943, gage height, 13.9 ft (4.24 m); minimum, 116 ft³/s (3.29 m³/s) Sept. 16, 17, 1968.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1916 reached a stage of 17.2 ft (5.24 m), from information by local resident, discharge, 15,500 ft³/s (439 m³/s), from rating curve extended above 10,000 ft³/s (283 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft³/s (85.0 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)
Nov. 30	2400	*7890 223	11.79 3.594	Mar. 24	1900	3380 95.7	6.58 2.006
Mar. 8	0800	3910 111	7.33 2.234				

Minimum discharge, 194 ft³/s (5.49 m³/s) July 18, 19, 27.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1010	698	7130	1100	840	1340	1310	496	488	238	510	305
2	875	774	4660	1000	840	1350	1250	486	429	226	460	286
3	532	737	2900	1180	820	1200	1170	477	386	230	430	274
4	440	642	2100	1560	800	1120	1030	462	345	304	600	283
5	392	582	1630	1780	840	1430	1000	449	310	346	700	329
6	378	555	1360	1940	900	1960	1070	435	282	360	600	398
7	466	533	1290	1940	840	3160	1080	422	266	317	480	440
8	689	521	1380	1950	740	3840	1140	411	266	277	389	560
9	1100	512	1530	1900	740	3430	1030	418	302	300	336	659
10	1500	504	1620	1820	740	2750	881	425	302	389	310	698
11	1640	501	1550	1870	740	2230	742	465	374	487	302	552
12	1400	503	1450	2330	720	1890	685	428	274	405	293	438
13	856	508	1450	2380	720	1850	666	396	238	295	278	390
14	585	508	1500	2090	720	1890	647	378	250	257	266	394
15	491	517	1520	2030	700	2060	618	363	286	226	271	416
16	462	536	1500	2230	680	2300	584	355	321	206	282	434
17	531	569	1410	2400	660	2030	578	335	270	206	292	511
18	830	616	1310	1480	660	1540	566	315	258	198	286	636
19	1250	649	1150	1100	640	1260	553	302	274	226	281	770
20	1580	674	1010	1130	640	1140	544	298	303	372	383	659
21	1550	671	976	1160	660	1070	537	294	293	400	480	549
22	1950	671	983	1180	702	1310	531	310	297	376	420	475
23	2030	668	989	1130	722	2120	576	315	353	299	381	432
24	1530	612	944	1070	805	3160	634	325	378	266	320	399
25	1000	564	886	995	1000	3120	755	340	382	236	285	373
26	777	560	1020	947	1220	2310	809	340	362	222	325	357
27	781	812	1260	1000	1400	1630	652	355	296	218	389	436
28	833	1460	1390	920	1360	1300	567	365	299	316	420	606
29	765	2520	1450	900	---	1140	516	400	277	396	400	602
30	662	6330	1360	880	---	1070	505	412	247	480	398	573
31	643	---	1240	860	---	1310	---	442	---	560	351	---
TOTAL	29528	26507	51948	46252	22849	59310	23226	12014	9408	9634	11918	14234
MEAN	953	884	1676	1492	816	1913	774	388	314	311	384	474
MAX	2030	6330	7130	2400	1400	3840	1310	496	488	560	700	770
MIN	378	501	886	860	640	1070	505	294	238	198	266	274
CFSM	1.54	1.43	2.70	2.41	1.32	3.09	1.25	.63	.51	.50	.62	.77
IN.	1.77	1.69	3.12	2.78	1.37	3.56	1.39	.72	.56	.58	.72	.85

CAL YR 1976 TOTAL 311314 MEAN 851 MAX 7130 MIN 248 CFSM 1.37 IN 18.68
WTR YR 1977 TOTAL 316828 MEAN 868 MAX 7130 MIN 198 CFSM 1.40 IN 19.01

APALACHICOLA RIVER BASIN

02353500 ICHAWAYNOCHAWAY CREEK AT MILFORD, GA.--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)						
SEP 08...	1200	565	24.5	7.0						
DATE	COLOR (PLAT- INUM- COBALT UNITS)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)
SEP 08...	60	25	6	8.6	.8	2.3	.8	23	0	19
DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED SILICA (SIO2) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (NO3) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)
SEP 08...	.8	4.3	.0	8.5	55	39	83.9	.18	.80	.00
DATE	DIS- SOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SUS- PENDE KJEL. NITRO- GEN (N) (MG/L)
SEP 08...	.00	.19	.18	.01	.00	.00	.35	.26	.36	.10
DATE	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (NO3) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHATE (PO4) (MG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)
SEP 08...	.26	.55	2.4	.03	.01	.00	.00	.00	0	0
DATE	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	
SEP 08...	0	0	0	690	0	30	<.5	0	10	

02353500 ICHAWAYNOCHAWAY CREEK AT MILFORD, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDEO SEDI- MENT (MG/L)	SUS- PENDEO SEDI- MENT DIS- CHARGE (T/DAY)
OCT 26...	1250	762	6	12
JAN 12...	1630	2390	24	155
MAR 03...	1015	1220	36	119
APR 26...	1700	801	41	89
JUN 14...	1110	244	15	9.9
AUG 29...	1500	395	57	61

APALACHICOLA RIVER BASIN

02356015 FLINT RIVER BELOW BAINBRIDGE, GA.

LOCATION.--Lat 30°53'34", long 84°36'38", Decatur County, Hydrologic Unit 03130008, at Bainbridge, 0.8 mi (1.3 km) downstream from State Docks, and at mile 26.5 (42.6 km).

DRAINAGE AREA.--7,570 mi² (19,600 km²), approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT 07...	1015	7.5	22.0	22.0	7.0
NOV 09...	0745	7.6	-3.0	12.0	9.3
DEC 08...	1305	7.5	6.0	10.0	10.2
JAN 18...	1045	7.4	2.0	5.5	10.4
FEB 15...	0800	7.5	6.0	8.0	9.2
MAR 09...	1130	7.1	16.0	13.0	8.5
APR 07...	1130	7.1	14.0	20.0	7.9
MAY 10...	1000	7.8	24.5	24.0	--
JUN 16...	1100	7.9	32.0	29.0	6.6
JUL 14...	1100	7.8	32.0	30.0	5.2
AUG 15...	1700	7.6	26.0	28.0	--
SEP 12...	1300	7.4	31.5	28.0	6.5

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOP (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA+MG) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 07...	112	15	5	.3	91	44	42	.54	.07	.08	19
NOV 09...	103	40	8	.4	36	40	39	.43	<.02	.05	4.0
DEC 08...	88	70	18	1.2	750	36	34	.33	.07	.06	4.0
JAN 18...	65	55	28	1.2	750	23	21	.37	.11	.07	18
FEB 15...	114	10	11	1.1	73	47	46	.75	.16	.05	3.0
MAR 09...	61	80	28	1.2	5800	22	20	.21	.02	.07	6.0
APR 07...	83	60	18	.8	7500	30	30	.40	.05	.05	4.0
MAY 10...	130	25	7	.4	<30	58	55	.74	.09	.05	4.0
JUN 16...	164	25	5	.5	90	68	61	.83	.05	.09	1.5
JUL 14...	144	10	18	1.2	90	--	--	.71	<.02	.10	2.0
AUG 15...	135	20	18	.7	2300	--	--	.76	.14	.07	2.0
SEP 12...	121	30	14	.5	865	--	--	.56	.04	--	4.0

02357000 SPRING CREEK NEAR IRON CITY, GA.

LOCATION.--Lat 31°02'23", long 84°44'18", Decatur County, Hydrologic Unit 03130010, on right bank 25 ft (7.620 m) downstream from county bridge, 1.5 mi (2.4 km) downstream from Aycock Creek, 1.5 mi (2.4 km) upstream from Dry Creek, 5.0 mi (8.0 km) north of Brinson, and 5.5 mi (8.8 km) northeast of Iron City.

DRAINAGE AREA.--485 mi² (1,260 km²), approximately.

PERIOD OF RECORD.--October 1920 to June 1921, June 1937 to April 1971, water years 1972-76 (annual maximum), December 1976 to current year.

GAGE.--Water-stage recorder. Datum of gage is 85.7 ft (26.121 m) above mean sea level. Oct. 21, 1920 to June 30, 1921, nonrecording gage at site 125 ft (38.1 m) upstream at different datum, June 11, 1937 to Oct. 17, 1952, nonrecording gage at site 125 ft (38.1 m) upstream at present datum, Oct. 18, 1952 to April 1971, recording gage at same site and datum as present, May 1971 to Dec. 1976, nonrecording gage at same site and datum as present.

REMARKS.--Records good except those for periods of no gage-height record, May 21 to June 21, July 3-13, and July 21 to Aug. 30, which are poor.

AVERAGE DISCHARGE.--33 years (1937-70), 477 ft³/s (13.5 m³/s), 13.36 in/yr (339.3 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,700 ft³/s (501 m³/s) Apr. 12, 1975, gage height, 19.43 ft (5.922 m); maximum gage height, 19.9 ft (6.066 m) Apr. 2, 1948; minimum discharge, 9.1 ft³/s (0.26 m³/s) Oct. 30 to Nov. 2, 1954.

Maximum discharges for water years 1972-76 are given below. These figures were not previously published.

Water year	Date	Discharge (ft ³ /s) (m ³ /s)		Gage height (ft) (m)	
1972	Jan. 14, 1972	2420	68.5	12.62	3.847
1973	Feb. 3, 1973	11000	312	18.28	5.572
1974	Feb. 16, 1974	7470	212	17.36	5.291
1975	Apr. 12, 1975	17700	501	19.43	5.922
1976	May 27, 1976	4940	140	15.09	4.600

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,740 ft³/s (134 m³/s) Mar. 9, gage height, 14.96 ft (4.560 m); minimum discharge, 18 ft³/s (0.51 m³/s) July 25-28, 30, 31.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			---	1220	890	1010	842	318	70	56	24	89
2			---	1110	864	970	1040	306	76	51	26	81
3			---	1170	852	896	1130	295	88	48	32	70
4			---	1750	848	910	1060	287	86	46	38	65
5			---	2440	850	1000	1000	277	80	44	46	68
6			---	2650	858	1180	905	266	76	42	45	76
7			---	2560	856	1910	840	254	70	40	44	101
8			---	2270	846	3580	838	243	68	38	46	160
9			---	2050	822	4580	836	234	64	36	44	176
10			---	2000	782	3790	784	222	62	34	40	179
11			---	2010	740	2830	700	208	62	33	38	185
12			---	1850	702	2210	628	198	62	32	36	182
13			---	1700	674	2060	580	187	62	32	34	170
14			---	1830	650	2110	546	176	62	30	32	155
15			---	1920	633	2030	517	166	62	27	30	142
16			---	1960	616	1870	485	157	58	26	28	132
17			---	2060	602	1720	460	151	58	24	32	133
18			---	2110	590	1490	440	145	56	24	38	142
19			---	1910	575	1270	416	136	54	26	44	153
20			1150	1590	560	1160	398	129	54	28	50	161
21			1060	1320	543	1070	378	125	54	26	60	161
22			985	1200	531	1010	362	120	64	24	70	157
23			928	1120	521	955	352	110	65	22	80	147
24			910	1080	546	930	404	105	69	20	90	135
25			912	1060	638	985	444	100	71	18	92	125
26			975	1040	688	1230	420	96	73	18	90	114
27			1040	1050	780	1170	402	92	77	18	86	105
28			1120	1040	908	985	383	88	77	18	80	101
29			1240	1020	---	880	356	84	70	19	78	97
30			1370	975	---	816	333	80	60	18	80	94
31			1350	928	---	786	---	76	---	18	83	---
TOTAL	---	---	---	49993	19965	49393	18279	5431	2010	936	1636	3856
MEAN	---	---	---	1613	713	1593	609	175	67.0	30.2	52.8	129
MAX	---	---	---	2650	908	4580	1130	318	88	56	92	185
MIN	---	---	---	928	521	786	333	76	54	18	24	65
CFSM	---	---	---	3.33	1.47	3.29	1.26	.36	.14	.06	.11	.27
IN.	---	---	---	3.83	1.53	3.79	1.40	.42	.15	.07	.13	.30

APALACHICOLA RIVER BASIN

LAKES IN APALACHICOLA RIVER BASIN

02334400 LAKE SIDNEY LANIER.--Lat 34°04'30", long 84°04'20", Forsyth County, Hydrologic Unit 03130001, at forebay of dam on Chattahoochee River, 2.5 mi (4.0 km) upstream from bridge on State Highway 20, 4.5 mi (7.2 km) northwest of Buford, Ga., and at mile 348.3 (560.4 km). DRAINAGE AREA, 1,040 mi² (2,690 km²), approximately. PERIOD OF RECORD, January 1956 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

Lake is formed by a rolled-fill earth dam; storage began in January 1956; dam completed in June 1957. Usable capacity, 1,686,000 acre-ft (2,080 hm³) between elevations 1,035 and 1,085 ft (315.5 and 330.7 m). Dead storage, 868,000 acre-ft (1,070 hm³). Lake is used for flood control and power. Records furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 2,205,200 acre-ft (2,720 hm³) Apr. 14, 1965, elevation, 1,077.20 ft (328.331 m); minimum, after beginning operation, 1,480,800 acre-ft (1,830 hm³) Dec. 18, 1970, elevation, 1,057.53 ft (322.335 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 2,165,800 acre-ft (2,670 hm³) Apr. 6, elevation, 1,076.26 ft (328.044 m); minimum, 1,702,200 acre-ft (2,099 hm³) Sept. 30, elevation, 1,064.12 ft (324.344 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	1066.27	1778800	-	-
Oct. 31.....	1066.28	1779200	+400	+7
Nov. 30.....	1066.08	1772000	-7200	-121
Dec. 31.....	1067.97	1841100	+69100	+1124
CAL YR 1976	-	-	-75900	-104
Jan. 31.....	1069.51	1900700	+59600	+969
Feb. 28.....	1070.30	1928400	+27700	+499
Mar. 31.....	1074.88	2109100	+180700	+2939
Apr. 30.....	1071.81	1986800	-122300	-2055
May 31.....	1071.79	1986000	-800	-13
June 30.....	1070.57	1938700	-47300	-795
July 31.....	1068.41	1857400	-81300	-1322
Aug. 31.....	1065.21	1740700	-116700	-1898
Sept. 30.....	1064.12	1702200	-38500	-647
WTR YR 1977	-	-	-76600	-106

02339400 WEST POINT LAKE.--Lat 32°55'05", long 85°11'17", Troup County, Hydrologic Unit 03130002, at forebay of dam on Chattahoochee River, 2.3 mi (3.7 km) upstream from Oseligee Creek, 3.0 mi (4.8 km) north of West Point, Ga., 3.2 mi (5.1 km) upstream from bridge on U.S. Highway 29, and at mile 201.4 (324.1 km). DRAINAGE AREA, 3,440 mi² (8,910 km²), approximately. PERIOD OF RECORD, October 1974 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

Lake is formed by concrete gravity dam with earth dikes at either side. Spillway, crest elevation, 597 ft (181.97 m) is equipped with 6 taintor gates 50 ft (15.2 m) wide by 41 ft (12.5 m) high. Storage began Oct. 16, 1974 and lake reached maximum power pool, 635 ft (193.55 m), on June 10, 1975. Total capacity at elevation, 641 ft (195.38 m); maximum flood control pool, 774,800 acre-ft (955 hm³). Capacity at elevation, 635 ft (193.55 m), maximum power pool, 604,500 acre-ft (745 hm³). Dead storage below elevation 620 ft (188.98 m), minimum power pool, 298,400 acre-ft (368 hm³). Lake is used for flood control and power. Records furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 657,900 acre-ft (811 hm³) Mar. 19, 1976, elevation, 637.00 ft (194.158 m); minimum, since first filling, 361,400 acre-ft (446 hm³), Jan. 9, 1976, elevation, 623.78 ft (190.128 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 633,500 acre-ft (781 hm³) May 9, elevation, 636.10 ft (193.883 m); minimum, 378,500 acre-ft (467 hm³) Jan. 20, elevation, 624.73 ft (190.418 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	630.50	496000	-	-
Oct. 31.....	631.20	511900	+15900	+259
Nov. 30.....	631.01	507600	-4300	-72
Dec. 31.....	625.80	398600	-109000	-1773
CAL YR 1976	-	-	-28800	-40
Jan. 31.....	626.50	412100	+13500	+220
Feb. 28.....	627.50	432100	+20000	+360
Mar. 31.....	634.60	594200	+162100	+2636
Apr. 30.....	634.80	599400	+5200	+87
May 31.....	634.90	601900	+2500	+41
June 30.....	633.70	571500	-30400	-511
July 31.....	632.10	532800	-38700	-629
Aug. 31.....	631.10	509600	-28200	-377
Sept. 30.....	632.90	552000	+42400	+713
WTR YR 1977	-	-	+56000	+77

LAKES IN APALACHICOLA RIVER BASIN--Continued

02341000 LAKE HARDING.--Lat 32°39'46", long 85°05'27", Harris County, Hydrologic Unit 03130002, at forebay of dam on Chattahoochee River, 3.3 mi (5.3 km) upstream from Mulberry Creek, 15 mi (24 km) northwest of Columbus, Ga., and at mile 178.0 (286.4 km). DRAINAGE AREA, 4,240 mi² (11,000 km²), approximately. PERIOD OF RECORD, October 1929 to current year. Datum of gage is at mean sea level (levels by Georgia Power Co.).

Reservoir is formed by concrete gravity dam with earth fill abutments. Spillway, crest elevation, 500.0 ft (152.40 m) is equipped with 19 taintor gates 25 ft (7.62 m) wide by 21 ft (6.40 m) high and 2 trash gates 11 ft (3.35 m) wide by 9 ft (2.74 m) high. Storage began in 1926; water in reservoir first reached minimum pool elevation in 1926. Total capacity at elevation 521.0 ft (158.80 m) (top of gates) is 181,000 acre-ft (223 hm³), of which 136,000 acre-ft (168 hm³) is usable storage. Reservoir is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Co.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet) [†]	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	520.2	176000	-	-
Oct. 31.....	518.7	167000	-9000	-146
Nov. 30.....	521.1	182000	+15000	+252
Dec. 31.....	513.0	137000	-45000	-732
CAL YR 1976	-	-	-17000	-23
Jan. 31.....	517.5	160000	+23000	+374
Feb. 28.....	519.3	171000	+11000	+198
Mar. 31.....	520.6	179000	+8000	+130
Apr. 30.....	519.3	171000	-8000	+134
May 31.....	518.5	166000	-5000	-81
June 30.....	520.1	176000	+10000	+168
July 31.....	519.4	171000	-5000	-81
Aug. 31.....	520.0	175000	+4000	+65
Sept. 30.....	519.5	172000	-3000	-50
WTR YR 1977	-	-	-4000	-6

[†] Elevation at 0700 on day following that shown in first column.

02343240 WALTER F. GEORGE LAKE.--Lat 31°37'27", long 85°04'03", Clay County, Hydrologic Unit 03130003, at forebay of dam on Chattahoochee River, 1.6 mi (2.6 km) upstream from bridge on State Highway 37, 1 mi (1.6 km) north of Ft. Gaines, Ga., and at mile 75.0 (120.7 km). DRAINAGE AREA, 7,460 mi² (19,300 km²), approximately. PERIOD OF RECORD, May 1962 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

Reservoir is formed by concrete gravity dam and navigation lock with earth dikes on either side. The non-overflow section at the dam includes a powerhouse. Filling began in May 1962. Power operations commenced on Mar. 13, 1963. The spillway, crest elevation, 163.0 ft (49.68 m), is equipped with 14 taintor gates 42 ft (12.80 m) wide by 29 ft (8.84 m) high. Total capacity at elevation 190.0 ft (57.91 m), full summer pool, 934,400 acre-ft (1,150 hm³), of which 244,400 acre-ft (301 hm³) between elevations 190.0 and 184.0 ft (57.91 and 56.08 m), minimum pool, is controlled storage. Lake is used for navigation and power. Records furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 993,700 acre-ft (1,230 hm³) May 20, 1969, elevation, 191.28 ft (58.302 m); minimum, after first filling, 660,400 acre-ft (814 hm³) Apr. 23, 1965, elevation, 183.17 ft (55.830 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 936,200 acre-ft (1,154 hm³) Aug. 8, elevation, 190.04 ft (57.924 m); minimum, 719,500 acre-ft (887 hm³) July 12-15, elevation, 184.80 ft (56.327 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	187.50	826100	-	-
Oct. 31.....	189.70	920900	+94800	+1542
Nov. 30.....	189.14	896200	-24700	-415
Dec. 31.....	186.50	785400	-110800	-1802
CAL YR 1976	-	-	+22500	+31
Jan. 31.....	186.80	797400	+12000	+195
Feb. 28.....	188.00	847100	+41700	+895
Mar. 31.....	189.00	890000	+42900	+698
Apr. 30.....	189.70	920900	+30900	+519
May 31.....	187.60	830300	-90600	-1473
June 30.....	185.50	746100	-84200	-1415
July 31.....	187.30	817800	+71700	+1166
Aug. 31.....	189.60	916400	+98600	+1604
Sept. 30.....	188.40	864000	-52400	-881
WTR YR 1977	-	-	+37900	+52

LAKES IN APALACHICOLA RIVER BASIN--Continued

02357500 LAKE SEMINOLE.--Lat 30°42'33", long 84°51'45", Gadsden County, Fla., Hydrologic Unit 03130004, on right upstream lock wall 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, Fla. DRAINAGE AREA, 17,100 mi² (44,300 km²), approximately. PERIOD OF RECORD, October 1954 to current year. Prior to October 1959, published as Jim Woodruff Reservoir at Chattahoochee. REVISIONS, WSP 1554: 1955-57. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to July 22, 1957, nonrecording gage at same site at datum 53.96 ft (16.45 m) higher; gage readings have been reduced to elevations above mean sea level.

Lake 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 30.5 ft (9.30 m) high, and a side channel navigation lock 82 ft (25 m) wide. Gates closed on May 20, 1954; filling of pool accomplished in several stages between that date and Feb. 4, 1957, when the pool first reached normal operating level, 77.0 ft (23.47 m). Total capacity at elevation 77.0 ft (23.47 m), normal pool, is 367,300 acre-ft (453 hm³), of which 36,170 acre-ft (44.6 hm³) between elevations 77.0 and 76.0 ft (23.47 and 23.16 m) is used for pondage. Lake is used for navigation and power. Records furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 433,000 acre-ft (534 hm³) Apr. 7, 8, 1960, elevation, 78.66 ft (23.976 m); minimum after Feb. 4, 1957, 278,000 acre-ft (343 hm³) Nov. 4, 1968, elevation, 74.40 ft (22.677 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 399,000 acre-ft (492 hm³) Dec. 3, elevation, 77.82 ft (23.720 m); minimum, 318,800 acre-ft (393 hm³), elevation, 75.64 ft (23.055 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	77.48	385600	-	-
Oct. 31.....	76.91	364000	-21600	-351
Nov. 30.....	77.46	384900	+20900	+351
Dec. 31.....	77.55	388400	+3500	+57
CAL YR 1976	-	-	+5500	+8
Jan. 31.....	77.51	386800	-1600	-26
Feb. 28.....	77.39	382100	-4700	-85
Mar. 31.....	77.32	379500	-2600	-42
Apr. 30.....	77.33	379800	+300	+5
May 31.....	77.40	382500	+2700	+44
June 30.....	76.42	346000	-36500	-613
July 31.....	75.72	321500	-24500	-398
Aug. 31.....	77.31	379100	+57600	+937
Sept. 30.....	75.32	379500	+400	+7
WTR YR 1977	-	-	-6100	-8

02379500 CARTECAY RIVER NEAR ELLIJAY, GA.

LOCATION.--Lat 34°40'53", long 84°27'20", Gilmer County, Hydrologic Unit 03150102, on right bank adjacent to State Highway 52, 0.8 mi (1.3 km) downstream from Owltown Creek, 2 mi (3.2 km) southeast of Ellijay, and 2 mi (3.2 km) upstream from confluence with Ellijay River.

DRAINAGE AREA.--135 mi² (350 km²).

PERIOD OF RECORD.--March 1937 to September 1977 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 1,255.39 ft (382.64 m) above mean sea level, Corps of Engineers bench mark.

Prior to Dec. 19, 1938, nonrecording gage at same site and datum.

REMARKS.--Records good. Records of chemical analyses for the period October 1972 to July 1974 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--40 years, 289 ft³/s (8.18 m³/s), 29.07 in/yr (738.4 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,000 ft³/s (566 m³/s) Apr. 8, 1938, gage height, 13.0 ft (3.96 m), from floodmark, from rating curve extended above 6,200 ft³/s (176 m³/s), on basis of slope-area measurement of peak flow; minimum daily, 64 ft³/s (1.81 m³/s) Oct. 26, 1941.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (56.6 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)	
Mar. 13	0145	2770	78.4	5.13	1.564	Apr. 4	2315	7820	221	8.49	2.588
Mar. 30	1445	*9190	260	9.15	2.789						

Minimum discharge, 89 ft³/s (2.52 m³/s) Sept. 4, gage height, 1.43 ft (0.436 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	218	227	284	228	312	1700	440	269	278	130	96
2	152	190	201	258	220	280	1430	480	259	408	122	96
3	150	177	184	268	217	264	1600	550	251	223	120	93
4	147	171	174	274	217	299	2320	598	239	192	118	93
5	144	166	169	268	217	303	3430	495	235	180	115	97
6	147	162	182	267	210	501	1810	443	235	174	111	97
7	338	160	364	358	204	456	1450	408	263	167	109	254
8	300	157	277	309	201	355	1190	397	232	161	120	270
9	287	152	225	488	201	320	976	379	223	156	218	153
10	213	154	204	718	201	301	852	363	216	154	151	134
11	182	155	194	428	201	289	783	348	210	152	128	151
12	173	222	323	348	224	697	730	341	211	148	119	121
13	168	176	320	318	317	1830	693	333	204	147	115	126
14	163	168	259	428	255	984	667	328	204	142	117	206
15	159	174	369	458	232	671	632	320	204	140	120	207
16	158	167	374	365	216	514	608	312	201	153	138	171
17	166	161	301	324	207	438	578	305	203	147	147	164
18	167	157	262	316	207	407	560	300	233	142	150	161
19	164	153	239	304	204	381	600	293	250	134	130	160
20	175	153	634	292	200	444	570	374	207	129	119	156
21	175	153	568	284	196	444	516	353	200	126	113	136
22	165	148	354	266	193	723	516	409	189	135	112	127
23	163	144	304	259	192	494	724	432	264	134	108	121
24	167	142	274	266	471	429	873	334	215	128	114	118
25	254	142	295	262	322	396	593	340	191	132	129	128
26	268	147	453	252	268	371	529	386	196	160	114	220
27	197	186	331	256	403	358	496	380	200	138	112	185
28	176	310	298	262	387	361	471	330	197	127	111	155
29	169	534	273	248	---	1060	450	316	210	134	105	135
30	199	288	257	242	---	5340	450	297	196	150	100	145
31	281	---	329	234	---	2220	---	278	---	136	99	---
TOTAL	5927	5587	9218	9904	6811	22242	28797	11662	6607	5027	3814	4476
MEAN	191	186	297	319	243	717	960	376	220	162	123	149
MAX	338	534	634	718	471	5340	3430	598	269	408	218	270
MIN	144	142	169	234	192	264	450	278	189	126	99	93
CFSM	1.42	1.38	2.20	2.36	1.80	5.31	7.11	2.79	1.63	1.20	.91	1.10
IN.	1.63	1.54	2.54	2.73	1.88	6.13	7.94	3.21	1.82	1.39	1.05	1.23

CAL YR 1976	TOTAL	138830	MEAN	379	MAX	2910	MIN	138	CFSM	2.81	IN	38.26
WTR YR 1977	TOTAL	120072	MEAN	329	MAX	5340	MIN	93	CFSM	2.44	IN	33.09

02380500 COOSAWATTEE RIVER NEAR ELLIJAY, GA.

LOCATION.--Lat 34°40'18", long 84°30'31", Gilmer County, Hydrologic Unit 03150102, on right bank 0.5 mi (0.8 km) downstream from State Highway 5, 2 mi (3.2 km) southwest of Ellijay, and 2.2 mi (3.5 km) downstream from confluence of Cartecay and Ellijay Rivers.

DRAINAGE AREA.--238 mi² (616 km²).

PERIOD OF RECORD.--October 1938 to December 1949, occasional low-flow measurements 1959, 1961-62. June 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,216.04 ft (370.65 m) above mean sea level. Prior to June 10, 1940, nonrecording gage at site 0.5 mi (0.8 km) upstream at datum 8.04 ft (2.45 m) higher.

REMARKS.--Records good. Records of chemical analyses for the period March 1968 to March 1972 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--25 years (1938-49, 1963-77), 519 ft³/s (14.7 m³/s), 29.61 in/yr (752.1 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,000 ft³/s (481 m³/s) Oct. 4, 1964, gage height, 17.63 ft (5.374 m); minimum, 101 ft³/s (2.68 m³/s) several days in October 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1938, 20.7 ft (6.31 m) Mar. 19, 1951, from floodmark.

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)
Mar. 13	0030	3600 102	5.77 1.759	Apr. 4	2345	9740 276	11.89 3.624
Mar. 30	1615	*11000 312	12.71 3.874				

Minimum discharge, 159 ft³/s (4.50 m³/s) Sept. 4, gage height, 1.38 ft (0.421 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	250	322	372	532	338	597	2300	687	461	545	220	167
2	233	280	322	462	344	519	1860	708	443	722	199	176
3	224	260	295	474	328	474	2490	785	432	408	193	165
4	219	246	275	468	328	526	3000	827	412	354	193	165
5	214	237	260	462	328	519	5200	722	404	327	187	168
6	219	232	295	468	316	862	2720	666	408	316	179	173
7	584	228	617	687	312	813	2200	631	450	300	175	493
8	474	219	468	578	305	659	1830	600	400	285	198	452
9	420	219	372	820	300	590	1540	570	386	275	405	266
10	322	219	328	1200	300	538	1360	540	373	270	305	234
11	275	224	322	806	300	512	1250	530	364	255	226	245
12	250	310	590	652	354	1070	1160	520	366	251	203	197
13	242	255	578	571	526	2510	1060	510	360	248	192	248
14	237	242	456	729	402	1450	1020	506	373	241	194	415
15	228	265	610	771	366	1060	974	500	366	267	205	332
16	224	246	604	638	338	834	939	486	360	254	259	418
17	232	237	493	558	327	729	897	462	366	242	311	371
18	228	228	426	590	322	680	862	462	456	233	345	314
19	224	219	384	538	322	631	883	456	468	222	249	301
20	250	219	1010	512	312	743	841	638	384	213	219	297
21	246	219	981	480	300	715	778	558	384	205	203	247
22	228	210	652	432	300	1020	785	640	354	236	196	221
23	228	206	538	414	295	778	1100	725	462	225	191	207
24	242	202	468	432	792	701	1430	570	384	207	207	200
25	462	202	500	420	571	652	960	545	349	223	223	237
26	450	214	743	396	468	610	848	750	366	305	197	511
27	310	290	571	408	806	590	785	694	378	234	189	386
28	270	545	506	414	721	596	743	588	360	209	187	310
29	250	876	462	378	---	1310	722	552	384	230	176	256
30	310	500	432	396	---	6930	708	512	344	265	172	275
31	414	---	624	360	---	3090	---	483	---	240	172	---
TOTAL	8959	8371	15554	17046	11021	33308	43245	18423	11797	8807	6770	8447
MEAN	289	279	502	550	394	1074	1442	594	393	284	218	282
MAX	584	876	1010	1200	806	6930	5200	827	468	722	405	511
MIN	214	202	260	360	295	474	708	456	344	205	172	165
CFSM	1.21	1.17	2.11	2.31	1.66	4.51	6.06	2.50	1.65	1.19	.92	1.19
IN.	1.40	1.31	2.43	2.66	1.72	5.21	6.76	2.88	1.84	1.38	1.06	1.32
CAL YR 1976	TOTAL	231999	MEAN 634	MAX 4020	MIN 202	CFSM 2.66	IN 36.26					
WTR YR 1977	TOTAL	191748	MEAN 525	MAX 6930	MIN 165	CFSM 2.21	IN 29.97					

02381600 FAUSETT CREEK NEAR TALKING ROCK, GA.

LOCATION.--Lat 34°34'13", long 84°28'08", Gilmer County, Hydrologic Unit 03150102, on right bank 25 ft (7.6 m) upstream from culvert on county road, 3.6 mi (5.8 km) upstream from mouth, and 4.5 mi (7.2 km) northeast of Talking Rock.

DRAINAGE AREA.--9.99 mi² (25.9 km²).

PERIOD OF RECORD.--Annual maximum, water years 1966-74, October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,320 ft (402 m), from topographic map.

REMARKS.--Records good except those for period of no gage-height, Aug. 29 to Sept. 27, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,160 ft³/s (89.5 m³/s) May 29, 1973, gage height, 16.96 ft (5.169 m), from floodmarks; minimum daily, 4.5 ft³/s (0.127 m³/s) Sept. 4, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges 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 /s)	Gage height (ft) (m)
Mar. 12	2045	374 10.6	4.08 1.244	Apr. 4	2030	1730 49.0	10.09 3.075
Mar. 29	2300	*1740 49.3	10.14 3.091				

Minimum daily discharge, 4.5 ft³/s (0.127 m³/s) Sept. 4.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	9.9	9.7	15	13	20	53	22	16	22	7.0	5.0
2	7.5	9.0	8.6	14	12	16	44	26	14	20	7.0	4.8
3	7.1	8.7	7.9	16	12	15	80	27	14	13	6.6	4.6
4	6.7	8.3	7.3	15	12	19	365	26	13	12	5.8	4.5
5	6.4	8.2	7.1	15	12	16	193	24	13	12	18	6.2
6	7.0	8.1	12	17	11	37	79	22	17	11	10	7.0
7	22	8.1	21	22	11	27	60	21	16	11	8.2	13
8	12	7.7	13	18	12	21	51	20	14	10	7.0	9.0
9	12	7.8	10	47	11	18	46	20	13	10	7.0	8.0
10	9.1	7.8	9.1	40	11	17	42	19	13	10	7.8	7.0
11	8.2	9.4	8.7	25	11	16	40	18	12	9.9	7.0	14
12	7.3	13	26	21	14	102	36	18	12	9.9	7.8	9.0
13	6.9	9.3	20	18	17	78	33	18	12	9.9	7.8	8.0
14	6.8	9.6	14	27	13	34	32	18	12	9.1	7.6	21
15	6.4	10	31	24	13	27	31	17	12	9.1	7.5	12
16	6.4	9.0	20	20	12	23	29	16	12	9.5	7.4	20
17	6.8	9.0	15	19	12	21	28	16	12	9.1	7.8	18
18	6.5	8.4	13	18	12	18	27	14	13	8.6	7.8	16
19	6.5	8.4	12	17	12	17	33	14	13	8.2	7.0	16
20	7.9	8.4	54	16	12	20	29	16	12	8.2	6.6	17
21	7.3	8.4	31	15	11	30	26	16	11	7.8	6.6	15
22	7.1	7.7	21	14	11	33	28	19	11	8.2	6.2	12
23	7.3	7.7	17	13	11	24	37	17	16	8.2	6.2	10
24	8.7	7.7	15	15	42	21	39	16	13	7.8	8.2	8.6
25	16	7.7	22	14	21	19	30	20	12	9.1	7.0	10
26	11	8.4	27	13	18	17	27	23	12	9.1	6.2	13
27	8.8	10	20	15	33	16	25	20	11	7.8	6.2	8.2
28	8.1	27	17	15	25	18	24	18	11	7.4	5.8	7.8
29	7.8	25	15	14	---	302	23	16	11	8.6	5.5	7.4
30	13	12	15	14	---	320	23	16	19	8.6	5.4	8.2
31	12	---	18	13	---	84	---	14	---	7.8	5.2	---
TOTAL	274.6	299.7	537.4	579	417	1446	1613	587	392	312.9	227.2	320.3
MEAN	8.86	9.99	17.3	18.7	14.9	46.6	53.8	18.9	13.1	10.1	7.33	10.7
MAX	22	27	54	47	42	320	365	27	19	22	18	21
MIN	6.4	7.7	7.1	13	11	15	23	14	11	7.4	5.2	4.5
CFSM	.89	1.00	1.73	1.87	1.49	4.67	5.39	1.89	1.31	1.01	.73	1.07
IN.	1.02	1.12	2.00	2.16	1.55	5.38	6.01	2.19	1.46	1.17	.85	1.19

CAL YR 1976 TOTAL 8106.0 MEAN 22.1 MAX 350 MIN 6.2 CFSM 2.21 IN 30.18
WTR YR 1977 TOTAL 7006.1 MEAN 19.2 MAX 365 MIN 4.5 CFSM 1.92 IN 26.09

02382200 TALKING ROCK CREEK NEAR HINTON, GA.

LOCATION.--Lat 34°31'22", long 84°36'40", Pickens County, Hydrologic Unit 03150102, on left bank 300 ft (91 m) downstream from Scarecorn Creek, and 3.3 mi (5.3 km) northwest of Hinton.

DRAINAGE AREA.--120 mi² (311 km²).

PERIOD OF RECORD.--November 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 890 ft (271 m), from topographic map.

REMARKS.--Records fair except those for periods of doubtful or no gage-height record, Nov. 14 to Dec. 7, May 16 to July 7, and Aug. 6-16, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,300 ft³/s (292 m³/s) Apr. 4, 1977, gage height, 12.35 ft (3.764 m); minimum, 35 ft³/s (0.99 m³/s) Oct. 10, 11, 1974, gage height, 1.01 ft (0.308 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 28, 1973, reached a stage of 15.45 ft (4.709 m), from floodmarks; discharge, 18,400 ft³/s (521 m³/s) from rating curve extended above 3,100 ft³/s (87.8 m³/s) on basis of slope-area measurements at gage heights 8.66 and 15.45 ft (2.640 and 4.709 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft³/s (70.8 m³/s), revised, 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)
Mar. 12	2315	3080 87.2	6.60 2.012	Apr. 4	2130	*10300 292	12.35 3.764
Mar. 29	2400	8620 244	11.41 3.478				

Minimum discharge, 37 ft³/s (1.05 m³/s) Sept. 4, gage height, 0.98 ft (0.299 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	81	110	127	106	214	785	212	145	150	50	42
2	57	71	92	139	104	184	606	235	140	250	44	42
3	54	67	82	130	102	163	755	250	135	160	43	40
4	50	67	77	136	101	190	1570	253	130	120	41	38
5	49	63	72	136	99	178	3670	235	127	102	40	44
6	48	63	100	136	93	388	1000	220	125	90	39	45
7	202	63	190	239	91	346	750	238	160	80	38	129
8	113	61	151	187	95	256	543	229	135	84	38	108
9	99	59	111	487	97	217	427	202	125	80	90	75
10	77	61	101	575	91	196	379	187	120	84	75	67
11	67	63	95	292	91	181	346	181	118	76	60	144
12	65	99	223	217	105	816	319	178	116	82	50	69
13	65	73	238	184	169	1320	304	172	115	81	47	64
14	61	66	157	250	121	499	289	169	114	72	45	184
15	59	76	292	268	111	331	277	169	113	71	50	123
16	59	68	235	217	103	271	265	163	113	74	65	185
17	59	64	163	193	99	238	250	157	115	71	81	171
18	57	62	130	183	99	223	244	151	130	66	88	129
19	55	60	113	175	97	205	265	148	145	59	68	133
20	63	58	416	170	95	235	253	200	130	55	58	135
21	63	58	349	165	91	334	226	170	120	52	54	98
22	57	57	205	160	91	563	241	205	115	49	53	84
23	57	56	163	155	91	343	334	240	150	53	52	77
24	63	55	133	148	459	277	531	162	135	47	75	72
25	121	55	154	124	268	247	313	196	110	50	75	78
26	109	56	286	113	196	226	268	247	115	83	56	143
27	77	80	208	112	292	214	244	205	125	58	52	115
28	69	150	169	110	277	214	229	190	115	50	50	103
29	67	260	142	109	---	1830	214	175	125	56	47	95
30	83	180	124	108	---	4030	214	165	110	70	45	105
31	109	---	154	107	---	1190	---	155	---	56	44	---
TOTAL	2297	2352	5235	5852	3834	16119	16111	6059	3771	2531	1713	2937
MEAN	74.1	78.4	169	189	137	520	537	195	126	81.6	55.3	97.9
MAX	202	260	416	575	459	4030	3670	253	160	250	90	185
MIN	48	55	72	107	91	163	214	148	110	47	38	38
CFSM	.62	.65	1.41	1.58	1.14	4.33	4.48	1.63	1.05	.68	.46	.82
IN.	.71	.73	1.62	1.81	1.19	5.00	4.99	1.88	1.17	.78	.53	.91
CAL YR 1976	TOTAL	81812	MEAN 224	MAX 2600	MIN 48	CFSM 1.87	IN 25.36					
WTR YR 1977	TOTAL	68811	MEAN 189	MAX 4030	MIN 38	CFSM 1.58	IN 21.33					

02382500 COOSAWATTEE RIVER AT CARTERS, GA.

LOCATION.--Lat 34°36'15", long 84°41'29", Murray County, Hydrologic Unit 03150102, on downstream side of left bank pier of bridge on U.S. Highway 411 at Carters, 200 ft (61 m) upstream from Louisville & Nashville Railroad bridge, 0.4 mi (0.6 km) downstream from Carters re-regulation dam, and 0.6 mi (1.0 km) downstream from Talking Rock Creek.

DRAINAGE AREA.--531 mi² (1,380 km²).

PERIOD OF RECORD.--August 1896 to December 1908, October 1918 to September 1923, October 1961 to August 1972, October 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 650.67 ft (198.32 m) above mean sea level (levels by Corps of Engineers). Prior to September 1923, nonrecording gage at site 0.4 mi (0.6 km) upstream at datum 2.00 ft (0.61 m) higher.

REMARKS.--Flow regulated by Carters Lake and Carters re-regulation dam since November 1974. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400.) Records of chemical analyses for the water years 1968-74 are published in reports of the Geological Survey.

COOPERATION.--Gage-height record, 8 discharge measurements, and computation of daily discharge furnished by Corps of Engineers; records reviewed by Geological Survey.

AVERAGE DISCHARGE.--30 years (1896-1908, 1918-23, 1961-71, 1974-77), 1,246 ft³/s (35.3 m³/s), 31.87 in/yr (809.5 mm/yr), adjusted for storage since 1975.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 28,500 ft³/s (807 m³/s) Nov. 19, 1906, gage height, 30.6 ft (9.33 m), present datum; minimum daily, 122 ft³/s (3.46 m³/s), regulated; minimum discharge observed prior to regulation, 184 ft³/s (5.21 m³/s) several days during September to November 1904.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 29 or 30, 1951, reached a stage of about 36 ft (11.0 m), from floodmarks; discharge, 57,000 ft³/s (1,610 m³/s), from rating curve extended above 24,000 ft³/s (680 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,370 ft³/s (180 m³/s) April 18, gage height, 14.80 ft (4.51 m); minimum daily, 282 ft³/s (7.99 m³/s) Sept. 2.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	387	580	1810	1110	778	2670	2880	1740	604	371	644	307
2	382	1030	449	1110	1040	2840	3310	1040	1440	467	692	282
3	318	499	371	1440	976	2200	3560	2350	3080	542	444	286
4	342	362	362	744	1050	1960	2750	2640	2500	960	328	394
5	752	358	354	638	477	904	3810	2840	1160	1960	345	537
6	1160	342	311	705	408	562	3740	2800	583	1270	389	604
7	850	292	328	1250	552	932	3800	2680	650	376	385	621
8	1010	292	389	1210	2240	1840	3870	1700	610	426	371	1190
9	641	1340	644	883	2950	1300	4310	1230	572	454	778	1150
10	628	1420	577	2360	876	1730	4260	1980	577	408	1340	487
11	641	336	380	3020	482	1080	4590	2240	577	890	960	463
12	527	417	435	2350	398	976	4800	2300	562	1010	724	302
13	427	408	487	3120	389	1080	5000	1820	527	656	731	385
14	284	398	532	1520	472	1100	4630	1530	604	537	662	1370
15	350	394	547	1490	512	1180	4650	1160	599	527	604	1240
16	541	385	1530	522	668	1200	4790	1470	615	517	1120	869
17	575	399	440	2210	1080	2020	4800	2200	615	467	806	1620
18	527	362	463	2310	680	3920	4290	2620	599	820	650	1960
19	1290	358	582	2270	492	3860	4290	2980	572	806	517	1120
20	512	362	1230	1810	435	1130	4290	2410	615	426	354	319
21	698	349	1980	1010	454	1740	4290	1950	862	408	336	332
22	1630	345	1980	440	662	2810	4220	744	904	315	599	332
23	1490	376	2850	421	827	3270	3730	604	1670	307	686	371
24	1290	332	3490	454	1180	4150	3590	626	1240	311	594	477
25	628	298	1350	562	1310	4270	3740	650	621	467	444	435
26	648	298	492	680	1010	1900	3790	567	583	1160	319	705
27	551	362	848	497	904	778	3660	362	1460	976	315	1800
28	605	319	1130	522	1120	692	3680	371	1420	572	307	358
29	532	862	1320	820	---	2160	3710	367	1430	507	298	712
30	350	1930	1790	487	---	2820	3290	376	890	507	298	1290
31	382	---	1540	472	---	3270	---	668	---	512	311	---
TOTAL	20948	15805	30991	38437	24422	62364	120120	49015	28741	19932	17351	22318
MEAN	676	527	1000	1240	872	2012	4004	1581	958	643	560	744
MAX	1630	1930	3490	3120	2950	4270	5000	2980	3080	1960	1340	1960
MIN	284	292	311	421	389	562	2750	362	527	307	298	282
MEAN+	637	625	1170	1258	1000	2723	3535	1352	881	686	526	768
CFSM+	1.20	1.18	2.20	2.37	1.88	5.13	6.66	2.55	1.66	1.29	0.99	1.45
IN+	1.38	1.32	2.54	2.73	1.96	5.91	7.43	2.94	1.85	1.49	1.14	1.62
CAL YR 1976 TOTAL	532716			1456	MAX 4940	MIN 210	MEAN+ 1454	CFSM+ 2.74	IN+ 37.27			
WTR YR 1977 TOTAL	450444			1234	MAX 5000	MIN 282	MEAN+ 1263	CFSM+ 2.38	IN+ 32.29			

+ Adjusted for change in contents in Carters Lake and Carters re-regulation dam.

MOBILE RIVER BASIN

02382720 COOSAWATTEE RIVER NEAR NICKELSVILLE, GA.

LOCATION.--Lat 34°36'03", long 84°46'42", Gordon County, Hydrologic Unit 03150102, near left bank on downstream side of bridge on county road, 2.1 mi (3.4 km) upstream from Noblet Creek, and 6.8 mi (10.9 km) east of Nickelsville.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1974 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 25.5°C July 18, 1977; minimum, 0.5°C Jan. 17, 1977.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 25.5°C July 18; minimum, 0.5°C Jan. 17.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.5	18.0	14.0	10.5	9.5	8.5	5.0	3.5	3.5	1.5	8.5	5.0
2	19.5	17.5	14.0	13.0	8.5	6.0	3.5	3.0	4.0	2.5	7.0	5.5
3	20.0	17.5	13.5	12.0	6.5	5.0	5.5	2.5	3.5	3.0	7.0	6.0
4	20.5	18.0	12.5	10.5	6.5	5.5	5.5	3.5	4.5	2.5	8.0	6.5
5	19.5	18.5	12.0	9.5	6.0	4.5	6.0	3.5	5.0	3.0	8.0	7.0
6	19.0	18.5	11.5	10.0	6.0	5.0	5.5	4.5	3.0	2.0	8.5	7.5
7	19.0	18.5	11.0	9.5	7.0	5.5	6.0	5.0	2.5	1.5	9.5	8.0
8	18.5	18.0	9.5	8.0	7.0	6.0	5.5	4.5	4.5	2.0	9.0	7.0
9	18.0	16.5	12.5	7.0	7.5	5.5	4.5	4.0	4.5	4.0	9.0	7.0
10	17.0	16.0	12.5	10.5	8.0	7.0	5.5	3.0	4.5	3.0	9.0	7.0
11	17.0	16.0	10.5	9.0	7.5	6.5	5.0	4.0	5.0	3.5	10.5	8.0
12	17.0	16.0	11.0	9.0	7.5	6.5	5.0	3.5	4.5	4.0	13.0	10.0
13	17.5	15.5	10.5	9.0	7.5	6.5	5.0	3.0	6.0	4.5	13.0	10.5
14	17.0	15.5	9.5	9.0	7.5	6.5	5.0	4.0	7.0	4.5	13.5	11.5
15	17.5	14.5	9.5	8.5	8.0	7.0	5.0	4.0	6.5	5.5	12.5	10.0
16	17.5	15.5	10.5	8.0	8.5	8.0	4.0	2.0	5.0	4.0	10.0	9.0
17	16.5	15.5	10.0	9.0	8.5	7.0	5.0	0.5	5.0	3.5	11.0	9.0
18	16.0	15.0	10.5	8.0	9.0	7.0	5.0	2.0	6.0	4.0	11.0	10.0
19	16.5	15.5	10.5	9.0	8.5	7.5	4.5	1.5	6.0	4.5	10.5	9.0
20	16.5	14.5	11.0	9.5	8.5	7.0	4.5	2.5	6.0	5.0	11.5	10.0
21	15.5	14.0	10.5	9.0	7.5	6.0	3.0	2.0	6.0	4.0	12.0	9.0
22	16.5	15.5	9.5	8.0	7.0	6.0	2.5	2.0	6.5	4.5	10.0	9.0
23	16.0	15.5	10.0	9.0	8.0	6.0	2.5	1.0	7.0	5.5	9.0	8.0
24	15.5	15.0	9.5	8.0	7.5	7.0	2.0	2.0	8.0	7.0	9.5	8.0
25	15.0	11.5	9.0	7.0	7.5	5.0	4.0	2.0	9.0	7.0	10.0	8.5
26	15.0	13.5	8.0	7.5	5.0	3.5	4.0	2.5	9.5	7.5	11.5	9.0
27	14.0	13.0	11.0	8.0	6.5	3.0	5.0	3.0	10.0	9.0	13.5	10.5
28	14.0	12.5	11.0	10.0	6.5	6.0	5.0	3.0	9.5	8.5	13.5	13.0
29	13.5	12.0	10.0	9.0	7.0	5.5	3.0	1.5	---	---	13.0	11.0
30	13.0	12.5	10.0	9.5	6.0	5.5	2.5	1.0	---	---	15.0	12.5
31	13.0	11.0	---	---	7.0	4.0	2.5	1.5	---	---	14.0	13.5
MONTH	20.5	11.0	14.0	7.0	9.5	3.0	6.0	0.5	10.0	1.5	15.0	5.0

02382720 COOSAWATTEE RIVER NEAR NICKELSVILLE, Ga.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	14.5	14.0	16.5	15.5	19.5	17.0	23.5	20.5	24.5	21.5		
2	14.5	14.0	19.0	15.5	20.0	17.0	23.5	20.0	24.0	22.0		
3	15.0	14.5	16.0	14.5	20.0	17.5	23.5	19.5	23.5	21.5		
4	14.5	11.0	16.0	15.0	20.0	17.5	23.5	20.5	24.5	21.5		
5	13.5	12.5	16.0	14.0	20.5	18.0	25.5	21.0	25.0	22.0		
6	13.5	12.5	16.5	14.5	22.0	18.5	23.5	21.0	25.0	22.0		
7	12.5	11.0	16.5	14.5	19.5	17.0	24.5	20.5	24.0	22.0		
8	12.0	11.5	18.0	17.0	20.5	16.5	24.0	20.5	23.5	22.0		
9	12.0	10.5	20.0	15.0	21.5	17.5	23.0	20.5	24.0	21.5		
10	---	---	16.0	14.0	20.0	16.5	24.0	20.5	23.5	22.0		
11	---	---	16.0	13.5	20.5	16.5	25.0	21.0	23.5	22.0		
12	---	---	17.0	14.5	21.0	17.5	24.5	21.5	23.5	22.5		
13	---	---	17.5	15.0	23.0	18.0	23.5	21.0	23.5	22.0		
14	13.0	12.0	17.0	15.0	21.0	19.0	23.5	20.5	24.0	22.0		
15	13.0	12.0	18.0	15.5	20.5	18.5	23.5	20.5	24.5	23.0		
16	13.0	12.0	19.5	16.0	20.5	18.0	24.0	21.0	23.5	22.0		
17	13.5	12.0	17.5	15.5	20.0	18.0	24.0	21.5	---	---		
18	15.0	13.0	17.5	15.5	20.5	17.5	25.5	21.5	24.0	22.5		
19	14.5	12.5	17.5	16.0	22.0	18.0	25.0	21.5	25.0	22.5		
20	14.5	12.5	18.0	16.0	22.0	19.0	25.0	21.0	23.5	22.0		
21	14.5	12.5	19.5	17.0	22.0	19.0	25.0	21.5	24.5	22.5		
22	14.5	13.0	19.5	17.5	21.5	19.0	23.5	22.0	---	---		
23	14.5	13.0	20.5	18.0	21.5	19.0	24.0	21.5	---	---		
24	15.5	14.0	19.5	16.5	22.5	19.5	23.5	21.5	---	---		
25	16.5	12.5	18.0	16.0	22.5	19.5	24.0	22.0	---	---		
26	14.5	12.5	18.5	16.0	21.5	19.5	24.5	21.5	---	---		
27	14.5	12.5	18.5	17.0	23.5	19.5	24.0	21.0	---	---		
28	14.5	12.5	19.0	16.0	23.0	20.0	23.0	21.5	---	---		
29	15.5	13.0	20.5	17.0	22.5	20.5	22.5	22.0	---	---		
30	16.0	14.0	22.0	18.0	24.0	21.0	23.5	21.5	---	---		
31	---	---	21.5	17.0	---	---	24.5	21.0	---	---		
MONTH	16.5	10.5	22.0	13.5	24.0	16.5	25.5	19.5	25.0	21.5		

MOBILE RIVER BASIN

02383500 COOSAWATTEE RIVER NEAR PINE CHAPEL, GA.

LOCATION.--Lat 34°33'51", long 84°49'59", Gordon County, Hydrologic Unit 03150102, on right bank at downstream side of highway bridge, 1.4 mi (2.3 km) downstream from Sallacoa Creek, 8.7 mi (14.0 km) upstream from confluence with Conasauga River, and 2.4 mi (3.9 km) east of Pine Chapel.

DRAINAGE AREA.--856 mi² (2,220 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to current year. Prior to October 1976, published as Coosawattee River at Pine Chapel, Ga.

Monthly discharge only for some periods, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 616.16 ft (187.81 m) above mean sea level (levels by Corps of Engineers). Since October 1, 1976, auxiliary water-stage recorder at highway bridge 2.2 mi (3.5 km) downstream. Prior to Feb. 23, 1940, nonrecording gage at current auxiliary gage site and same datum. Feb. 23, 1940 to April 8, 1975, water-stage recorder at current auxiliary gage site and same datum. Feb. 23, 1940 to April 8, 1975 auxiliary water-stage recorder at current gage site. April 9, 1975 to Sept. 30, 1976, water-stage recorder on Oostanaula River at Resaca used as auxiliary gage, due to bridge construction.

REMARKS.--Records good. Flow regulated by Carters Lake and re-regulation dam. (See "Lakes and Reservoirs in Mobile River basin," stations 02381400 and 02382400.)

AVERAGE DISCHARGE.--39 years, 1,486 ft³/s (42.1 m³/s), 23.57 in/yr (598.7 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,200 ft³/s (1,140 m³/s) Mar. 30, 1951, gage height, 34.2 ft (10.42 m) at current base gage, 30.8 ft (9.39 m) at current auxiliary gage; minimum daily, 188 ft³/s (5.32 m³/s) Sept. 11, 1976, minimum unregulated daily discharge, 220 ft³/s (6.23 m³/s) Oct. 26, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 8, 1938, reached a stage of 30.0 ft (9.14 m) from gage reading at current auxiliary gage, discharge 34,000 ft³/s (963 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,200 ft³/s (487 m³/s) Mar. 30, maximum gage height, 28.32 ft (8.632 m) April 5 (backwater from Conasauga River); minimum daily discharge, 265 ft³/s (7.50 m³/s) Sept. 13.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	450	584	2010	1260	821	2490	6470	2640	1180	459	577	311
2	457	978	984	1190	1030	3330	4280	1040	1210	544	678	300
3	376	780	465	1310	1120	2640	5360	2270	2410	598	536	289
4	377	469	452	1480	1120	2410	5290	2900	3160	726	351	295
5	640	433	453	1020	851	1740	13700	2990	1370	1410	341	453
6	867	448	383	941	564	2020	9660	3060	752	1870	396	565
7	1010	381	798	1750	591	2400	6000	2980	700	492	390	603
8	1160	374	603	1840	1490	2090	4800	2390	666	402	380	721
9	796	697	663	1500	3170	1850	4660	1160	620	485	596	1430
10	715	1820	695	3820	1670	1990	4680	2080	619	451	1250	662
11	733	546	546	5220	629	1610	4890	2250	614	567	1030	502
12	713	453	996	2440	562	2150	5210	2620	608	1070	713	417
13	506	468	1440	3590	589	7630	5260	1960	558	775	724	265
14	381	453	801	2490	638	4750	5090	1860	609	549	715	878
15	301	448	1270	2280	665	2220	4860	1180	628	537	615	1520
16	566	452	2140	1440	675	1980	4960	1210	620	533	753	1530
17	675	482	605	1560	1050	1880	5020	2110	624	488	1290	1410
18	589	429	669	3110	992	3690	4930	2650	619	578	544	1990
19	1010	414	697	2180	654	4530	4530	2890	610	941	687	1740
20	943	419	1380	2500	574	2440	4580	2820	635	459	379	512
21	535	412	3000	1500	552	1860	4480	2090	764	466	356	418
22	1490	398	2250	720	677	4760	4530	1250	900	348	468	389
23	1550	429	2570	681	832	4760	4540	743	1220	345	670	359
24	1280	432	3730	679	2090	4730	4540	740	1700	327	654	503
25	862	345	2590	787	2450	4770	4330	727	636	410	502	460
26	798	382	1470	909	1380	3360	4260	773	615	818	366	617
27	630	422	1150	905	1830	1240	3990	665	934	1180	329	1400
28	706	463	1350	755	2090	1160	3940	539	1690	629	320	934
29	719	943	1450	899	---	2830	3960	506	1100	518	307	557
30	431	1950	1720	879	---	11300	3770	486	1340	513	306	1070
31	487	---	2100	690	---	12200	---	511	---	526	307	---
TOTAL	22753	17704	41430	52325	31356	108810	156570	54090	29711	20014	17530	23100
MEAN	734	590	1336	1688	1120	3510	5219	1745	990	646	565	770
MAX	1550	1950	3730	5220	3170	12200	13700	3060	3160	1870	1290	1990
MIN	301	345	383	679	552	1160	3770	486	558	327	306	265

CAL YR 1976 TOTAL 676244 MEAN 1848 MAX 13300 MIN 188 MEAN† 1846 CFSM† 2.16 IN† 29.35
WTR YR 1977 TOTAL 575393 MEAN 1576 MAX 13700 MIN 265 MEAN† 1605 CFSM† 1.88 IN† 25.45

† Adjusted for change in contents in Carters Lake and Carters re-regulation dam.

MOBILE RIVER BASIN

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02383500 COOSAWATTEE RIVER NEAR PINE CHAPEL, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1974 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 25.0°C Sept. 5, 6, 1977; minimum, 0.0°C Jan. 22, 23, 30, Feb. 1, 1977.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 25.0°C Sept. 5, 6; minimum, 0.0°C Jan. 22, 23, 30, Feb. 1.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	20.5	20.5	10.5	9.5	8.0	6.5	5.5	2.5	1.5	0.0	9.0	6.5
2	20.5	17.5	13.0	11.0	8.0	6.0	2.5	1.5	2.0	1.0	7.0	6.0
3	19.0	17.5	13.0	11.5	6.0	4.0	3.5	1.5	2.5	2.0	7.5	7.0
4	19.5	18.5	12.0	10.5	5.0	4.0	4.0	3.0	2.5	2.0	9.0	7.0
5	19.0	19.0	10.5	9.5	---	---	4.5	3.0	4.0	2.5	9.0	8.0
6	19.0	19.0	9.5	8.5	---	---	4.5	4.0	4.0	1.5	9.0	8.5
7	---	---	8.5	8.5	---	---	4.5	4.0	2.5	1.0	9.5	8.5
8	---	---	9.0	7.0	---	---	---	---	2.0	1.0	9.5	8.0
9	---	---	11.5	6.5	5.5	3.5	---	---	3.5	1.0	9.0	7.5
10	---	---	11.0	10.5	6.0	5.0	---	---	4.0	3.0	9.5	8.0
11	---	---	10.0	8.5	6.0	6.0	---	---	4.5	3.0	11.0	9.0
12	---	---	9.0	8.5	6.5	6.0	---	---	4.5	4.0	13.5	11.0
13	---	---	9.0	8.0	7.5	6.5	---	---	6.0	4.5	13.5	12.5
14	---	---	9.0	8.0	---	---	---	---	6.5	4.5	13.5	12.0
15	---	---	8.0	7.5	---	---	---	---	6.5	5.5	13.0	12.0
16	---	---	---	---	---	---	---	---	6.0	4.0	12.0	11.0
17	---	---	---	---	---	---	---	---	4.5	3.5	11.0	10.0
18	---	---	---	---	---	---	---	---	5.5	4.0	11.0	10.0
19	16.0	14.5	---	---	---	---	---	---	6.5	5.0	11.0	9.5
20	16.0	16.0	---	---	---	---	1.0	1.0	6.5	5.5	12.5	11.0
21	16.0	13.5	---	---	---	---	1.0	0.5	6.0	5.0	12.5	9.5
22	16.0	13.5	---	---	---	---	1.0	0.0	6.5	5.0	10.5	9.5
23	15.5	15.0	7.5	6.0	---	---	0.5	0.0	7.5	6.5	10.0	8.5
24	---	---	8.0	7.5	---	---	1.0	0.5	9.0	7.5	9.5	8.5
25	---	---	7.5	6.5	---	---	2.5	1.0	9.0	8.5	10.5	9.0
26	15.0	13.5	---	---	---	---	2.0	1.0	10.5	8.5	12.0	9.5
27	13.0	12.0	---	---	---	---	3.5	2.0	11.0	10.0	13.5	11.0
28	13.0	13.0	---	---	---	---	3.5	2.5	10.0	9.0	14.5	13.5
29	13.0	11.0	---	---	---	---	3.5	0.5	---	---	14.0	12.5
30	12.5	11.5	---	---	---	---	1.5	0.0	---	---	15.5	14.0
31	12.0	10.5	---	---	---	---	1.0	0.5	---	---	16.0	14.5
MONTH	20.5	10.5	13.0	6.0	8.0	3.5	5.5	0.0	11.0	0.0	16.0	6.0

02383500 COOSAWATTEE RIVER NEAR PINE CHAPEL, GA.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MTN	MAX	MIN	MAX	MTN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	15.5	14.5	16.0	15.5			---	---	---	---	24.5	24.0
2	14.5	14.5	18.0	16.0			---	---	---	---	24.5	23.5
3	15.0	14.5	18.0	15.0			---	---	---	---	24.5	23.5
4	15.0	13.0	16.0	15.0			---	---	---	---	24.0	23.5
5	15.5	13.0	16.0	14.0			---	---	---	---	25.0	24.0
6	13.5	13.0	16.5	14.5			---	---	---	---	25.0	24.0
7	13.0	12.0	16.5	15.0			---	---	---	---	24.5	23.5
8	13.0	12.0	18.5	16.5			---	---	---	---	24.5	23.0
9	13.0	11.5	19.5	18.0			---	---	---	---	24.5	23.5
10	13.0	11.5	17.5	14.5			---	---	---	---	24.0	23.5
11	13.0	11.5	15.5	14.0			---	---	---	---	24.0	23.0
12	13.0	11.5	16.5	15.0			---	---	---	---	23.0	22.0
13	13.0	12.0	17.5	15.5			---	---	---	---	23.5	23.0
14	13.5	12.0	16.5	15.0			---	---	---	---	24.0	23.0
15	13.5	12.5	17.5	15.5			22.0	21.0	---	---	24.5	23.5
16	13.5	12.5	18.5	16.0			22.0	21.0	---	---	24.0	22.5
17	13.5	12.5	17.5	16.0			22.0	21.5	---	---	24.5	23.5
18	14.5	13.0	17.0	15.5			23.0	21.5	---	---	24.5	24.0
19	14.5	12.5	17.5	15.5			23.5	21.0	---	---	24.0	23.5
20	14.5	13.0	17.5	16.0			23.0	22.0	---	---	23.5	23.0
21	14.0	13.0	19.0	17.0			23.0	22.0	---	---	23.5	22.5
22	14.0	13.5	20.0	19.0			23.0	22.5	---	---	22.5	22.0
23	14.0	13.0	19.5	18.5			22.5	22.0	---	---	23.0	22.5
24	15.5	14.0	19.5	17.0			22.5	22.0	---	---	23.5	22.5
25	15.5	14.5	18.0	16.5			22.5	22.0	---	---	23.5	23.0
26	14.0	12.5	18.0	17.0			22.5	21.5	---	---	23.5	22.5
27	14.0	12.5	18.5	18.0			22.0	20.5	---	---	23.5	23.0
28	14.5	13.0	18.5	18.0			22.5	21.5	---	---	23.5	22.5
29	14.5	13.0	20.0	18.0			21.5	21.0	---	---	22.5	21.5
30	15.5	13.5	20.5	19.0			22.0	21.0	---	---	22.0	21.5
31	---	---	---	---			---	---	24.5	24.0	---	---
MONTH	15.5	11.5	20.5	14.0			23.5	20.5	---	---	25.0	21.5
YEAR	25.0	0.0										

NOTE: NUMBER OF MISSING DAYS OF RECORD EXCEEDED 20% OF YEAR

02383540 COOSAWATTEE RIVER NEAR CALHOUN, GA.

LOCATION.--Lat 34°32'28", long 84°54'03", Gordon County, Hydrologic Unit 03150102, at bridge on State Highway 225, 0.2 mi (0.3 km) upstream from confluence with Conasauga River, and 4.0 mi (6.4 km) northeast of Calhoun.

DRAINAGE AREA.--864 mi² (2,240 km²).

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Carters Lake and Carters re-regulation reservoir. (See "Lakes and Reservoirs in Mobile River Basin", stations 02381400, 02382400.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV						
02...	1100	878	7.2	10.5	11.0	9.6
DEC						
06...	1145	371	7.1	6.5	5.0	11.6
JAN						
11...	1245	5770	7.1	-4.5	3.0	12.3
FEB						
14...	1325	630	7.6	14.0	5.5	12.6
MAR						
21...	1405	1390	7.5	9.0	11.0	9.6
APR						
26...	1120	4400	7.1	15.5	11.0	9.9
JUN						
06...	1230	770	7.2	28.0	20.0	9.3
JUL						
18...	0955	455	7.5	29.5	22.0	8.5
AUG						
29...	1115	315	7.4	30.5	24.0	7.5
SEP						
26...	1100	497	7.2	25.0	23.0	6.9

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- IDY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH)	HARD- NESS (CA+MG) (MG/L)	ALKA- LINIT- AS CAC03 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV											
02...	60	15	4	.4	--	24	18	.11	<.02	<.02	1.0
DEC											
06...	84	20	4	.9	91	35	32	.15	<.02	<.02	8.0
JAN											
11...	44	35	29	.6	930	16	14	.14	.02	.05	3.0
FEB											
14...	102	<5	9	.3	36	44	41	.25	.02	.02	3.0
MAR											
21...	82	20	24	.4	91	35	32	.25	<.02	.04	2.0
APR											
26...	42	20	20	.3	230	14	13	.16	<.02	.03	1.0
JUN											
06...	54	15	17	.8	40	24	21	.17	<.02	.02	1.0
JUL											
18...	65	--	10	.4	150	26	--	.17	<.02	<.02	2.0
AUG											
29...	69	--	10	.9	90	236	--	.23	.11	.02	2.5
SEP											
26...	72	--	15	.7	4300	34	--	.17	<.02	.03	4.0

MOBILE RIVER BASIN

02384748 CONASAUGA RIVER NEAR DALTON, GA.

LOCATION.--Lat 34°47'20", long 84°52'30", Whitfield-Murray County line, Hydrologic Unit 03150101, at Dalton water works intake, 0.4 mi (0.6 km) upstream from U.S. Highway 76, and 5.5 mi (8.8 km) east of Dalton.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA: WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV						
02...	1450	284	7.4	15.0	8.5	10.8
DEC						
07...	1300	1380	7.4	7.5	5.0	10.8
JAN						
11...	1605	2090	6.9	-3.0	1.5	12.4
FEB						
14...	1555	282	7.7	17.0	6.0	13.2
MAR						
21...	1720	499	7.2	8.5	11.0	9.4
APR						
26...	1500	415	7.8	14.5	14.0	8.6
MAY						
16...	1245	188	7.6	29.0	19.0	8.5
JUN						
06...	1415	140	7.6	32.0	25.0	8.8
JUL						
18...	1345	50	7.5	37.0	27.0	6.2
AUG						
30...	0855	54	7.6	30.0	25.0	6.7
SEP						
26...	1420	520	7.2	27.0	21.0	7.1

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	CON- FIRMED COLI- FORM (MPN)	HARD- NESS (CA, MG) (MG/L)
NOV							
02...	63	30	6	.8	36	2300	27
DEC							
07...	89	90	72	2.5	2200	93000	41
JAN							
11...	62	25	21	.6	91	2300	26
FEB							
14...	113	<5	8	.5	30	4300	52
MAR							
21...	99	10	16	.5	91	7500	46
APR							
26...	90	10	13	.4	230	4300	39
MAY							
16...	108	5	11	.8	430	4300	52
JUN							
06...	114	25	22	.6	210	2300	54
JUL							
18...	147	--	21	.7	190	2300	--
AUG							
30...	133	--	30	.6	430	3900	60
SEP							
26...	108	--	108	1.6	43000	230000	50

02384748 CONASAUGA RIVER NEAR DALTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	ALKA- LITY AS CAC03 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV								
02...	24	8	.03	<.02	.03	310	<50	2.0
DEC								
07...	33	76	.16	<.02	.15	3300	110	15
JAN								
11...	23	16	.18	<.02	.04	700	<50	3.0
FEB								
14...	49	6	.19	<.02	<.02	930	70	1.0
MAR								
21...	44	22	.23	<.02	.02	440	<50	<1.0
APR								
26...	82	22	.20	<.02	.03	370	50	2.0
MAY								
16...	50	14	.22	<.02	.03	590	<50	2.0
JUN								
06...	53	37	.23	<.02	.04	690	50	4.0
JUL								
18...	--	--	.20	<.02	.04	--	--	2.0
AUG								
30...	--	38	.31	--	.04	--	--	2.0
SEP								
26...	--	146	.21	<.02	.13	--	--	7.0

MOBILE RIVER BASIN

02385800 HOLLY CREEK NEAR CHATSWORTH, GA.

LOCATION.--Lat 34°43'00", long 84°46'12", Murray County, Hydrologic Unit 03150101, on right bank 100 ft (30 m) upstream from bridge on county road, 3 mi (4.8 km) upstream from Rock Creek, and 3.3 mi (5.3 km) south of Chatsworth.

DRAINAGE AREA.--64.9 mi² (168 km²).

PERIOD OF RECORD.--June 1960 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 690 ft (210 m), from topographic map.

REMARKS.--Records fair. Records of chemical analyses for the water years 1968-74 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--17 years, 119 ft³/s (3.37 m³/s), 24.90 in/yr (632.5 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,040 ft³/s (171 m³/s) Mar. 15, 1964, gage height, 11.37 ft (3.466 m); minimum, 2.0 ft³/s (57 l/s) Sept. 2, 1962.

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)
Mar. 13	0700	4810 136	10.64 3.243	Apr. 3	1500	3360 95.2	9.74 2.969
Mar. 30	1200	4000 113	10.17 3.100	Apr. 5	0700	*5500 156	11.00 3.353

Minimum discharge, 7.1 ft³/s (0.201 m³/s) Aug. 7, 8.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	44	72	136	45	173	403	62	27	16	10	9.3
2	11	30	53	107	46	132	254	65	25	76	9.4	9.7
3	10	23	41	100	44	109	2320	107	24	26	8.7	9.2
4	9.9	21	34	103	43	129	1470	102	22	19	8.3	8.4
5	8.8	18	29	115	44	119	3370	76	21	16	8.1	8.5
6	8.8	17	72	132	35	433	990	61	20	15	7.8	9.7
7	12	17	431	375	31	318	407	56	38	14	7.3	46
8	48	16	190	183	31	169	281	55	23	13	7.3	137
9	66	16	102	293	36	123	217	51	20	13	20	32
10	24	15	73	592	35	102	179	47	19	18	24	23
11	16	16	67	400	33	87	154	46	18	14	62	53
12	13	20	322	200	38	542	136	44	17	12	21	20
13	12	19	305	150	64	2900	125	41	17	12	14	66
14	11	17	145	140	46	674	117	39	48	11	12	319
15	11	28	257	220	40	279	108	38	25	11	15	94
16	11	26	183	170	35	194	103	36	22	9.7	31	611
17	10	20	123	140	31	148	92	34	20	9.2	34	317
18	9.9	18	93	121	34	130	86	32	29	9.2	115	156
19	9.8	17	73	108	33	116	88	30	40	8.8	38	95
20	10	17	245	100	31	144	78	30	24	8.4	22	68
21	13	17	322	92	29	116	72	31	26	8.1	17	50
22	11	16	150	80	29	189	86	30	22	7.5	15	38
23	11	15	114	72	28	127	162	50	22	8.4	16	31
24	12	15	91	71	431	109	147	43	25	8.5	17	27
25	81	15	119	73	207	95	104	39	18	20	17	28
26	79	15	334	69	124	85	87	44	21	47	13	240
27	31	28	169	70	410	78	77	57	31	15	11	261
28	22	157	128	69	363	80	69	38	20	11	10	149
29	18	387	104	48	---	204	65	34	17	10	9.9	83
30	30	123	83	54	---	2860	67	32	16	12	9.5	79
31	86	---	197	55	---	1480	---	28	---	12	9.2	---
TOTAL	719.2	1203	4721	4638	2396	12444	11914	1478	717	490.8	619.5	3077.8
MEAN	23.2	40.1	152	150	85.6	401	397	47.7	23.9	15.8	20.0	103
MAX	86	387	431	592	431	2900	3370	107	48	76	115	611
MIN	8.8	15	29	48	28	78	65	28	16	7.5	7.3	8.4
CFSM	.36	.62	2.34	2.31	1.32	6.18	6.12	.74	.37	.24	.31	1.59
IN.	.41	.69	2.71	2.66	1.37	7.13	6.83	.85	.41	.28	.36	1.76
CAL YR 1976	TOTAL	48435.3	MEAN 132	MAX 1790	MIN 8.2	CFSM 2.03	IN 27.76					
WTR YR 1977	TOTAL	44418.3	MEAN 122	MAX 3370	MIN 7.3	CFSM 1.88	IN 25.46					

02387000 CONASAUGA RIVER AT TILTON, GA.

LOCATION.--Lat 34°40'00", long 84°55'42", Whitfield-Murray County line, Hydrologic Unit 03150101, on left bank 250 ft (76 m) downstream from highway bridge, 0.2 mi (0.3 km) downstream from Swamp Creek, 0.5 mi (0.8 km) northeast of Tilton, and 12 mi (19.3 km) upstream from confluence with Coosawattee River.

DRAINAGE AREA.--682 mi² (1,770 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 622.28 ft (189.67 m) above mean sea level (levels by Corps of Engineers). Prior to Aug. 24, 1940, nonrecording gage at site 150 ft (46 m) upstream at same datum. Water-stage recorder on Oostanaula River at Resaca used as auxiliary gage since 1961.

REMARKS.--Records good.

AVERAGE DISCHARGE.--40 years, 1,201 ft³/s (34.0 m³/s), 23.91 in/yr (607.3 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,000 ft³/s (821 m³/s) Mar. 30, 1951; maximum gage height, 30.2 ft (9.20 m) Mar. 30, 1951, backwater from Coosawattee River; minimum discharge, 50 ft³/s (1.42 m³/s) Nov. 1, 1974, caused by construction upstream; minimum unregulated discharge, 68 ft³/s (1.93 m³/s) Oct. 24, 25, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,700 ft³/s (558 m³/s) April 6, gage height, 24.34 ft (7.419 m); minimum, 84 ft³/s (2.38 m³/s) Sept. 3.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	250	780	1830	2300	596	3100	16800	655	492	292	172	98
2	214	704	936	1730	520	1840	13200	680	416	484	160	94
3	199	516	724	1280	524	1400	10100	804	368	492	139	92
4	193	404	588	1230	552	1420	9860	1030	334	334	133	96
5	178	334	500	1280	564	1820	13800	908	322	292	126	96
6	184	296	508	1400	552	2880	17500	724	310	* 280	124	96
7	187	274	1860	2520	480	4700	17600	676	313	274	120	1080
8	241	247	3220	3230	424	3970	11700	672	356	274	160	2680
9	388	256	2050	2400	400	2240	4480	644	328	271	208	4900
10	644	235	1180	4540	428	1710	1940	552	286	372	301	4850
11	520	229	920	5720	464	1440	1540	480	274	265	286	1010
12	337	238	1560	4490	460	2870	1410	448	256	232	324	660
13	268	235	2980	2000	544	9700	1240	420	253	217	289	568
14	241	256	2500	1760	708	14000	1120	392	262	226	244	2280
15	220	265	1940	2560	624	17800	1030	384	340	229	175	2120
16	196	292	2820	2420	528	13400	929	372	376	202	250	2150
17	184	301	2160	1690	468	4880	833	348	298	199	424	3400
18	187	271	1410	1160	432	1770	776	344	277	190	800	3210
19	184	250	1080	1060	424	1560	740	380	328	172	1000	1660
20	181	238	1140	1020	424	1630	727	620	448	157	400	1100
21	181	241	2830	948	416	1690	671	396	331	142	250	928
22	187	238	2880	872	396	2140	654	376	352	139	200	680
23	187	226	1650	820	376	1930	1350	588	364	136	160	536
24	184	214	1260	792	2060	1480	2200	1200	412	136	180	440
25	334	205	1080	844	4300	1260	1670	1090	528	160	151	384
26	712	211	2280	856	3180	1110	1070	868	304	492	139	700
27	948	262	2840	872	2020	1020	865	1220	271	340	124	2480
28	632	436	1890	896	3350	972	755	860	376	286	124	2140
29	424	2320	1430	828	---	1390	680	674	344	196	112	1310
30	356	3640	1150	652	---	7900	641	632	286	169	110	968
31	664	---	1340	564	---	13400	---	556	---	157	104	---
TOTAL	10005	14614	52536	54734	26214	128422	137881	19993	10205	7807	7489	42806
MEAN	323	467	1695	1766	936	4143	4596	645	340	252	242	1427
MAX	948	3640	3220	5720	4300	17800	17600	1220	528	492	1000	4900
MIN	178	205	500	564	376	972	641	344	253	136	104	92
CFSM	.47	.71	2.49	2.59	1.37	6.08	6.74	.95	.50	.37	.36	2.09
IN.	.55	.80	2.87	2.99	1.43	7.00	7.52	1.09	.56	.43	.41	2.33
CAL YR 1976	TOTAL	480268	MEAN	1312	MAX	10200	MIN	156	CFSM	1.92	IN	26.20
WTR YR 1977	TOTAL	512706	MEAN	1405	MAX	17800	MIN	92	CFSM	2.06	IN	27.97

MOBILE RIVER BASIN

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to current year.

pH: October 1975 to current year.

WATER TEMPERATURES: October 1975 to current year.

DISSOLVED OXYGEN: October 1975 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 376 micromhos Aug. 7, 1977; minimum, 45 micromhos Jan. 28, 1976.

pH: Maximum recorded, 8.7 units Feb. 28, Mar. 1, 1977; minimum recorded, 6.3 units July 5, 6, 1976.

WATER TEMPERATURE: Maximum, 31.5°C July 16, 1977; minimum recorded, 0.5°C Feb. 1, 2, 1977.

DISSOLVED OXYGEN: Maximum recorded, 13.6 mg/L Jan. 31, 1977; minimum recorded, 0.6 mg/L July 1, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 376 micromhos Aug. 7; minimum, 50 micromhos Mar. 15.

pH: Maximum recorded, 8.7 units Feb. 28, Mar. 1; minimum recorded, 6.5 units Nov. 10, Mar. 14, 15.

WATER TEMPERATURE: Maximum, 31.5°C July 16; minimum recorded, 0.5°C Feb. 1, 2.

DISSOLVED OXYGEN: Maximum recorded, 13.6 mg/L Jan. 31; minimum recorded, 0.6 mg/L July 1.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV 01...	1335	808	7.5	15.0	9.0	9.1
DEC 06...	1420	440	7.6	6.0	4.0	11.0
JAN 11...	1450	5840	7.2	-2.5	1.5	12.4
FEB 14...	1440	724	7.8	17.0	5.5	12.0
MAR 21...	1610	1620	7.2	9.0	12.0	9.0
APR 26...	1350	1030	7.5	16.0	15.0	7.9
MAY 16...	1150	368	7.2	28.0	19.0	6.9
JUN 06...	1320	307	7.3	28.0	25.0	5.9
JUL 18...	1235	187	7.4	32.5	28.5	5.8
AUG 29...	1455	110	7.4	30.0	28.0	--
SEP 26...	1300	612	7.2	26.0	21.0	5.7

MOBILE RIVER BASIN

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02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- CORALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA,MG) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV												
01...	145	50	21	3.4	1500	60	50	--	.44	.05	.68	12
DEC												
06...	141	30	7	.8	930	65	55	--	.36	<.02	.17	15
JAN												
11...	68	65	50	1.7	1500	26	24	--	.18	.02	.16	7.0
FEB												
14...	159	5	18	1.2	4300	72	66	--	.35	.06	.23	4.0
MAR												
21...	117	25	32	1.0	2300	52	43	--	.31	.04	.11	2.0
APR												
26...	128	30	31	1.7	230	50	47	--	.23	.11	.19	6.0
MAY												
16...	148	5	15	1.6	91	66	65	--	.39	.10	.19	3.0
JUN												
06...	168	40	20	1.3	40	71	69	--	.45	.12	.24	4.0
JUL												
18...	251	--	10	1.7	430	94	--	12	.62	.06	1.0	6.0
AUG												
29...	226	--	13	1.2	1500	78	--	6	.82	.10	.16	5.5
SEP												
26...	193	--	33	2.0	9300	72	--	43	.62	.11	.48	8.0

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	152	139	110	100	---	---	166	156	104	93
2	---	---	149	136	126	110	---	---	177	152	110	98
3	209	179	159	136	145	122	---	---	177	160	115	108
4	182	170	163	150	160	133	---	---	183	163	126	113
5	234	177	173	152	164	142	---	---	181	167	123	115
6	252	232	177	161	158	146	---	---	169	152	118	100
7	298	233	168	151	184	121	---	---	163	149	97	85
8	267	234	158	149	122	100	---	---	189	162	92	82
9	236	181	195	153	107	98	---	---	196	182	99	90
10	187	142	211	187	127	106	---	---	198	185	104	97
11	143	132	230	202	137	125	---	---	200	190	108	100
12	164	141	228	214	148	124	---	---	198	182	110	59
13	184	159	224	208	126	114	---	---	187	176	78	64
14	205	181	215	170	120	109	---	---	179	168	65	53
15	217	187	172	166	133	111	---	---	189	181	57	50
16	223	206	216	176	128	114	---	---	188	181	70	53
17	214	183	211	200	125	111	---	---	189	179	85	75
18	182	174	224	199	121	114	---	---	193	180	95	88
19	225	171	236	213	136	119	---	---	195	183	101	96
20	247	222	237	223	147	126	---	---	180	170	108	103
21	254	229	227	197	140	102	---	---	171	161	113	109
22	255	233	199	179	101	87	---	---	189	168	122	114
23	246	229	239	185	100	92	---	---	193	181	119	116
24	230	196	235	223	109	98	---	---	186	130	123	119
25	215	193	246	235	125	107	---	---	127	105	126	122
26	214	180	236	183	124	110	155	148	120	107	129	125
27	179	134	218	182	112	105	163	147	126	117	128	124
28	137	126	203	184	119	107	189	157	123	98	133	126
29	152	132	190	126	126	121	161	147	---	---	---	---
30	159	148	119	90	---	---	149	142	---	---	---	---
31	175	143	---	---	---	---	164	140	---	---	---	---
MONTH	298	126	246	90	184	87	189	140	200	98	133	50
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	149	140	171	146	253	241	248	226	307	295
2	---	---	150	138	179	165	---	---	247	218	---	---
3	---	---	174	149	190	164	---	---	288	246	---	---
4	---	---	163	152	192	179	---	---	314	288	---	---
5	---	---	188	158	184	174	169	165	344	318	---	---
6	---	---	199	167	175	164	203	166	357	333	---	---
7	---	---	---	---	201	173	210	193	376	348	---	---
8	---	---	---	---	199	182	205	193	355	287	---	---
9	---	---	---	---	196	177	230	191	281	240	---	---
10	---	---	---	---	203	189	216	194	323	259	---	---
11	101	97	169	161	205	195	206	183	276	235	---	---
12	108	100	171	160	206	190	228	175	281	240	129	122
13	117	109	173	161	208	183	267	227	248	212	153	123
14	123	118	173	160	230	190	299	261	233	205	128	93
15	127	124	167	155	228	220	306	281	198	174	94	88
16	131	125	161	149	218	193	313	281	257	190	---	---
17	130	125	189	162	210	202	304	271	252	177	---	---
18	133	125	200	182	239	209	265	243	201	155	---	---
19	144	136	205	193	232	196	283	234	163	93	---	---
20	147	142	195	154	195	167	312	273	118	92	---	---
21	148	145	192	179	---	---	326	292	130	111	---	---
22	153	145	191	163	---	---	359	316	156	127	164	156
23	158	136	184	157	219	198	366	342	181	135	171	160
24	144	132	159	119	230	197	359	345	199	184	192	165
25	130	121	134	115	212	178	---	---	217	186	175	164
26	131	129	155	127	220	205	---	---	235	212	189	158
27	134	131	133	117	215	185	231	204	251	231	162	111
28	140	132	129	122	235	192	234	214	244	231	118	106
29	145	141	132	124	216	198	232	214	241	223	123	113
30	146	142	135	130	247	218	256	233	258	210	135	121
31	---	---	146	135	---	---	273	252	311	260	---	---
MONTH	158	97	205	115	247	146	366	165	376	92	307	88

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	7.3	7.1			---	---	7.6	7.4	8.7	8.5
2	---	---	7.3	7.0			---	---	7.6	7.5	8.4	8.0
3	7.2	7.1	7.2	7.0			---	---	7.6	7.4	8.0	7.9
4	7.2	7.1	7.2	6.9			---	---	7.6	7.5	7.9	7.3
5	7.2	7.0	7.2	7.0			---	---	7.7	7.6	7.4	7.4
6	7.1	7.1	7.2	6.9			---	---	7.8	7.7	7.4	7.3
7	7.2	7.1	7.1	6.8			---	---	7.8	7.7	7.3	7.2
8	7.2	7.0	7.1	6.9			---	---	7.7	7.6	7.2	7.2
9	7.2	7.1	7.1	6.6			---	---	7.8	7.6	7.3	7.2
10	7.2	7.1	6.9	6.5			---	---	7.7	7.6	7.4	7.3
11	7.2	7.1	7.1	6.8			---	---	7.7	7.6	7.4	7.3
12	7.2	7.0	7.2	7.0			---	---	7.6	7.6	7.4	6.7
13	7.2	6.9	7.1	6.9			---	---	7.7	7.6	7.0	6.7
14	7.2	7.0	7.0	6.9			---	---	7.7	7.6	6.7	6.5
15	7.3	7.1	7.0	6.9			---	---	7.6	7.5	6.6	6.5
16	7.4	7.3	7.0	6.8			---	---	7.6	7.5	6.8	6.6
17	7.4	7.3	6.9	6.7			---	---	7.6	7.5	7.1	6.8
18	7.5	7.4	7.0	6.6			---	---	7.7	7.6	7.2	7.1
19	7.5	7.2	7.0	6.8			---	---	7.8	7.7	7.3	7.2
20	7.4	7.2	7.0	7.0			---	---	8.1	8.0	7.3	7.3
21	7.4	7.2	7.2	7.0			---	---	8.3	8.2	7.3	7.3
22	7.5	7.2	7.2	7.1			---	---	8.4	8.1	7.3	7.3
23	7.4	7.2	7.2	6.9			---	---	8.4	8.3	7.3	7.3
24	7.3	7.2	7.0	6.7			---	---	8.5	8.1	7.3	7.3
25	7.3	7.2	7.1	6.8			---	---	8.4	8.2	7.3	7.3
26	7.3	7.2	7.1	7.0			---	---	8.4	8.3	7.3	7.3
27	7.3	7.0	7.1	6.8			---	---	8.7	8.6	7.5	7.3
28	7.3	7.1	7.3	7.1			---	---	8.7	8.6	7.4	7.3
29	7.3	7.1	---	---			---	---	---	---	---	---
30	7.2	7.1	---	---			---	---	---	---	---	---
31	7.3	7.2	---	---			7.5	7.5	---	---	---	---
MONTH	7.5	6.9	7.3	6.5			---	---	8.7	7.4	8.7	6.5
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	7.4	7.3	7.1	7.1	7.0	6.9	7.1	7.0	7.1	7.1
2	---	---	7.4	7.3	7.1	7.0	---	---	7.2	7.1	---	---
3	---	---	7.3	7.1	7.1	7.0	---	---	7.1	7.1	---	---
4	---	---	7.2	7.1	7.1	7.0	---	---	7.1	7.0	---	---
5	---	---	7.2	7.2	7.1	7.0	7.1	7.1	7.1	7.0	---	---
6	---	---	7.2	7.1	7.1	7.1	7.2	7.1	7.1	7.0	---	---
7	---	---	---	---	7.1	7.0	7.2	7.1	7.1	7.0	---	---
8	---	---	---	---	7.1	7.1	7.3	7.1	7.1	7.0	---	---
9	---	---	---	---	7.1	7.1	7.3	7.2	7.2	7.1	---	---
10	---	---	---	---	7.1	7.1	7.3	7.1	7.1	6.9	---	---
11	7.2	7.2	7.3	7.2	7.1	7.0	7.4	7.1	7.2	7.0	---	---
12	7.2	7.2	7.3	7.2	7.1	7.1	7.2	7.0	7.1	7.0	7.3	7.1
13	7.2	7.2	7.3	7.2	7.2	7.1	7.1	7.0	7.1	7.0	7.3	7.1
14	7.2	7.2	7.3	7.2	7.1	7.0	7.1	7.0	7.1	7.0	7.1	7.0
15	7.2	7.2	7.3	7.3	7.0	7.0	7.1	7.0	7.1	7.0	7.0	7.0
16	7.2	7.2	7.4	7.2	7.0	6.9	7.1	7.0	7.1	7.0	---	---
17	7.3	7.2	7.2	7.1	6.9	6.9	7.2	7.0	7.2	7.0	---	---
18	7.3	7.3	7.1	7.1	6.9	6.9	7.3	7.1	7.2	7.0	---	---
19	7.3	7.2	7.1	7.1	7.0	6.9	7.4	7.1	7.1	6.9	---	---
20	7.2	7.2	7.2	7.0	7.1	7.0	7.2	7.1	7.0	6.9	---	---
21	7.2	7.2	7.0	6.9	---	---	7.2	7.1	7.0	7.0	---	---
22	7.2	7.2	7.1	6.9	---	---	7.1	7.1	7.1	7.0	7.2	7.1
23	7.2	7.2	7.2	7.0	7.1	7.0	7.1	7.1	7.1	7.0	7.2	7.0
24	7.3	7.2	7.1	6.9	7.0	7.0	7.1	7.0	7.1	7.0	7.1	7.0
25	7.3	7.2	7.1	6.8	7.0	6.9	---	---	7.1	6.9	7.2	7.1
26	7.3	7.2	7.1	7.0	7.0	7.0	---	---	7.0	6.9	7.3	7.2
27	7.3	7.2	7.1	7.1	7.1	7.0	7.1	7.0	7.0	7.0	7.2	7.1
28	7.3	7.3	7.1	7.0	7.0	7.0	7.1	7.0	7.1	7.0	7.1	7.0
29	7.3	7.2	7.2	7.1	7.0	6.9	7.1	7.0	7.2	7.1	7.2	7.1
30	7.3	7.3	7.2	7.2	6.9	6.9	7.0	7.0	7.2	7.1	7.2	7.1
31	---	---	7.2	7.1	---	---	7.0	7.0	7.1	7.1	---	---
MONTH	7.3	7.2	7.4	6.8	7.2	6.9	7.4	6.9	7.2	6.9	7.3	7.0

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	11.0	10.0	---	---	---	---	2.0	0.5	9.5	8.5
2	---	---	11.0	10.0	---	---	---	---	3.0	0.5	9.0	7.5
3	21.0	19.0	11.5	10.0	---	---	---	---	2.5	1.5	9.0	8.5
4	20.5	19.0	11.5	10.0	---	---	---	---	4.5	2.5	11.5	9.5
5	21.0	19.5	10.5	9.0	---	---	---	---	5.5	4.5	11.0	10.5
6	21.0	20.5	9.5	7.5	---	---	---	---	4.5	3.0	11.0	9.5
7	21.0	20.5	9.5	7.5	---	---	---	---	3.5	2.0	9.5	9.0
8	20.5	19.5	8.5	7.0	7.0	6.0	---	---	3.5	2.0	10.0	9.0
9	19.5	17.5	8.5	6.5	6.0	5.0	---	---	4.0	2.0	10.5	9.0
10	17.0	15.5	10.5	8.0	9.0	5.5	---	---	5.5	3.0	11.5	10.0
11	16.0	15.0	10.5	9.5	10.0	7.5	---	---	6.0	4.0	13.0	11.5
12	16.5	14.5	10.5	9.0	8.5	7.0	---	---	6.5	5.5	15.0	13.0
13	17.0	15.0	9.0	8.0	7.5	7.5	---	---	7.5	6.0	15.5	14.5
14	18.0	16.5	8.5	6.5	10.0	7.0	---	---	8.0	5.5	16.0	14.5
15	17.0	16.0	7.0	6.5	9.5	7.0	---	---	8.0	7.0	15.5	14.5
16	17.5	16.5	8.5	7.0	9.5	6.5	---	---	7.0	5.5	16.0	15.0
17	17.5	15.5	9.0	8.0	9.5	5.0	---	---	6.0	4.5	15.5	14.0
18	15.5	14.0	10.0	8.0	7.0	5.0	---	---	7.5	5.0	15.0	14.0
19	14.0	13.0	10.5	9.0	9.5	5.5	---	---	8.5	6.0	15.0	14.5
20	15.5	14.0	11.5	10.5	9.0	2.5	---	---	8.0	7.0	15.0	14.0
21	15.0	13.5	11.0	9.0	5.5	3.0	---	---	7.5	5.5	14.5	13.5
22	14.5	12.5	9.0	6.5	3.0	1.0	---	---	8.5	5.5	13.5	12.5
23	14.0	13.0	7.0	5.5	3.5	1.5	---	---	10.5	8.5	12.5	11.5
24	14.0	14.0	8.0	6.5	3.0	2.5	---	---	10.5	9.0	13.0	11.0
25	14.5	14.0	8.5	7.0	5.5	2.5	---	---	10.5	10.0	14.5	12.0
26	14.5	13.5	8.5	7.5	4.0	2.0	3.5	3.5	11.5	10.5	15.0	13.0
27	13.5	12.5	10.0	8.0	4.5	4.0	5.0	3.0	12.0	11.5	15.5	14.0
28	12.5	11.5	11.0	10.0	6.5	4.5	5.5	4.5	11.5	9.5	17.5	14.5
29	11.5	10.5	11.0	9.0	6.5	6.0	4.0	2.0	---	---	---	---
30	11.5	11.0	---	---	---	---	2.0	1.0	---	---	---	---
31	11.5	11.0	---	---	---	---	2.0	1.0	---	---	---	---
MONTH	21.0	10.5	11.5	5.5	10.0	1.0	5.5	1.0	12.0	0.5	17.5	7.5
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	18.5	17.5	25.5	23.5	28.5	27.0	28.5	26.5	28.0	27.0
2	---	---	19.0	17.5	25.0	23.5	---	---	29.0	27.0	---	---
3	---	---	19.5	18.5	25.5	23.0	---	---	29.0	27.0	---	---
4	---	---	19.5	19.0	25.5	23.0	---	---	29.0	27.0	---	---
5	---	---	20.5	19.0	25.5	23.5	27.0	26.0	30.5	27.5	---	---
6	---	---	21.5	20.0	25.5	23.5	29.0	26.5	30.0	28.0	---	---
7	---	---	---	---	25.0	23.0	29.5	27.5	30.5	28.5	---	---
8	---	---	---	---	23.5	21.5	30.0	28.0	30.0	27.5	---	---
9	---	---	---	---	23.5	21.0	30.0	28.5	28.0	26.0	---	---
10	---	---	---	---	23.5	21.5	29.0	27.5	28.5	26.5	---	---
11	17.0	16.0	19.5	18.0	24.0	22.0	29.0	27.5	28.5	26.5	---	---
12	18.5	16.5	20.0	18.0	26.0	23.5	28.5	27.5	28.5	27.0	23.5	22.5
13	19.0	17.5	20.5	18.0	26.5	24.5	29.5	27.0	28.5	27.0	23.5	22.5
14	19.5	18.0	20.5	19.0	26.0	25.5	31.0	28.5	28.0	27.0	22.5	22.0
15	20.0	18.5	21.0	18.5	26.0	25.5	31.0	29.5	28.0	26.5	22.5	22.0
16	20.5	18.5	21.5	19.5	25.5	24.0	31.5	29.0	28.0	27.0	---	---
17	20.0	18.5	23.0	20.5	26.0	25.0	31.0	29.0	27.5	26.0	---	---
18	20.0	18.5	23.5	21.5	26.5	25.0	30.5	28.0	27.0	26.0	---	---
19	20.0	19.0	24.0	21.5	27.0	25.0	30.5	28.0	26.0	24.5	---	---
20	20.0	19.0	23.5	21.5	27.0	25.0	31.0	28.5	25.5	24.0	---	---
21	19.5	18.5	23.5	21.5	---	---	31.0	28.5	25.5	23.5	---	---
22	19.0	18.5	23.0	21.5	---	---	30.5	29.0	26.0	24.5	22.5	21.5
23	19.0	18.5	22.0	21.0	27.0	26.0	30.0	28.0	26.5	25.0	22.5	21.0
24	18.5	18.0	21.5	20.0	28.0	26.0	29.5	27.5	26.5	25.5	23.0	21.5
25	18.0	17.0	20.5	19.5	27.5	25.5	---	---	27.0	26.0	22.5	21.5
26	17.0	16.0	21.0	20.5	27.5	26.0	---	---	27.0	26.5	22.0	21.0
27	16.5	14.5	21.5	20.0	28.0	26.0	27.5	26.0	28.0	26.5	21.5	20.5
28	17.0	15.0	22.0	20.5	28.5	27.0	27.5	25.5	28.0	26.5	21.0	20.5
29	17.5	16.5	23.0	21.0	28.5	27.0	25.5	25.0	28.5	26.0	20.5	19.5
30	18.0	17.5	23.5	22.0	28.5	27.0	26.5	24.5	28.5	26.5	19.5	19.0
31	---	---	24.5	23.0	---	---	28.0	26.5	29.0	26.5	---	---
MONTH	20.5	14.5	24.5	17.5	28.5	21.0	31.5	24.5	30.5	23.5	28.0	19.0

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	9.4	9.0	---	---	---	---	13.3	12.7	11.3	10.6
2	---	---	9.4	8.7	---	---	---	---	13.3	12.6	11.1	10.7
3	6.4	5.8	9.1	7.9	---	---	---	---	13.1	12.6	10.9	10.5
4	6.6	6.5	8.6	8.0	---	---	---	---	13.0	12.4	10.7	10.0
5	6.7	5.6	8.7	8.4	---	---	---	---	12.6	12.3	10.3	10.0
6	5.7	4.9	9.4	9.0	---	---	---	---	12.8	12.4	10.6	10.2
7	5.6	4.9	9.8	9.1	---	---	---	---	13.1	12.8	10.7	10.4
8	5.5	4.6	9.9	9.6	12.5	11.1	---	---	13.0	12.3	10.7	10.6
9	6.4	5.4	10.4	9.6	11.1	9.4	---	---	12.9	12.3	10.8	10.5
10	7.8	6.6	10.2	8.9	---	---	---	---	12.6	12.1	10.5	10.2
11	8.0	7.7	9.8	9.1	---	---	---	---	12.4	11.9	10.2	9.7
12	8.0	7.1	9.3	9.1	---	---	---	---	12.1	11.6	9.7	9.0
13	7.7	6.6	9.7	9.1	---	---	---	---	11.7	11.5	8.9	7.7
14	7.0	5.9	11.0	9.9	---	---	---	---	11.7	11.6	7.6	7.3
15	7.0	6.1	11.3	11.0	---	---	---	---	11.5	11.2	7.8	7.5
16	6.7	6.2	11.1	9.8	---	---	---	---	11.7	11.5	7.6	7.5
17	7.2	6.5	10.2	9.9	---	---	---	---	12.1	11.7	8.9	7.5
18	8.0	7.4	10.5	9.8	---	---	---	---	12.1	11.6	9.0	8.9
19	8.2	7.1	10.2	9.8	---	---	---	---	12.0	11.5	9.0	8.8
20	7.7	6.6	9.8	9.6	---	---	---	---	12.0	11.6	9.0	8.9
21	7.5	6.4	10.3	9.5	---	---	---	---	12.3	11.9	9.2	8.9
22	7.3	6.2	11.2	10.3	---	---	---	---	12.1	10.5	9.4	9.0
23	6.7	6.3	11.3	10.8	12.5	12.0	---	---	11.5	10.6	9.7	9.4
24	6.6	6.4	11.0	10.3	12.3	11.7	---	---	10.8	8.8	9.7	9.5
25	6.8	5.9	10.9	10.4	11.7	11.1	---	---	10.1	9.9	9.6	9.2
26	7.1	5.4	11.3	10.4	12.1	11.7	12.9	12.3	10.0	9.9	9.4	9.2
27	8.4	7.3	11.1	9.6	11.7	11.3	12.5	12.1	10.0	9.7	9.6	9.3
28	9.2	8.8	---	---	11.3	10.6	12.2	11.4	10.6	9.8	10.8	9.4
29	9.7	9.3	---	---	---	---	12.7	12.0	---	---	---	---
30	10.0	9.1	---	---	---	---	13.3	12.8	---	---	---	---
31	9.6	8.7	---	---	---	---	13.6	13.1	---	---	---	---
MONTH	10.0	4.6	11.3	7.9	12.5	9.4	13.6	11.4	13.3	8.8	11.3	7.3
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	7.8	7.4	5.3	4.6	1.1	0.6	3.7	3.1	2.7	2.0
2	---	---	7.8	7.2	4.6	4.2	---	---	4.6	3.7	---	---
3	---	---	7.2	5.8	4.4	3.8	---	---	4.4	3.5	---	---
4	---	---	6.7	6.0	4.1	3.9	---	---	4.1	3.2	---	---
5	---	---	6.4	5.9	4.5	4.0	3.3	2.9	3.8	2.6	---	---
6	---	---	5.9	5.1	4.8	4.6	3.6	2.7	3.5	2.4	---	---
7	---	---	---	---	4.6	3.3	4.0	2.7	3.2	2.2	---	---
8	---	---	---	---	4.0	3.4	4.5	3.0	3.5	2.5	---	---
9	---	---	---	---	4.3	3.8	4.9	3.5	4.6	3.4	---	---
10	---	---	---	---	3.9	3.4	4.9	3.5	3.9	2.3	---	---
11	9.1	8.7	7.0	6.6	4.0	3.0	5.6	4.0	4.3	3.2	---	---
12	8.8	8.3	7.1	6.6	4.0	3.7	4.4	3.2	3.3	2.6	6.5	6.3
13	8.4	7.9	7.1	6.2	4.2	3.9	3.8	2.1	3.3	3.0	6.4	5.7
14	7.9	7.5	6.7	6.4	4.2	2.9	3.3	2.1	3.5	2.5	6.3	5.3
15	7.6	7.3	7.1	6.7	3.2	2.5	4.1	2.9	4.2	3.2	6.5	6.3
16	7.4	7.3	7.4	6.0	3.2	2.9	4.3	3.0	4.3	2.1	---	---
17	7.7	7.4	6.0	4.9	3.7	3.2	4.7	3.1	4.9	3.0	---	---
18	7.9	7.6	5.0	4.3	3.5	2.2	5.9	3.6	4.8	3.2	---	---
19	7.7	7.4	4.4	4.0	3.6	2.8	5.5	3.0	5.4	3.4	---	---
20	7.5	7.2	5.7	3.9	4.6	3.8	4.5	2.1	5.7	5.4	---	---
21	7.3	6.9	3.9	3.6	---	---	3.5	1.9	5.6	5.3	---	---
22	7.2	6.8	5.3	3.7	---	---	2.8	1.5	5.8	5.2	6.1	6.0
23	7.5	6.5	6.5	4.3	3.0	2.3	2.4	1.4	5.6	4.2	5.9	5.2
24	8.1	7.7	7.0	6.4	3.1	2.0	2.5	1.5	4.7	4.0	5.8	4.2
25	8.3	8.1	7.1	5.9	3.6	2.6	---	---	4.6	2.8	6.1	5.0
26	8.6	8.2	6.6	5.3	3.3	2.7	---	---	3.0	2.8	6.4	5.6
27	8.8	8.5	6.7	5.6	3.9	2.9	3.8	3.4	3.0	2.6	6.6	5.7
28	8.7	8.4	5.9	5.5	3.4	2.9	4.1	3.6	3.1	2.6	6.8	6.5
29	8.4	7.8	5.9	5.7	3.1	1.7	4.1	3.7	3.8	3.0	7.1	6.8
30	8.0	7.7	6.0	5.9	1.6	1.2	3.8	3.5	4.4	2.9	7.3	6.9
31	---	---	6.1	5.2	---	---	3.5	3.1	4.3	2.1	---	---
MONTH	9.1	6.5	7.8	3.6	5.3	1.2	5.9	0.6	5.8	2.1	7.3	2.0

MOBILE RIVER BASIN

02387050 CONASAUGA RIVER NEAR RESACA, GA.

LOCATION.--Lat 34°35'36", long 84°56'02", Gordon County, Hydrologic Unit 03150101, at county highway bridge, 1.1 mi (1.8 km) northeast of Resaca, and 5.1 mi (8.2 km) upstream from confluence with Coosawattee River.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTFMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV						
02...	1250	704	7.5	11.5	9.0	9.1
DEC						
06...	1345	444	7.5	5.0	4.5	11.4
JAN						
11...	1415	7200	7.0	-4.5	2.0	12.0
FEB						
14...	1400	708	7.8	18.0	5.5	11.3
MAR						
21...	1530	1760	7.6	9.0	12.0	8.8
APR						
26...	1315	1690	7.4	14.0	15.0	6.7
MAY						
16...	1110	411	7.2	28.0	19.5	5.8
JUN						
06...	1235	318	7.4	27.0	24.0	4.7
JUL						
18...	1155	162	7.3	31.5	28.0	4.8
AUG						
29...	1410	155	7.4	35.5	27.0	3.4
SEP						
26...	1215	631	7.2	25.0	22.0	5.1

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)	ALKA- LILITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV											
02...	153	70	25	1.8	930	62	54	.66	.04	.50	8.0
DEC											
06...	139	30	8	.7	930	59	55	.27	.02	.16	16
JAN											
11...	67	90	66	1.8	4300	28	23	.17	.02	.19	9.0
FEB											
14...	161	10	13	1.2	930	70	65	.31	.09	.20	3.0
MAR											
21...	113	20	35	1.1	930	49	46	.28	.03	.11	3.0
APR											
26...	128	50	33	3.0	4300	50	47	.28	.13	.25	8.0
MAY											
16...	158	15	15	1.2	150	70	67	.48	.07	.19	4.0
JUN											
06...	117	45	24	1.6	90	70	68	.54	.10	.29	4.0
JUL											
18...	284	--	18	1.9	<30	94	--	.60	.06	1.5	10
AUG											
29...	234	--	17	1.4	430	76	--	.78	.08	.54	7.0
SEP											
26...	174	--	24	1.0	2300	70	--	.39	.16	.32	4.0

02387500 OOSTANAULA RIVER AT RESACA, GA.

LOCATION.--Lat 34°34'42", long 84°56'29", Gordon County, Hydrologic Unit 03150103, near left bank on downstream side of pier of bridge on U.S. Highway 41 at Resaca, 200 ft (61 m) downstream from Nashville, Chattanooga, & St. Louis Railway bridge, 0.8 m (1.3 km) upstream from Camp Creek, and 3.5 mi (5.6 km) downstream from confluence of Conasauga and Coosawattee Rivers.

DRAINAGE AREA.--1,610 mi² (4,170 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1892 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at same site since 1892 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 697: 1896-1928. WSP 1504: 1897-1903, 1905-7, 1909, 1912-13, 1914-15(M), 1916-18, 1919(M), 1920-22, 1923(M), 1924, 1927, 1929-30, 1932, 1933(M), 1936(M), 1938(M), 1946-47(M).

GAGE.--Water-stage recorder. Datum of gage is 604.14 ft (184.14 m) above mean sea level (levels by Corps of Engineers).

REMARKS.--Records good. Flow regulated by Carters Lake and re-regulation dam. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400).

AVERAGE DISCHARGE.--85 years, 2,799 ft³/s (79.3 m³/s), 23.61 in/yr (599.7 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,800 ft³/s (1,550 m³/s) Mar. 31, 1951; maximum gage height, 34.6 ft (10.55 m) Mar. 31, 1951; minimum discharge observed, 180 ft³/s (5.10 m³/s) Sept. 7, 8, 1925, gage height, 0.5 ft (0.15 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1834, 36.6 ft (11.16 m) Apr. 1, 1886, from information by Georgia Department of Archives; discharge, 68,600 ft³/s (1,940 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29,000 ft³/s (821 m³/s) Apr. 6; maximum gage height, 28.40 ft (8.656 m) Apr. 6; minimum discharge, 381 ft³/s (10.8 m³/s) Sept. 4, gage height, 1.37 ft (0.418 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	900	1210	3930	3290	1340	5370	22200	3600	1430	895	668	466
2	700	1520	2220	2660	1500	5110	21200	1860	1600	810	798	455
3	658	1480	1290	2480	1620	4060	19200	2410	2130	1080	696	434
4	595	1040	1120	2580	1640	3670	18200	3660	3360	925	542	427
5	676	835	1020	2230	1640	3630	20600	3720	2070	1320	472	483
6	950	786	935	2330	1280	4220	25900	3620	1230	2200	494	605
7	1200	735	1990	4060	1140	6880	25900	3460	985	915	504	802
8	1260	676	3490	4860	1200	6630	22800	3220	1030	598	514	2670
9	1220	658	2960	4250	2700	4670	18400	1900	990	651	588	5330
10	1220	1800	2000	8210	3090	3490	12400	2260	910	686	1290	5470
11	1300	1360	1600	10400	1460	3170	8050	2540	885	682	1480	2070
12	1120	690	1400	8100	1030	3290	6800	2890	860	1200	1080	1140
13	860	735	2500	5430	1020	13000	6380	2510	806	975	1030	920
14	732	721	3640	4320	1200	15800	6150	2230	815	724	960	2450
15	578	742	2870	4610	1380	16300	5760	1680	950	690	810	3450
16	679	760	4050	4030	1310	16600	5660	1550	1010	679	845	3420
17	803	770	3900	2840	1300	13700	5670	2110	940	640	1560	4160
18	790	786	2290	3930	1560	8300	5620	2740	870	606	1240	4960
19	935	714	1860	2910	1380	6060	5190	2950	925	975	1700	3770
20	1280	696	2070	3250	1130	4930	5030	3350	1000	742	1300	1930
21	676	686	4720	2540	1060	3280	5010	2430	1110	570	815	1460
22	1350	679	5270	1720	1040	5980	5020	1920	1190	525	679	1180
23	1700	679	3960	1540	1130	6790	5660	1260	1390	472	860	995
24	1480	686	4540	1480	1420	5970	6390	1760	2150	458	895	975
25	1310	616	4210	1580	4770	5830	6180	1830	1290	480	778	935
26	1300	620	3160	1720	5920	4940	5300	1560	945	830	651	1110
27	1510	676	3960	1800	3500	2320	4790	1850	940	1590	550	2700
28	1400	865	3350	1680	5120	2110	4540	1450	1960	995	552	3560
29	1200	2430	2750	1680	---	3510	4480	1210	1400	732	497	1980
30	940	4720	2670	1720	---	14200	4360	1100	1700	676	483	1860
31	970	---	3290	1340	---	20100	---	1060	---	665	472	---
TOTAL	32292	31371	89015	105570	53880	223910	318840	71690	38871	25986	25803	62167
MEAN	1042	1046	2871	3405	1924	7223	10630	2313	1296	838	832	2072
MAX	1700	4770	5270	10400	5920	20100	25900	3720	3360	2200	1700	5470
MIN	578	616	935	1340	1020	2110	4360	1060	806	458	472	427

CAL YR 1976 TOTAL 1214226 MEAN 3318 MAX 18000 MIN 513 MEAN† 3316 CFSM† 2.06 IN† 28.03
WTR YR 1977 TOTAL 1079395 MEAN 2957 MAX 25900 MIN 427 MEAN† 2986 CFSM† 1.85 IN† 25.18

† Adjusted for change in contents in Carters Lake and re-regulation pool.

MOBILE RIVER BASIN

02387500 OOSTANAULA RIVER AT RESACA, GA.---Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.78	3.40	7.95	7.05	3.65	9.83	26.17	7.50	3.82	2.77	2.22	1.63
2	2.29	4.01	5.32	6.12	3.99	9.51	25.80	4.68	4.18	2.58	2.57	1.60
3	2.17	3.94	3.55	5.79	4.22	8.14	24.83	5.66	5.17	3.13	2.30	1.54
4	2.00	3.07	3.22	5.96	4.27	7.60	24.26	7.59	7.16	2.83	1.84	1.52
5	2.21	2.64	3.01	5.39	4.27	7.55	26.02	7.67	5.05	3.61	1.65	1.69
6	2.88	2.53	2.85	5.54	3.53	8.30	27.99	7.52	3.43	5.31	1.72	2.03
7	3.37	2.39	4.87	8.11	3.26	11.65	28.11	7.30	2.96	2.79	1.74	2.57
8	3.51	2.23	7.34	9.20	3.37	11.36	26.88	6.96	3.05	2.01	1.77	6.06
9	3.41	2.18	6.57	8.41	6.13	8.94	24.51	4.77	2.96	2.16	1.97	9.79
10	3.43	4.50	4.97	13.07	6.77	7.34	19.74	5.42	2.80	2.25	3.55	9.96
11	3.59	3.64	---	15.27	3.89	6.89	13.99	5.90	2.75	2.24	3.92	4.99
12	3.23	2.27	---	12.95	3.03	7.06	11.56	6.48	2.70	3.37	3.13	3.25
13	2.70	2.40	---	9.91	3.00	17.88	11.09	5.85	2.59	2.93	3.03	2.82
14	2.39	2.36	7.56	8.50	3.38	20.43	10.81	5.38	2.61	2.37	2.90	5.60
15	1.95	2.42	6.44	8.89	3.75	20.93	10.33	4.35	2.88	2.27	2.59	7.28
16	2.24	2.47	8.12	8.12	3.59	21.16	10.20	4.08	3.00	2.24	2.67	7.25
17	2.58	2.50	7.93	6.40	3.57	18.50	10.21	5.16	2.86	2.13	4.09	8.30
18	2.54	2.54	5.47	7.47	4.10	13.20	10.15	6.24	2.72	2.03	3.45	9.33
19	2.85	2.34	4.71	6.52	3.74	10.70	9.62	6.57	2.83	2.93	4.37	7.73
20	3.54	2.29	5.12	7.00	3.26	9.29	9.41	7.15	2.98	2.39	3.56	4.80
21	2.22	2.26	8.99	5.90	3.09	7.04	9.39	5.71	3.20	1.94	2.60	3.91
22	3.65	2.23	9.71	4.42	3.05	10.59	9.40	4.77	3.36	1.80	2.24	3.34
23	4.39	2.24	8.01	4.06	3.25	11.54	10.20	3.50	3.76	1.65	2.69	2.97
24	3.95	2.26	8.80	3.95	3.78	10.59	11.10	4.49	5.25	1.61	2.78	2.94
25	3.58	2.05	8.36	4.13	9.02	10.41	10.85	4.64	3.56	1.68	2.52	2.85
26	3.56	2.07	6.89	4.41	10.52	9.26	9.75	4.11	2.87	2.62	2.15	3.20
27	3.99	2.23	8.02	4.59	7.36	5.54	9.11	4.67	2.86	4.15	1.87	6.11
28	3.78	2.72	7.14	4.32	9.52	5.18	8.80	3.88	4.90	2.98	1.79	7.42
29	3.38	5.63	6.27	4.34	---	7.38	8.72	3.40	3.79	2.39	1.72	4.94
30	2.86	9.02	6.11	4.42	---	18.90	8.58	3.17	4.37	2.22	1.68	4.70
31	2.92	---	7.06	3.66	---	24.36	---	3.11	---	2.20	1.65	---
MFAN	3.03	2.96	---	6.92	4.58	11.52	15.25	5.41	3.55	2.57	2.54	4.74
MAX	4.39	9.02	---	15.27	10.52	24.36	28.11	7.67	7.16	5.31	4.37	9.96
MTN	1.95	2.05	---	3.66	3.00	5.18	8.58	3.11	2.59	1.61	1.65	1.52

02387500 OOSTANAULA RIVER AT RESACA, GA.--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: July 1967 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 28.0°C several days in June and July 1969 and July 24, 25, 1972; minimum recorded, 1.0°C Jan. 9-14, 1970, Jan. 16, 17, 21-24, Feb. 1, 1977.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 27.0°C July 8, 9, and Aug. 5-7; minimum recorded, 1.0°C Jan. 16, 17, 21-24, Feb. 1.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	18.0	18.0	10.5	9.5	7.0	7.0	3.0	2.0	2.0	1.0	8.5	6.0
2	18.0	16.5	11.0	9.5	7.0	5.5	2.0	2.0	2.5	1.5	6.0	5.5
3	16.5	16.0	11.0	10.5	5.5	4.5	4.0	2.0	3.0	2.5	6.5	6.0
4	16.0	15.0	11.0	9.5	5.0	4.0	4.5	3.5	4.0	3.0	8.5	6.5
5	17.0	15.5	9.5	8.5	5.0	4.5	4.5	4.5	4.0	4.0	8.5	8.0
6	17.0	17.0	9.0	7.0	6.5	5.0	5.0	5.0	4.0	3.0	8.5	8.0
7	18.0	17.0	9.0	8.0	6.0	6.0	4.5	4.5	3.0	2.0	8.0	8.0
8	18.0	17.0	8.5	7.0	5.5	5.5	4.0	4.0	3.5	1.5	8.0	8.0
9	17.0	17.0	7.5	6.0	6.0	5.5	4.0	3.5	4.5	3.5	8.0	7.5
10	17.0	16.0	11.0	7.5	6.5	6.0	3.5	2.5	4.5	3.5	8.5	8.0
11	16.0	16.0	10.5	9.0	7.5	6.5	2.5	2.5	5.0	4.0	9.5	8.5
12	16.0	15.5	9.0	8.0	8.0	7.5	3.5	2.5	5.5	5.0	13.0	10.0
13	15.5	15.5	8.0	7.5	7.5	7.0	4.0	3.0	6.5	5.5	13.0	12.5
14	15.5	14.0	8.0	7.0	7.5	7.0	4.5	3.5	7.0	5.5	13.0	12.5
15	15.0	13.0	7.5	7.0	8.0	7.5	4.5	3.0	6.5	6.0	13.5	12.5
16	16.0	15.0	7.5	7.0	8.0	7.0	3.0	1.0	6.0	5.5	14.0	13.0
17	16.0	15.0	8.0	7.0	7.5	7.0	3.0	1.0	5.5	4.5	13.0	11.5
18	15.0	14.0	8.5	7.5	7.5	7.0	---	---	6.0	5.0	11.5	11.0
19	14.5	13.0	9.5	8.0	8.0	7.5	---	---	7.0	5.5	11.0	10.0
20	15.0	14.0	9.5	9.0	7.5	6.0	---	---	7.0	6.5	12.0	10.0
21	14.0	13.0	9.5	9.0	6.0	5.0	---	---	7.0	5.5	12.0	11.0
22	14.0	12.0	9.0	7.0	5.0	4.5	1.5	1.0	7.5	5.5	10.5	9.5
23	14.5	14.0	7.0	6.0	6.0	5.0	1.5	1.0	8.0	7.0	10.0	9.0
24	14.5	14.5	7.5	6.0	6.0	4.0	1.5	1.0	9.5	8.0	9.0	9.0
25	14.5	14.0	8.0	6.5	4.0	3.5	2.5	1.5	9.5	9.5	10.0	9.0
26	14.0	12.5	8.0	7.5	4.0	4.0	3.0	2.0	10.0	9.5	11.5	9.5
27	12.5	11.5	9.0	8.0	5.5	4.0	4.0	3.0	10.5	9.5	13.0	11.5
28	11.5	11.0	10.5	9.0	5.5	5.0	4.5	3.5	10.0	8.5	14.0	13.5
29	11.0	10.5	10.0	8.5	6.0	5.0	3.5	2.0	---	---	15.0	14.0
30	11.0	11.0	9.0	7.5	6.0	5.0	2.0	1.5	---	---	16.0	14.0
31	11.0	10.5	---	---	4.5	3.0	2.0	1.5	---	---	16.0	15.5
MONTH	18.0	10.5	11.0	6.0	8.0	3.0	5.0	1.0	10.5	1.0	16.0	5.5

02387500 OOSTANAULA RIVER AT RESACA, GA.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.0	16.0	15.0	14.0	23.5	21.5	26.5	23.5	26.5	23.5	26.0	25.0
2	16.5	16.0	17.0	15.0	21.0	20.5	26.5	24.5	25.5	24.0	26.0	25.0
3	16.5	16.5	17.0	15.5	21.0	20.0	26.0	24.0	25.5	24.0	26.0	24.5
4	17.0	16.5	15.5	14.5	20.0	18.0	26.0	23.5	26.0	23.5	25.5	24.5
5	17.0	15.5	15.5	15.0	21.5	20.0	24.5	23.0	27.0	24.5	26.0	25.0
6	15.5	14.5	15.5	14.5	22.5	21.5	24.0	22.0	27.0	24.5	26.0	25.0
7	15.0	14.5	16.0	15.0	22.5	21.5	26.5	23.5	27.0	24.5	25.5	24.5
8	15.5	14.5	17.5	16.0	21.5	20.0	27.0	25.0	26.0	24.5	24.5	24.0
9	15.5	14.5	18.5	17.5	22.5	20.0	27.0	25.0	26.0	24.0	24.0	23.5
10	15.0	14.0	18.0	15.0	22.0	20.0	26.5	24.5	25.0	23.0	24.0	23.5
11	15.0	14.0	15.0	14.0	22.0	20.0	26.5	25.0	25.0	23.5	24.0	23.5
12	14.5	13.5	15.0	14.0	23.5	21.0	25.5	23.5	26.0	24.0	23.5	23.0
13	14.5	13.5	17.0	15.0	24.0	21.5	25.5	24.0	26.0	24.5	23.5	23.0
14	14.5	13.5	16.5	15.0	24.0	23.0	26.5	24.0	25.5	24.0	23.5	23.0
15	14.5	14.0	17.5	16.0	23.0	22.5	26.0	24.5	25.0	23.5	23.0	23.0
16	14.5	14.0	18.0	17.0	23.0	22.5	26.0	24.5	25.5	24.5	23.0	23.0
17	14.0	13.5	18.5	16.0	22.5	22.0	26.0	24.5	24.5	24.0	23.5	23.0
18	15.0	13.5	17.5	16.0	23.0	21.5	26.0	24.0	25.0	24.5	23.5	23.5
19	15.0	14.0	17.0	16.5	24.0	22.0	25.5	24.0	25.5	25.0	23.5	23.5
20	14.5	13.5	18.0	17.0	25.0	23.0	26.5	23.5	25.0	24.5	23.5	23.0
21	14.5	13.5	19.0	17.5	24.5	23.0	26.5	24.5	24.5	24.0	23.0	22.5
22	14.5	13.5	20.5	19.0	23.5	22.5	26.0	25.0	25.5	24.0	22.5	22.0
23	15.0	14.0	21.5	20.5	23.5	22.0	26.0	24.5	25.0	24.0	22.5	22.0
24	15.5	15.0	21.5	20.5	23.5	21.5	25.5	24.5	25.5	24.0	23.0	22.5
25	15.0	14.5	21.0	20.5	26.0	23.5	25.0	24.5	25.5	24.5	23.0	22.5
26	14.5	12.5	21.0	20.0	25.0	24.0	26.0	23.5	25.5	25.0	23.0	22.5
27	12.5	12.0	21.0	20.5	25.5	23.0	24.0	23.5	26.0	24.5	23.0	22.5
28	13.0	12.0	22.0	21.0	23.5	22.0	24.5	23.5	26.0	24.5	22.5	22.0
29	13.0	12.5	23.0	21.0	24.0	23.0	23.5	22.5	26.5	25.0	22.0	21.0
30	14.0	13.0	24.0	22.0	23.5	22.5	25.0	22.5	26.0	25.0	21.5	21.0
31	---	---	24.5	23.0	---	---	26.0	23.0	26.0	25.0	---	---
MONTH	17.0	12.0	24.5	14.0	26.0	18.0	27.0	22.0	27.0	23.0	26.0	21.0

MOBILE RIVER BASIN

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02387502 OOSTANAULA RIVER BELOW RESACA, GA.

LOCATION.--Lat 34°34'17", long 84°56'49", Gordon County, Hydrologic Unit 03150103, at bridge on Interstate Highway 75, 0.4 mi (0.6 km) west of Resaca, and 0.4 mi (0.6 km) upstream from Camp Creek.

DRAINAGE AREA.--1,610 mi² (4,170 km²), approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Carters Lake and Carters re-regulation reservoir. (See "Lakes and Reservoirs in Mobile River Basin", stations 02381400, 02382400.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	AIR TEMPERATURE (DEG C)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
NOV 02...	1205	1560	7.2	13.0	9.5	9.7
DEC 06...	1230	880	7.5	5.5	4.0	11.6
JAN 11...	1315	10700	7.2	-5.0	2.5	12.2
FEB 14...	1200	1190	7.7	12.5	5.0	11.0
MAR 21...	1455	2980	7.7	9.0	11.5	9.0
APR 26...	1200	5360	7.2	14.0	12.5	9.6
JUN 06...	1215	1280	7.2	27.0	21.0	8.2
JUL 18...	1025	598	7.5	30.5	23.0	7.2
AUG 29...	1230	494	7.3	30.5	25.0	5.7
SEP 26...	1135	1030	7.4	25.0	23.0	6.5

DATE	SPF-CIFIC CONDUCTANCE (MICHOHMS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (EC BROTH) (MPN)	HARDNESS (CA+MG) (MG/L)	ALKALINITY AS CaCO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 02...	108	40	15	1.4	330	43	39	.17	<.02	.17	4.0
DEC 06...	118	30	6	.8	750	47	45	.23	.02	.15	12
JAN 11...	58	65	56	1.3	930	23	19	.18	.02	.15	5.0
FEB 14...	141	10	12	.9	430	60	57	.27	.08	.14	5.0
MAR 21...	99	20	34	.9	430	43	39	.28	.02	.09	2.0
APR 26...	62	30	25	.4	430	24	20	.18	<.02	.06	2.0
JUN 06...	90	20	18	1.0	230	34	35	.27	<.02	.11	<1.0
JUL 18...	119	--	12	.9	90	44	--	.27	<.02	.30	4.0
AUG 29...	127	--	15	.7	230	44	--	.43	.05	.52	5.0
SEP 26...	127	--	19	1.1	930	48	--	.25	.05	.30	4.0

MOBILE RIVER BASIN

02387520 OOSTANAULA RIVER AT CALHOUN, GA.

LOCATION.--Lat 34°31'08", long 84°57'16", Gordon County, Hydrologic Unit 03150103, on left bank at city of Calhoun water works intake at Calhoun, and 0.6 mi (1.0 km) upstream from bridge on State Highway 143.

DRAINAGE AREA.--1,620 mi² (4,200 km²), approximately.

PERIOD OF RECORD.--July 1974 to June 1977 (discontinued).

REMARKS.--Flow regulated by Carters Lake and re-regulation dam. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400, 02382400). Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV 02...	1030	1480	7.6	11.0	9.0	9.2
DEC 06...	1100	905	7.5	7.0	4.5	11.8
JAN 11...	1200	10600	7.2	-7.0	2.5	12.2
FEB 14...	1130	1150	7.7	9.5	5.0	11.8
MAR 21...	1315	3030	7.5	9.5	12.0	9.0
APR 26...	1050	5740	7.2	13.0	13.0	9.5
MAY 16...	1005	1570	7.0	26.5	16.5	7.9
JUN 06...	1030	1380	7.0	27.0	21.0	8.4

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	CON- FIRMED COLI- FORM (MPN)	HARD- NESS (CA, MG) (MG/L)
NOV 02...	117	40	18	1.2	930	15000	48
DEC 06...	115	30	7	.1	430	23000	46
JAN 11...	59	65	76	1.1	2300	8400	24
FEB 14...	144	10	12	.8	36	4300	60
MAR 21...	98	25	33	1.0	4300	43000	43
APR 26...	84	20	30	.4	230	9300	32
MAY 16...	90	10	15	.6	36	7500	38
JUN 06...	86	25	17	.9	90	2300	32

02387520 OOSTANAULA RIVER AT CALHOUN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 02...	45	13	.18	<.02	.19	1000	50	4.0
DEC 06...	42	7	.19	<.02	.18	550	<50	12
JAN 11...	20	90	.18	.02	.16	1500	160	8.0
FEB 14...	56	29	.27	.10	.15	410	50	6.0
MAR 21...	40	50	.28	.02	.09	920	100	2.0
APR 26...	20	41	.17	<.02	.06	1100	120	2.0
MAY 16...	36	27	.29	<.02	.08	710	50	2.0
JUN 06...	33	24	.29	<.02	.11	550	50	4.0

02388000 WEST ARMUCHEE CREEK NEAR SUBLIGNA, GA.

LOCATION.--Lat 34°34'04", long 85°09'16", Chattooga County, Hydrologic Unit 03150103, on left bank 500 ft (152 m) downstream from bridge on county road, 1 mi (1.6 km) upstream from Ruff Creek, and 2 mi (3.2 km) east of Subligna.

DRAINAGE AREA.--34.5 mi² (89.4 km²).

PERIOD OF RECORD.--April 1939 to June 1940, May 1960 to current year. Monthly discharge only for some periods, published in WSP 1304.

GAGE.--Water-stage recorder. Altitude of gage is 750 ft (229 m), from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--17 years, 65.7 ft³/s (1.86 m³/s), 25.86 in/yr (656.8 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,670 ft³/s (274 m³/s) Mar. 4, 1966, gage height, 11.33 ft (3.453 m), from rating curve extended above 3,000 ft³/s (85.0 m³/s) on basis of contracted-opening measurement of peak flow; minimum, 3.1 ft³/s (0.088 m³/s) Aug. 29, 1939.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 29, 1951 reached a stage of 12.1 ft (3.69 m), from floodmarks; discharge, 12,400 ft³/s (351 m³/s), as explained above.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,100 ft³/s (31.2 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)	
Mar. 12	2000	*5780	164	10.03	3.057	Apr. 3	0530	4360	123	9.42	2.871
Mar. 30	0930	5380	152	9.91	3.021	Apr. 4	2345	2660	75.3	8.28	2.524

Minimum daily discharge, 5.5 ft³/s (0.144 m³/s) Sept. 3, 4.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	11	18	44	27	94	246	44	15	9.8	7.1	5.7
2	7.4	10	15	39	26	77	172	41	14	9.5	8.1	5.7
3	7.5	9.6	13	39	26	68	1550	41	14	9.1	7.0	5.5
4	7.5	9.3	12	38	26	130	790	40	13	8.9	6.2	5.5
5	7.5	9.1	12	39	25	125	1120	38	13	8.5	6.0	6.2
6	7.5	8.9	15	43	24	341	306	34	13	7.9	6.0	7.0
7	8.1	8.9	37	93	22	227	198	32	12	7.6	6.0	42
8	8.4	8.9	28	75	22	145	150	31	12	7.5	6.1	17
9	9.1	9.1	21	216	21	110	114	28	12	7.2	13	9.7
10	8.2	9.2	18	314	21	91	96	26	11	6.8	9.9	8.6
11	7.9	9.1	17	134	20	81	81	24	11	6.5	8.5	8.0
12	7.9	9.6	58	94	21	1590	72	23	11	6.4	7.7	7.6
13	7.8	9.7	63	77	23	1090	67	22	11	6.2	7.0	12
14	7.7	9.9	39	100	21	285	60	21	10	6.0	6.4	38
15	7.7	10	53	103	21	185	54	21	10	6.0	6.0	17
16	7.7	11	49	84	19	139	49	20	10	6.0	6.1	183
17	7.7	9.9	37	68	19	109	43	19	10	6.0	26	45
18	8.1	9.7	31	62	19	96	40	18	11	6.0	13	30
19	7.8	9.5	27	51	18	81	37	18	10	6.0	9.2	25
20	8.2	9.5	48	47	18	88	35	17	11	6.0	8.8	23
21	8.0	9.5	56	42	17	92	33	17	11	6.0	8.2	20
22	7.8	9.2	41	38	17	164	53	24	10	6.3	7.8	18
23	7.9	9.2	35	34	18	123	264	22	11	6.0	7.3	16
24	8.3	8.6	30	35	304	98	218	22	11	5.7	6.8	15
25	11	8.6	43	35	139	84	116	23	9.9	9.4	6.3	15
26	10	8.9	91	34	94	72	84	21	10	13	6.1	31
27	9.5	11	66	35	135	65	70	20	9.7	8.6	5.9	39
28	9.0	30	52	34	119	67	59	19	9.4	7.5	5.7	29
29	8.8	46	41	31	---	168	52	19	9.1	6.3	5.7	25
30	11	23	35	29	---	2780	48	17	9.3	6.0	5.7	31
31	16	---	50	29	---	538	---	16	---	6.0	5.7	---
TOTAL	264.4	355.9	1151	2136	1282	9403	6277	778	334.4	224.7	245.3	740.5
MEAN	8.53	11.9	37.1	68.9	45.8	303	209	25.1	11.1	7.25	7.91	24.7
MAX	16	46	91	314	304	2780	1550	44	15	13	26	183
MIN	7.4	8.6	12	29	17	65	33	16	9.1	5.7	5.7	5.5
CFSM	.25	.35	1.08	2.00	1.33	8.78	6.06	.73	.32	.21	.23	.72
IN.	.29	.38	1.24	2.30	1.38	10.14	6.77	.84	.36	.24	.26	.80

CAL YR 1976 TOTAL 22181.4 MEAN 60.6 MAX 983 MIN 7.0 CFSM 1.76 IN 23.92
WTR YR 1977 TOTAL 23192.2 MEAN 63.5 MAX 2780 MIN 5.5 CFSM 1.84 IN 25.01

MOBILE RIVER BASIN

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02388300 HEATH CREEK NEAR ROME, GA.

LOCATION.--Lat 34°21'57", long 85°16'17", Floyd County, Hydrologic Unit 03150103, on upstream left wingwall of bridge on county road, 4 mi (6.4 km) upstream from Little Armuchee Creek, and 9.5 mi (15.3 km) northwest of Rome.

DRAINAGE AREA.--14.3 mi² (37.0 km²).

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

GAGE.--Water-stage recorder. Altitude of gage is 650 ft (198 m), from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--9 years, 26.0 ft³/s (0.736 m³/s), 24.69 in/yr (627.1 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 9.82 ft (2.993 m) Apr. 4, 1977 (discharge not determined); minimum daily discharge, 1.2 ft³/s (0.034 m³/s) Aug. 31 to Sept. 6, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above 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)
Mar. 12	2130	not determined	8.45 2.576	Apr. 4	2200	not determined	9.82 2.993
Mar. 30	0500	556 15.7	6.03 1.838				

Minimum daily discharge, 1.2 ft³/s (0.034 m³/s) Aug. 31 to Sept. 6.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	2.6	4.1	12	12	49	102	17	3.8	1.7	1.7	1.2
2	2.1	2.3	3.6	9.6	11	37	73	15	3.5	1.7	1.6	1.2
3	2.1	2.3	3.3	12	11	31	194	17	3.4	1.6	1.6	1.2
4	2.1	2.3	3.0	14	11	70	420	14	3.2	1.6	1.6	1.2
5	2.1	2.3	2.9	14	11	59	571	11	3.0	1.6	1.5	1.2
6	2.1	2.3	3.6	17	9.4	162	163	9.6	2.9	1.6	1.5	1.2
7	2.3	2.3	9.0	46	8.8	111	101	14	3.0	1.5	1.5	8.3
8	2.2	2.3	6.3	34	8.4	73	73	12	2.9	1.5	1.5	3.5
9	2.4	2.3	4.8	111	8.0	54	55	8.8	3.0	1.5	1.6	1.9
10	2.2	2.4	4.3	146	7.9	42	42	7.5	2.9	1.5	1.6	1.7
11	2.2	2.5	4.3	76	7.8	36	34	7.0	2.9	1.5	1.5	1.5
12	2.2	3.5	45	53	8.6	340	27	6.3	2.9	1.6	1.6	1.4
13	2.2	2.7	35	40	12	451	22	5.9	2.9	1.7	1.5	1.7
14	2.2	2.7	17	68	9.5	138	19	5.7	3.5	1.7	1.5	3.2
15	2.1	3.6	32	67	8.6	91	16	5.4	3.5	1.6	1.5	3.7
16	2.1	3.2	23	51	8.0	67	14	5.1	3.5	1.6	1.5	36
17	2.2	2.8	15	37	7.6	51	12	4.9	3.4	2.0	1.6	7.4
18	2.2	2.7	11	32	7.7	42	10	4.7	4.6	2.1	1.8	4.6
19	2.1	2.6	8.7	26	7.5	32	15	4.6	4.4	1.8	1.5	4.8
20	2.2	2.7	42	22	7.3	43	15	4.4	3.6	1.8	1.5	5.5
21	2.2	2.6	38	18	7.1	72	10	4.2	3.3	1.7	1.4	4.0
22	2.1	2.5	24	16	7.0	150	31	5.3	3.2	1.6	1.5	3.3
23	2.1	2.4	18	14	7.2	81	128	5.5	3.9	2.2	3.4	2.8
24	2.2	2.4	13	17	132	59	136	5.4	3.4	1.8	1.8	2.5
25	3.4	2.5	27	19	69	45	72	5.3	3.1	2.2	1.6	3.6
26	2.9	2.7	52	18	46	35	48	5.2	2.8	2.1	1.5	14
27	2.2	3.8	34	17	86	29	35	5.1	2.9	1.7	1.4	7.6
28	2.2	11	26	17	66	29	26	5.0	2.7	1.6	1.4	6.2
29	2.2	13	19	14	---	130	21	4.7	2.5	1.8	1.4	5.0
30	3.1	5.2	15	12	---	459	19	4.3	2.0	1.8	1.3	5.6
31	3.5	---	17	13	---	182	---	4.0	---	1.9	1.2	---
TOTAL	71.6	100.5	560.9	1062.6	603.4	3250	2504	233.9	96.6	53.6	49.1	147.0
MEAN	2.31	3.35	18.1	34.3	21.6	105	83.5	7.55	3.22	1.73	1.58	4.90
MAX	3.5	13	52	146	132	459	571	17	4.6	2.2	3.4	36
MIN	2.1	2.3	2.9	9.6	7.0	29	10	4.0	2.0	1.5	1.2	1.2
CFSM	.16	.23	1.27	2.40	1.51	7.34	5.84	.53	.23	.12	.11	.34
IN.	.19	.26	1.46	2.76	1.57	8.45	6.51	.61	.25	.14	.13	.38
CAL YR 1976	TOTAL	9236.0	MEAN 25.2	MAX 388	MIN 1.8	CFSM 1.76	IN 24.02					
WTR YR 1977	TOTAL	8733.2	MEAN 23.9	MAX 571	MIN 1.2	CFSM 1.67	IN 22.72					

02388500 OOSTANLA RIVER NEAR ROME, GA.

LOCATION.--Lat 34°18'02", long 85°08'30", Floyd County, Hydrologic Unit 03150103, on left bank 1.2 mi (1.9 km) upstream from Dry Creek, 4.5 mi (7.2 km) north of Rome, 4.5 mi (7.2 km) upstream from confluence with Etowah River, and 6.5 mi (10.5 km) downstream from Armuchee Creek.

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

PERIOD OF RECORD.--October 1939 to current year, in reports of Geological Survey. Gage-height records collected at site 4.2 mi (6.8 km) downstream since 1890 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 561.70 ft (171.21 m) above mean sea level. Oct. 1, 1939 to Dec. 7, 1950, water-stage recorder at site 3.2 mi (5.1 km) downstream at same datum. Since Oct. 1, 1939, auxiliary water-stage recorder at Fifth Avenue Bridge, 4.2 mi (6.8 km) downstream. Nonrecording gage at site of auxiliary gage used as base gage for records published as Coosa River at Rome, Jan. 1, 1897 to Dec. 31, 1903.

REMARKS.--Records good except those for period of no gage-height record, Aug. 2 to Sept. 5, which are poor. Flow regulated by Carters Lake and re-regulation dam since 1975. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400.) Records of chemical analyses for the water years 1968-74, are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--38 years, 3,591 ft³/s (102 m³/s), 23.00 in/yr (584.2 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,000 ft³/s (1,330 m³/s) Jan. 23, 1947; maximum gage height, 35.13 ft (10.708 m) Jan. 22, 1947; minimum daily discharge, 408 ft³/s (11.6 m³/s) Oct. 25, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1834, 40.3 ft (12.28 m) in April 1886, at site of present auxiliary gage, from information by Georgia Department of Archives.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 37,300 ft³/s (1,056 m³/s) Apr. 5; maximum gage height, 35.22 ft (10.735 m) Apr. 5; minimum daily discharge, 560 ft³/s (15.9 m³/s) Sept. 4.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	896	1060	4490	3860	1630	6750	25400	5050	1320	1540	880	620
2	906	1320	3630	3800	1690	6570	24600	3430	1590	986	930	600
3	785	1500	2110	3160	1800	5770	24400	2520	1690	974	980	580
4	749	1280	1450	3180	1880	5150	26100	3110	2470	1080	880	560
5	697	1040	1250	3180	1900	5450	32600	3880	3140	1030	680	640
6	815	920	1180	2890	1730	7260	34000	3860	1980	1430	640	730
7	1030	879	1620	3570	1370	9760	32400	4550	1450	1840	650	812
8	1220	826	2840	5360	1290	9930	30800	4340	1350	993	660	1640
9	1280	767	3620	6380	2140	8350	28700	3160	1250	771	750	3080
10	1120	977	2920	8200	3320	5740	26500	2180	1200	779	1000	4920
11	1220	1740	2170	10200	2290	4960	22000	2570	1150	803	1400	4410
12	1210	1120	2630	11400	1420	5820	13800	2740	1100	829	1700	1850
13	1070	810	4090	8900	1430	20400	8470	2880	1100	1140	1300	1130
14	901	824	4610	6560	1430	23900	7160	2880	1010	1020	1200	1120
15	807	797	4160	6510	1620	21100	6560	2430	1020	873	1100	2880
16	706	939	4300	6270	1510	19600	6170	1880	1100	822	1000	3710
17	777	911	5010	4540	1420	18500	6040	1800	1160	813	1400	3980
18	877	907	3530	4230	1610	15500	5930	2400	1110	788	1800	4420
19	866	868	2560	4440	1600	9410	5680	2900	1080	777	1600	4500
20	1020	976	2700	3850	1340	7910	5280	3150	1110	998	2000	3300
21	1150	770	3400	3780	1260	5280	5160	3220	1140	879	1700	1950
22	833	725	6200	2950	1210	7940	5070	2480	1220	819	1000	1540
23	1380	928	5300	2070	1260	9280	6800	2010	1270	719	900	1200
24	1540	808	4500	1940	3130	8470	7280	1670	1550	660	1100	1120
25	1370	812	5000	2030	6470	7650	7350	2000	1900	659	1000	1100
26	1290	774	5150	2150	7510	7540	6450	2020	1270	731	900	1230
27	1330	795	4500	2250	6530	5390	5580	1870	1020	1070	800	1410
28	1420	938	4590	2250	6290	2940	5010	2100	1160	1390	720	3100
29	1300	1520	3790	2110	---	3840	4770	2130	1790	1010	700	3020
30	1210	3040	3310	2010	---	10400	5370	1590	1400	882	660	2050
31	1020	---	3400	1810	---	21000	---	1380	---	890	640	---
TOTAL	32795	31571	110010	135830	68080	307560	431430	84180	42100	29995	32670	63212
MEAN	1058	1052	3549	4382	2431	9921	14380	2715	1403	968	1054	2107
MAX	1540	3040	6200	11400	7510	23900	34000	5050	3140	1840	2000	4930
MIN	697	725	1180	1810	1210	2940	4770	1380	1010	659	640	560

CAL YR 1976 TOTAL 1519491 MEAN 4152 MAX 22300 MIN 595 MEAN† 4150 CFSM† 1.96 IN† 26.65
WTR YR 1977 TOTAL 1369433 MEAN 3752 MAX 34000 MIN 560 MEAN† 3781 CFSM† 1.78 IN† 24.21

† Adjusted for change in contents in Carters Lake and re-regulation pool.

02388500 OOSTANAULA RIVER NEAR ROME, GA.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.40	5.75	12.18	10.28	6.80	12.89	29.55	11.47	6.55	6.67	---	---
2	5.45	6.58	9.63	9.75	6.90	12.70	27.39	10.06	7.17	5.61	---	---
3	5.12	6.57	7.62	8.93	7.09	11.89	27.29	11.20	6.91	5.36	---	---
4	4.96	6.30	6.50	9.48	7.23	11.29	29.58	12.05	8.49	5.64	---	---
5	4.67	5.75	5.88	9.13	7.22	11.59	34.14	12.96	9.02	5.52	---	---
6	5.12	5.41	5.75	8.76	6.86	13.18	34.56	12.95	7.28	6.46	---	---
7	5.64	5.13	7.07	9.98	6.35	15.59	32.85	12.39	---	7.45	---	5.26
8	6.15	5.00	9.03	11.94	6.30	15.38	31.57	10.56	---	5.66	---	6.75
9	5.46	---	10.95	12.63	7.90	14.01	30.32	9.55	---	5.12	---	8.93
10	5.67	---	9.09	17.00	9.26	11.59	28.65	10.13	---	4.87	---	11.21
11	6.89	---	8.02	19.16	7.78	10.73	26.56	10.68	---	4.93	---	10.59
12	5.68	---	8.12	18.45	6.33	11.47	22.73	10.93	---	5.22	---	7.03
13	5.02	---	10.04	15.68	6.34	24.14	18.53	11.25	---	5.91	---	5.90
14	4.98	---	11.09	14.69	6.56	26.80	16.95	10.35	5.60	6.01	---	5.91
15	5.19	---	10.50	14.47	6.88	24.38	16.23	8.02	5.62	5.32	---	8.67
16	6.12	---	10.78	12.77	6.54	22.77	15.62	7.15	5.82	5.19	---	9.84
17	4.90	5.43	11.35	11.31	6.40	22.06	15.34	7.31	5.86	4.95	---	10.18
18	5.14	5.72	9.63	11.69	6.72	20.53	15.14	8.23	5.83	4.89	---	10.63
19	5.25	6.07	7.99	11.37	6.66	15.90	14.84	8.87	5.64	5.09	---	10.73
20	5.60	6.23	8.19	11.42	6.19	14.23	14.50	9.42	5.71	5.62	---	9.35
21	5.88	4.79	---	10.18	6.06	12.70	14.36	9.27	5.96	5.32	---	7.36
22	5.32	5.32	---	8.96	5.98	16.30	14.33	8.09	6.15	5.90	---	6.67
23	6.30	5.91	---	7.33	6.06	17.06	15.51	7.34	6.45	4.92	---	6.61
24	6.54	5.25	---	7.30	9.22	15.96	16.67	7.07	6.70	4.59	---	5.90
25	6.45	5.24	---	7.52	13.19	14.93	16.67	7.52	7.59	4.58	---	5.70
26	6.44	5.16	---	7.75	13.57	14.27	15.72	7.54	6.02	4.90	---	6.01
27	6.28	5.22	---	7.87	12.66	11.10	14.86	7.27	5.48	5.65	---	6.40
28	6.44	5.43	11.18	7.87	12.60	8.98	14.30	7.63	6.32	6.33	---	9.06
29	6.21	6.75	10.23	7.57	---	12.29	14.04	7.55	7.09	5.55	---	8.87
30	6.01	10.18	9.62	7.28	---	25.30	13.25	6.64	6.42	5.27	---	7.45
31	5.52	---	9.76	7.00	---	30.62	---	6.38	---	5.17	---	---
MEAN	5.67	---	---	10.82	7.77	16.21	21.07	9.28	---	5.47	---	---
MAX	6.89	---	---	19.16	13.57	30.62	34.56	12.96	---	7.45	---	---
MIN	4.67	---	---	7.00	5.98	8.98	13.25	6.38	---	4.58	---	---

MOBILE RIVER BASIN

02388520 OOSTANAULA RIVER AT ROME, GA.

LOCATION.--Lat 34°16'13", long 85°10'24", Floyd County, Hydrologic Unit 03150103, at Southern Railway bridge at pumping station at city of Rome water works, 1.2 mi (1.9 km) upstream from confluence with Etowah River.

DRAINAGE AREA.--2,150 mi² (5,570 km²), approximately.

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

REMARKS.--Flow regulated by Carters Lake and re-regulation dam. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400, 02382400). Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV						
01...	1500	1190	7.4	14.0	10.5	8.4
DEC						
08...	1345	3280	7.6	3.0	5.0	10.4
JAN						
13...	1000	10100	7.3	.0	2.0	12.4
FEB						
16...	0900	1590	7.6	-2.0	5.0	11.9
MAR						
23...	1045	9100	7.4	9.5	10.0	9.8
APR						
25...	1200	7370	7.3	16.5	15.0	7.9
MAY						
17...	1015	1790	7.2	27.0	18.5	8.2
JUN						
08...	0745	900	7.5	14.0	20.5	6.6
JUL						
20...	1030	945	7.5	31.0	26.0	7.2
AUG						
31...	1015	520	7.3	34.5	27.0	5.5
SEP						
27...	0730	994	7.3	23.0	22.0	6.3

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	CON- FIRMED COLI- FORM (MPN)	HARD- NESS (CA,MG) (MG/L)
NOV							
01...	127	40	6	.6	91	--	50
DEC							
08...	134	40	35	1.7	1500	93000	58
JAN							
13...	72	35	32	1.3	390	2900	31
FEB							
16...	154	20	11	.9	230	9300	66
MAR							
23...	86	50	56	1.2	9300	43000	35
APR							
25...	84	30	32	--	1500	230000	32
MAY							
17...	110	10	12	.6	430	1500	44
JUN							
08...	118	10	15	.7	1400	3300	40
JUL							
20...	151	--	15	.9	90	2100	51
AUG							
31...	149	--	18	.6	210	4300	53
SEP							
27...	140	--	22	.5	2300	15000	42

02388520 OOSTANAULA RIVER AT ROME, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	ALKA- LITY AS CACO3 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV								
01...	45	<1	.18	.04	.27	340	60	11
DEC								
08...	50	--	.34	.03	.22	1400	100	6.0
JAN								
13...	27	43	.23	.02	.12	1000	90	4.0
FEB								
16...	61	7	.35	.05	.15	510	50	<1.0
MAR								
23...	30	56	.28	.03	.11	1200	100	5.0
APR								
25...	30	50	.25	<.02	.09	1300	100	4.0
MAY								
17...	44	23	.40	<.02	.09	730	50	2.0
JUN								
08...	43	17	.40	<.02	.12	430	60	2.0
JUL								
20...	--	17	.35	.02	.26	--	--	7.0
AUG								
31...	--	19	.50	.03	.38	--	--	4.0
SEP								
27...	--	22	.34	.05	.22	--	--	5.0

MOBILE RIVER BASIN

02389000 ETOWAH RIVER NEAR DAWSONVILLE, GA.

LOCATION.--Lat 34°22'57", long 84°03'21", Dawson County, Hydrologic Unit 03150104, on left bank 0.4 mi (0.6 km) upstream from Palmer Creek, 0.5 mi (0.8 km) upstream from bridge on State Highway 53, 1.2 mi (1.9 km) downstream from Russell Creek, 4 mi (6.4 km) southeast of Dawsonville, and 7.5 mi (12.1 km) upstream from Shoal Creek.

DRAINAGE AREA.--103 mi² (267 km²).

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)				
SEP 01...	0800	91	23	5.9	23.5	8.4				
DATE	COLOR (PLATINUM-COBALT UNITS)	HARDNESS (CA, MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNESIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)
SEP 01...	15	6	0	1.3	.6	1.5	.8	12	0	10
DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	DIS-SOLVED SILICA (SiO2) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)
SEP 01...	.7	.9	.0	9.5	22	22	5.41	.06	.27	.00
DATE	DIS-SOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITROGEN (N) (MG/L)	DIS-SOLVED AMMONIA NITROGEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DIS-SOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	SUSPENDED KJEL. NITROGEN (N) (MG/L)
SEP 01...	.00	.06	.06	.03	.03	.04	.09	.03	.12	.06
DATE	DIS-SOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOSPHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DIS-SOLVED ALUMINUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)
SEP 01...	.06	.18	.80	.01	.01	.00	.00	.00	20	0
DATE	DIS-SOLVED CADMIUM (CD) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MANGANESE (MN) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELENIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
SEP 01...	0	0	2	110	12	20	.0	0	0	6.5

02392000 ETOWAH RIVER AT CANTON, GA.

LOCATION.--Lat 34°14'23", long 84°29'47", Cherokee County, Hydrologic Unit 03150104, on left bank 100 ft (30 m) downstream from bridge on State Highway 5 spur and 140 at Canton, 0.8 mi (1.3 km) upstream from Canton Creek, and 1.8 mi (2.9 km) downstream from Hickory Log Creek.

DRAINAGE AREA.--605 mi² (1,570 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1892 to December 1905 (prior to 1896, gage heights only), October 1936 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage heights collected at same site since 1892 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1906: 1946(M).

GAGE.--Water-stage recorder. Datum of gage is 844.55 ft (257.42 m) above mean sea level. March 1892 to December 1905, nonrecording gage at site 100 ft (30 m) upstream at datum 2.0 ft (0.61 m) higher. Mar. 16, 1937 to Jan. 17, 1939, nonrecording gage at site 100 ft (30 m) upstream at present datum. Water-stage recorder at Allatoona Reservoir is used as an auxiliary gage for this station.

REMARKS.--Records good.

AVERAGE DISCHARGE.--50 years (1896-1905, 1936-77), 1,239 ft³/s (35.1 m³/s), 27.81 in/yr (706.4 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,300 ft³/s (915 m³/s) Jan. 7, 1946, gage height, 26.7 ft (8.14 m); minimum, 178 ft³/s (5.04 m³/s) Sept. 29, 30, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, 36,700 ft³/s (1,040 m³/s) in January 1892, gage height, 25.0 ft (7.62 m), present datum, from National Weather Service.

Maximum stage known since at least 1892, that of Jan. 7, 1946.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,500 ft³/s (184 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)
Mar. 13	1500	6850 194	13.71 4.179	Apr. 5	1600	12100 343	19.05 5.806
Mar. 31	0100	*18500 524	23.56 7.181				

Minimum discharge, 370 ft³/s (10.5 m³/s) Sept. 4, gage height, 1.70 ft (0.518 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	645	980	943	1010	864	1300	6930	1570	988	764	496	400
2	560	691	805	886	840	1140	4480	1660	944	1110	475	388
3	532	615	734	890	844	1050	5400	1660	912	960	448	385
4	515	583	683	948	840	1080	6180	1920	884	740	448	373
5	503	559	652	935	808	1300	11000	1730	864	680	448	385
6	505	542	654	947	800	1410	7790	1530	844	652	430	394
7	607	536	1240	1250	772	1700	3770	1430	944	620	412	493
8	1010	531	1350	1310	752	1460	3020	1410	912	593	424	1040
9	1050	517	1000	1620	752	1280	2560	1330	844	572	852	869
10	941	518	845	5340	756	1180	2190	1260	824	555	772	698
11	682	531	780	2620	752	1140	2060	1240	792	537	552	612
12	599	578	1230	1730	768	1340	2040	1210	800	524	508	532
13	566	629	1600	1440	1100	5880	1980	1180	800	530	485	484
14	550	581	1220	1390	1110	3760	1940	1150	816	529	454	717
15	532	611	1420	2160	940	2320	1830	1130	800	560	445	860
16	520	619	1950	1700	872	1840	1710	1110	772	531	457	726
17	523	593	1380	1390	828	1610	1650	1070	776	540	493	998
18	520	570	1130	1200	804	1490	1610	1050	812	571	775	839
19	505	561	993	1130	800	1390	1610	1040	844	524	584	747
20	523	563	1040	1080	780	1370	1610	1040	800	496	509	736
21	550	571	1880	1040	760	1420	1510	1050	796	478	472	646
22	520	557	1390	1060	744	3090	1540	1060	728	460	454	558
23	517	538	1140	988	748	2310	1670	1120	704	454	448	526
24	529	531	1020	976	1540	1760	2180	1160	768	460	496	504
25	612	532	964	1000	1690	1560	1900	1120	712	454	679	496
26	920	538	1500	952	1220	1440	1740	1100	684	520	539	518
27	780	652	1460	968	1260	1360	1680	1260	716	565	481	538
28	620	892	1190	1070	1540	1340	1680	1210	684	484	466	526
29	559	1530	1080	1020	---	5380	1630	1180	692	490	445	500
30	550	1330	974	936	---	16600	1570	1120	832	565	424	491
31	832	---	965	880	---	16300	---	1040	---	541	416	---
TOTAL	19377	19579	35212	41866	26284	87600	88460	39140	24288	18059	15787	17979
MEAN	625	653	1136	1351	939	2826	2949	1263	810	583	509	599
MAX	1050	1530	1950	5340	1690	16600	11000	1920	988	1110	852	1040
MIN	503	517	652	880	744	1050	1510	1040	684	454	412	373
CFSM	1.03	1.08	1.88	2.23	1.55	4.67	4.87	2.09	1.34	.96	.84	.99
IN.	1.19	1.20	2.17	2.57	1.62	5.39	5.44	2.41	1.49	1.11	.97	1.11

CAL YR 1976 TOTAL 575865 MEAN 1573 MAX 17700 MIN 486 CFSM 2.60 IN 35.41
WTR YR 1977 TOTAL 433631 MEAN 1188 MAX 16600 MIN 373 CFSM 1.96 IN 26.66

MOBILE RIVER BASIN

02392000 ETOWAH RIVER AT CANTON, GA.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.55	3.55	3.46	3.62	3.26	4.34	13.32	4.87	3.42	2.86	2.12	1.80
2	2.33	2.83	3.11	3.31	3.20	3.95	10.14	5.10	3.31	3.72	2.05	1.76
3	2.24	2.64	2.93	3.32	3.21	3.73	11.51	5.09	3.23	3.35	1.96	1.75
4	2.18	2.56	2.81	3.47	3.20	3.79	12.65	5.64	3.16	2.80	1.96	1.71
5	2.14	2.48	2.73	3.44	3.12	4.36	18.20	5.26	3.11	2.65	1.96	1.75
6	2.15	2.42	2.73	3.47	3.10	4.59	15.16	4.78	3.06	2.58	1.90	1.78
7	2.45	2.40	4.21	4.22	3.03	5.36	13.07	4.54	3.31	2.50	1.84	2.11
8	3.53	2.39	4.47	4.39	2.98	4.74	13.05	4.47	3.23	2.43	1.88	3.56
9	3.68	2.34	3.60	4.97	2.98	4.31	13.24	4.28	3.06	2.37	3.06	3.12
10	3.40	2.34	3.21	11.53	2.99	4.06	13.44	4.11	3.01	2.32	2.88	2.70
11	2.75	2.39	3.05	7.12	2.98	3.94	13.38	4.04	2.93	2.26	2.30	2.48
12	2.55	2.53	4.18	5.39	3.02	4.42	13.00	3.97	2.95	2.21	2.16	2.24
13	2.45	2.67	5.11	4.70	3.81	12.32	12.53	3.89	2.95	2.23	2.08	2.08
14	2.40	2.55	4.16	4.58	3.88	9.08	12.04	3.83	2.99	2.23	1.98	2.73
15	2.34	2.63	4.61	6.28	3.45	6.58	11.53	3.78	2.95	2.33	1.95	3.10
16	2.30	2.65	5.84	5.32	3.28	5.64	11.00	3.72	2.88	2.24	1.99	2.77
17	2.31	2.58	4.55	4.57	3.17	5.11	10.44	3.63	2.89	2.27	2.11	3.45
18	2.30	2.52	3.92	4.11	3.12	4.82	9.87	3.58	2.98	2.36	2.89	3.05
19	2.25	2.49	3.58	3.92	3.11	4.57	9.33	3.56	3.06	2.21	2.40	2.82
20	2.31	2.49	3.70	3.80	3.05	4.52	8.82	3.54	2.95	2.12	2.16	2.79
21	2.40	2.52	5.70	3.70	3.00	4.64	8.20	3.58	2.84	2.06	2.04	2.56
22	2.30	2.47	4.58	3.75	2.96	7.94	7.66	3.60	2.77	2.00	1.98	2.33
23	2.29	2.41	3.95	3.57	2.97	6.55	7.47	3.75	2.71	1.98	1.96	2.22
24	2.33	2.39	3.65	3.54	4.86	5.46	7.55	3.84	2.87	2.00	2.12	2.15
25	2.58	2.39	3.51	3.61	5.29	4.99	6.90	3.75	2.73	1.98	2.65	2.12
26	3.40	2.41	4.83	3.49	4.16	4.69	6.22	3.71	2.66	2.20	2.26	2.19
27	3.05	2.73	4.74	3.52	4.24	4.50	5.69	4.10	2.74	2.35	2.07	2.26
28	2.65	3.33	4.08	3.72	4.96	4.44	5.31	3.97	2.66	2.08	2.02	2.22
29	2.48	4.93	3.79	3.64	---	10.56	5.02	3.91	2.68	2.10	1.95	2.13
30	2.45	4.42	3.54	3.44	---	22.33	4.87	3.76	3.03	2.35	1.88	2.10
31	3.18	---	3.51	3.30	---	22.13	---	3.54	---	2.27	1.84	---
MEAN	2.57	2.72	3.93	4.35	3.44	6.53	10.35	4.10	2.97	2.37	2.14	2.39
MAX	3.68	4.93	5.84	11.53	5.29	22.33	18.20	5.64	3.42	3.72	3.06	3.56
MIN	2.14	2.34	2.73	3.30	2.96	3.73	4.87	3.54	2.66	1.98	1.84	1.71

WTR YR 1977 MEAN 3.99 MAX 22.33 MIN 1.71

MOBILE RIVER BASIN

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02392000 ETOWAH RIVER AT CANTON, GA.--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: June 1971 to September 1976 (discontinued).

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 26.0°C July 24, 1972; minimum recorded, 2.5°C Dec. 26, 1975.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 25.0°C July 26, 27; minimum recorded, 2.5°C Dec. 26.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV						
01...	1015	920	7.1	8.0	8.0	10.6
DEC						
06...	0930	632	7.0	5.0	3.5	12.8
MAR						
21...	0900	1380	7.1	11.0	12.0	9.8
AUG						
04...	0845	448	6.6	23.0	21.5	7.6
29...	0825	448	7.0	23.0	23.5	7.5

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)
NOV					
01...	34	35	10	.9	430
DEC					
06...	32	30	4	.4	88
MAR					
21...	32	10	18	.7	230
AUG					
04...	37	--	14	.4	150
29...	39	--	21	.7	430

DATE	HARD- NESS (CA, MG) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV						
01...	10	10	.03	.02	.02	2.0
DEC						
06...	10	13	.11	<.02	<.02	3.0
MAR						
21...	11	12	.15	<.02	.03	<1.0
AUG						
04...	--	--	.15	<.02	.02	1.0
29...	--	--	.15	<.02	.04	1.0

MOBILE RIVER BASIN

02394000 ETOWAH RIVER AT ALLATOONA DAM, ABOVE CARTERSVILLE, GA.

LOCATION.--Lat 34°09'47", long 84°44'28", Bartow County, Hydrologic Unit 03150104, on right bank 0.8 mi (1.3 km) downstream from Allatoona Dam, 2 mi (3.2 km) upstream from Nashville, Chattanooga, & St. Louis Railway bridge, and 3 mi (4.8 km) east of Cartersville.

DRAINAGE AREA.--1,110 mi² (2,870 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1938 to current year. Prior to October 1949, published as Etowah River above Cartersville.

REVISED RECORDS.--WSP 1032: 1944.

GAGE.--Water-stage recorder. Datum of gage is 686.92 ft (209.37 m) above mean sea level (levels by Corps of Engineers). Prior to Dec. 19, 1938, nonrecording gage at same site and datum.

REMARKS.--Flow regulated by Allatoona Reservoir since December 1949. (See "Lakes and Reservoirs in Mobile River Basin," station 02393500.)

COOPERATION.--Gage-height record, 9 discharge measurements, and computation of daily discharge furnished by Corps of Engineers; records reviewed by Geological Survey.

AVERAGE DISCHARGE.--39 years, 1,884 ft³/s (53.4 m³/s), 23.05 in/yr (585.5 mm/yr), adjusted for storage since 1950.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,400 ft³/s (1,140 m³/s) Jan. 8, 1946, gage height, 20.8 ft (6.34 m), from rating curve extended above 26,000 ft³/s (736 m³/s); minimum daily, 152 ft³/s (4.30 m³/s) Oct. 15, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,600 ft³/s (272 m³/s) Nov. 29, gage height, 7.50 ft (2.288 m); minimum daily, 263 ft³/s (7.45 m³/s) April 8.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	1260	2470	1440	1280	1080	788	326	954	2120	1190	1920	1260		
2	1190	1370	1710	918	1070	783	304	6120	1040	625	1940	1220		
3	1180	1410	1740	3080	1050	788	348	6400	2000	617	1940	1440		
4	760	1530	905	2000	1080	783	1840	7990	935	622	1940	1430		
5	1200	1370	892	2000	830	761	541	8020	935	1370	2380	1410		
6	1220	965	2010	2000	860	835	315	7990	3390	1980	974	1400		
7	1220	1030	2020	2950	846	891	315	960	1210	1320	980	981		
8	781	1860	5240	885	2450	831	263	954	1210	1320	1080	1400		
9	462	1750	2860	885	856	859	304	6330	1210	618	1080	1400		
10	1020	975	2860	5810	857	856	1710	6720	1210	620	1080	1020		
11	1000	972	962	5430	855	856	5340	6760	940	1190	1080	1020		
12	944	876	530	3520	868	828	7840	6790	945	1220	1080	1320		
13	961	788	2270	6060	888	804	7920	7190	1040	2180	1090	1290		
14	949	818	1970	6040	1490	1630	7920	959	1050	1200	996	1300		
15	967	3020	2420	1730	859	1630	7890	944	1020	1200	1080	1290		
16	991	1530	1830	1730	834	2110	7980	1560	996	626	1080	1300		
17	992	2120	1810	5110	846	3410	7990	1530	1040	623	1090	1100		
18	1360	2680	846	3190	836	3260	7990	1390	972	1200	1080	1030		
19	1040	3390	882	5240	889	3690	8020	1960	609	1320	1060	1330		
20	1280	348	1980	2260	886	2020	8030	1400	1180	1200	980	1300		
21	1700	1520	2230	2270	847	4390	8050	370	1290	2940	980	1300		
22	1130	2960	1830	348	847	3180	7990	618	1880	1210	1080	2390		
23	1000	1540	1260	747	828	4750	6800	1510	1180	959	1090	1300		
24	1000	1530	2020	1200	831	4790	8210	1240	2010	964	1090	1030		
25	2160	1520	858	1190	817	4790	8190	1240	622	1070	1100	1020		
26	1360	1520	847	1200	834	315	8190	1190	622	1060	1100	1110		
27	1360	1320	2880	1170	861	304	8280	1190	2030	1060	1220	1110		
28	1360	841	2880	1170	809	2850	8330	927	1190	1060	1230	1110		
29	1460	4190	2920	326	---	3000	8270	939	1190	1060	1230	1100		
30	1030	5760	2880	326	---	370	941	1040	1190	965	1220	1090		
31	1050	---	2920	1080	---	315	---	1730	---	967	1230	---		
TOTAL	35387	53973	60702	73145	26904	57467	156437	94915	38256	35556	38500	37801		
MEAN	1142	1799	1958	2360	961	1854	5215	3062	1275	1147	1242	1260		
MAX	2160	5760	5240	6060	2450	4790	8330	8020	3390	2940	2380	2390		
MIN	462	348	530	326	809	304	263	370	609	617	974	981		
MEAN†	864	1070	1844	2440	1597	5155	4975	1948	1050	714	748	912		
CFSM†	0.78	0.96	1.66	2.20	1.44	4.64	4.48	1.75	0.95	0.64	0.67	0.82		
IN†	0.90	1.07	1.91	2.54	1.50	5.35	5.00	2.02	1.06	0.74	0.77	0.92		
CAL YR 1976	TOTAL	910754	MEAN	2488	MAX	8510	MIN	235	MEAN†	2506	CFSM†	2.26	IN†	30.73
WTR YR 1977	TOTAL	709043	MEAN	1943	MAX	8330	MIN	263	MEAN†	1945	CFSM†	1.75	IN†	23.79

† Adjusted for change in contents in Allatoona Reservoir.

02394000 ETOWAH RIVER AT ALLATOONA DAM, ABOVE CARTERSVILLE, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA. WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV						
01...	1650	359	7.7	14.0	16.5	8.7
DEC						
08...	1545	9020	7.2	3.5	8.0	5.4
JAN						
11...	1100	9500	6.9	-7.0	3.5	11.7
FEB						
16...	1240	337	7.0	4.0	6.5	12.6
MAR						
21...	1025	8470	7.8	8.5	8.0	11.6
APR						
25...	0920	8210	6.6	15.0	13.5	7.7
JUN						
08...	1330	304	6.8	23.5	20.0	8.9
JUL						
18...	0825	304	6.9	26.0	21.5	4.9
AUG						
29...	1000	5720	6.8	27.5	26.0	5.2
SEP						
26...	0730	315	7.1	21.0	23.5	5.7

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA,MG) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)
NOV							
01...	89	40	13	.6	91	38	33
DEC							
08...	42	10	7	.8	<30	13	17
JAN							
11...	41	25	6	1.2	<30	12	15
FEB							
16...	40	40	17	.6	<30	12	14
MAR							
21...	40	5	10	.8	33	12	40
APR							
25...	37	90	35	--	<30	10	11
JUN							
08...	40	25	12	.2	<30	14	12
JUL							
18...	44	--	5	.5	<30	--	--
AUG							
29...	47	--	15	.8	40	--	--
SEP							
26...	46	--	6	.2	70	--	--

MOBILE RIVER BASIN

02394000 ETOWAH RIVER AT ALLATOONA DAM, ABOVE CARTERSVILLE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 01...	<1	.15	.03	.02	660	50	7.0
DEC 08...	--	.06	<.02	.02	150	<50	1.0
JAN 11...	8	.13	.03	<.02	240	<50	1.0
FEB 16...	4	.21	.06	.03	340	80	<1.0
MAR 21...	5	.24	.04	<.02	200	<50	<1.0
APR 25...	10	.07	.05	.05	1700	<50	3.0
JUN 08...	--	.15	<.02	<.02	260	90	2.5
JUL 18...	<1	.12	.02	<.02	90	135	2.0
AUG 29...	6	.07	.13	.02	670	490	1.0
SEP 26...	3	.12	.08	<.02	128	70	2.0

02394980 ETOWAH RIVER NEAR EUHARLEE, GA.

LOCATION.--Lat 34°11'28", long 84°55'44", Bartow County, Hydrologic Unit 03150104, at Harden Bridge on county road, 1,000 ft (305 m) downstream from Ashpole Creek, and 3 mi (4.8 km) north of Euharlee.

DRAINAGE AREA.--1,600 mi² (4,100 km²), approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Allatoona Reservoir. (See "Lakes and Reservoirs in Mobile River Basin", station 02393500.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV						
01...	1200	836	7.3	14.5	14.0	8.8
DEC						
08...	1510	6720	7.4	1.5	7.5	10.5
JAN						
13...	1205	5330	7.5	1.5	3.0	12.4
FEB						
16...	1345	2760	7.9	4.0	6.0	11.8
MAR						
21...	1125	1200	7.8	8.0	10.0	10.4
APR						
25...	1015	9020	7.0	18.0	13.5	9.0
MAY						
17...	1220	740	7.5	30.0	17.5	8.8
JUN						
08...	1240	644	7.7	23.0	20.0	9.8
JUL						
20...	1325	500	7.5	33.0	24.0	7.5
AUG						
31...	1155	650	7.4	35.0	26.5	4.4
SEP						
26...	0930	496	7.4	26.0	23.5	8.0

DATE	SPF- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INIM- CORALY UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV												
01...	41	20	4	.4	<30	14	15	<1	.08	.07	<.02	5.0
DEC												
08...	63	20	29	1.0	9300	21	23	--	.09	<.02	.06	5.0
JAN												
13...	48	35	30	1.9	230	33	32	110	.22	.04	.08	3.0
FEB												
16...	120	50	25	1.8	<60	48	42	15	.30	.07	.10	<1.0
MAR												
21...	102	10	16	.5	36	43	38	13	.35	.02	.03	<1.0
APR												
25...	48	75	38	--	91	16	15	19	.24	.03	.07	3.0
MAY												
17...	109	40	19	.7	230	46	45	9	.34	<.02	.05	2.0
JUN												
08...	115	30	18	.7	230	46	43	6	.32	<.02	.04	3.0
JUL												
20...	103	--	10	.4	2300	52	--	4	.21	.03	.03	<1.0
AUG												
31...	117	--	19	.5	150	44	--	10	.29	.03	.05	1.0
SEP												
26...	110	--	24	.5	930	44	--	19	.27	.02	.05	2.0

02395000 ETOWAH RIVER NEAR KINGSTON, GA.

LOCATION.--Lat 34°12'24", long 84°58'44", Bartow County, Hydrologic Unit 03150104, on downstream side of center pier of bridge on U.S. Highway 411, 1 mi (1.6 km) upstream from Two Run Creek, 1.5 mi (2.4 km) upstream from Connesena Creek, and 2.5 mi (4.0 km) southwest of Kingston.

DRAINAGE AREA.--1,630 mi² (4,220 km²), approximately.

PERIOD OF RECORD.--July 1928 to December 1931, October 1936 to current year. Monthly discharge only for some periods, published in WSP 1304, 1734.

REVISED RECORDS.--WSP 1304: 1929-30.

GAGE.--Water-stage recorder. Datum of gage is 609.97 ft (185.92 m) above mean sea level (Dixie Construction Co. bench mark).

Prior to Aug. 11, 1928, nonrecording gage, Aug. 11, 1928 to Dec. 28, 1931, water-stage recorder, Nov. 16, 1936 to June 15, 1937, nonrecording gage, and June 16, 1937 to June 27, 1960, water-stage recorder, all 500 ft (152 m) upstream at same datum.

REMARKS.--Records good except those of no gage-height record, July 5-31, which are fair. Flow regulated by Allatoona Reservoir since December 1949. (See "Lakes and Reservoirs in Mobile River Basin," station 02393500.) Records of chemical analyses for the water years 1970-74 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--44 years, 2,547 ft³/s (72.1 m³/s), 21.22 in/yr (539.0 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,700 ft³/s (1,210 m³/s) Apr. 9, 1938, gage height, 27.7 ft (8.44 m); minimum daily, 268 ft³/s (7.59 m³/s) Oct. 19, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 31 ft (9.4 m) Dec. 11, 1919, from information by local resident, discharge, 52,000 ft³/s (1,470 m³/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 30,000 ft³/s (850 m³/s) Mar. 30, gage height, 21.53 ft (6.562 m); minimum daily, 539 ft³/s (15.26 m³/s) Nov. 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1170	2400	3870	2460	1520	1840	3950	1980	2380	1100	1500	1510
2	1640	1790	1200	1810	1530	1620	2890	4740	1710	1000	2010	1400
3	1260	823	2120	2730	1500	1510	5460	7040	2050	900	1980	1410
4	1050	2280	1470	2460	1500	1590	7640	8340	2000	1000	2010	1510
5	1320	1910	1130	2380	1140	1690	15300	8290	1320	1300	2080	1530
6	1390	1040	1030	2420	1100	2160	7270	8290	2530	1600	2120	1570
7	1670	1140	2470	3880	1610	3150	3280	3520	2450	2000	1190	1410
8	1320	1130	4990	2250	1920	2130	2640	1650	1590	1600	895	1440
9	1280	2780	3590	2460	2070	1840	2250	4680	1580	1300	1250	1580
10	946	876	2990	9590	1210	1790	2530	6850	1590	1000	1240	1210
11	1220	1120	2440	8810	1200	1590	5550	6800	1790	1200	1210	1200
12	1200	1250	1430	5370	1060	2140	8680	6870	1210	1500	1200	1110
13	1140	766	1990	4780	1190	7820	8760	7220	1190	1700	1460	1530
14	1120	930	2250	6700	2350	4720	8700	3500	1410	2100	1100	1470
15	1110	2100	2970	4360	1340	3330	8680	1420	1490	1500	895	1380
16	1040	2160	2410	2720	1270	2990	8590	1700	1700	1200	1320	1840
17	1270	1660	2330	4910	1320	4260	8540	1960	1410	1000	1430	1470
18	1330	2410	2300	3990	1110	4150	8510	1940	1170	1300	1600	1280
19	1640	3470	1280	5160	1090	4490	8480	2340	1090	1500	1330	1440
20	1020	1640	1310	4160	1040	2820	8510	1920	1520	1700	1480	1780
21	1760	539	3800	2980	1540	5020	8470	1600	1680	2000	1170	1650
22	1610	3310	1410	952	1160	7640	8520	968	2180	3000	1090	1810
23	876	1230	1930	866	1190	7100	7410	1500	1660	1800	1550	2150
24	1160	1630	1670	2120	2810	6060	9090	1920	2310	1500	1600	1600
25	2540	1620	2330	1870	2710	5790	8740	1830	1080	1700	1360	1230
26	1460	1620	1730	1860	1680	3110	8610	1900	1010	1800	1350	1270
27	1560	2060	2580	1840	1860	1390	8570	1750	2400	1700	1590	1710
28	1520	1530	3370	1790	2670	2470	8580	1830	1710	1700	1450	1460
29	1660	3300	3240	1060	---	8560	8610	1700	1710	1800	1420	1370
30	1170	5620	3220	881	---	26600	3700	1510	1450	1900	1430	1300
31	1290	---	3230	1440	---	15000	---	2170	---	1300	1360	---
TOTAL	41742	56134	74080	101059	43690	146370	216510	109728	50370	47700	44670	44620
MEAN	1347	1871	2390	3260	1560	4722	7217	3540	1679	1539	1441	1487
MAX	2540	5620	4990	9590	2810	26600	15300	8340	2530	3000	2120	2150
MIN	876	539	1030	866	1040	1390	2250	968	1010	900	895	1110

CAL YR 1976 TOTAL 1205832 MEAN 3295 MAX 16100 MIN 539 MEAN† 3313 CFSM† 2.03 IN† 27.67
WTR YR 1977 TOTAL 976673 MEAN 2676 MAX 26600 MIN 539 MEAN† 2678 CFSM† 1.64 IN† 22.30

† Adjusted for change in contents in Allatoona Reservoir.

02396000 ETOWAH RIVER AT ROME, GA.

LOCATION.--Lat 34°15'26", long 85°09'30", Floyd County, Hydrologic Unit 03150104, on downstream side of center pier of Southern Railway bridge in Rome, 2 mi (3.2 km) upstream from confluence with Oostanaula River.
DRAINAGE AREA.--1,810 mi² (4,690 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July to December 1903, August 1904 to June 1921 (published as "near Rome"), October 1938 to current year.

Monthly discharge only for some periods, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 561.70 ft (171.21 m) above mean sea level. July 1 to Dec. 31, 1903, nonrecording gage at Second Avenue Bridge, 1 mi (1.6 km) downstream at different datum. Aug. 17, 1904 to June 30, 1921, nonrecording gage at Freemans Ferry, 5 mi (8.0 km) upstream at different datum. Since May 15, 1939, auxiliary water-stage recorder at Second Avenue Bridge, 1 mi (1.6 km) downstream.

REMARKS.--Records fair except those for periods of no gage-height record, Oct. 1 to Nov. 1, Jan. 19-27, June 13 to July 20, Aug. 15 to Sept. 6, Sept. 8-30, which are poor. Flow regulated by Allatoona Reservoir since 1949. (See "Lakes and Reservoirs in Mobile River Basin," station 02393500.)

AVERAGE DISCHARGE.--55 years (1904-20, 1938-77), 2,941 ft³/s (83.3 m³/s), 22.06 in/yr (560.3 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,000 ft³/s (1,560 m³/s) Dec. 11, 1919, gage height, over 28 ft (8.5 m), at former site at Freemans Ferry, computed from data at upstream stations; minimum daily, 360 ft³/s (10.2 m³/s) Oct. 10, 1904.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, that of Dec. 11, 1919.

Flood of Apr. 9, 1938, reached a stage of 37.5 ft (11.43 m), discharge, 46,500 ft³/s (1,320 m³/s), from gage readings and discharge measurements by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 30,700 ft³/s (869 m³/s) Mar. 30; maximum gage height, 32.99 ft (10.055 m) Apr. 5; minimum daily discharge, 695 ft³/s (19.7 m³/s) Nov. 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1650	1900	5490	3270	1830	2440	8270	2670	2430	1700	1450	1600
2	1680	2330	1770	2130	1790	2150	5200	3740	2610	1700	2070	1700
3	1540	1470	2240	2120	1760	2000	7060	6380	1730	1200	2060	1400
4	1400	1970	1920	3360	1770	2000	11500	8370	2500	1300	2060	1500
5	1100	1820	1310	2690	1550	2130	22000	8390	1450	1300	2070	1500
6	1500	1480	1360	2620	1460	2620	15100	8410	1570	1700	2500	1600
7	1600	1260	2590	3600	1670	3970	7420	5310	3590	2300	1300	1610
8	2000	1270	3510	3270	1900	2990	5680	2050	1870	1600	1210	1500
9	1500	2710	5120	2400	2570	2500	4940	3470	1930	1500	1350	2000
10	1200	1430	3180	9130	1490	2290	4490	6940	1900	1100	1280	2100
11	1420	1280	2960	10200	1490	2090	6930	6930	1910	1100	1280	2000
12	1360	1350	1650	6840	1340	2070	9400	6990	1750	1500	1280	1600
13	1320	1150	1680	5120	1410	9350	9330	7310	1400	1600	1330	1600
14	1300	1110	3150	7200	2220	8190	8990	5170	1800	2500	1510	1700
15	1260	1720	2950	6540	1810	5520	8920	1710	1700	2000	1500	1800
16	1270	2910	3230	3420	1490	4480	8740	1770	1800	1900	1300	2200
17	1300	1810	2710	4190	1570	4880	8720	2300	1600	1500	1100	2100
18	1350	2410	2570	5410	1350	5340	8650	2260	1800	1400	1400	1900
19	1580	3340	1550	5000	1310	4990	8660	2090	1500	1700	1200	1900
20	1400	2830	1590	4500	1330	4030	8610	2630	1400	1900	1200	2100
21	1600	695	3620	2900	1620	4320	8580	2020	1800	1890	1100	1800
22	1700	2510	2260	2100	1390	8210	8640	1120	1900	3160	1400	1700
23	1350	2390	2580	1100	1380	7780	7750	1520	2300	1890	1500	2500
24	1350	1800	2000	1800	2510	6790	9390	2260	1800	1590	1600	1600
25	2000	1780	2650	2200	3410	6350	9090	1990	2500	1570	1700	1400
26	2300	1830	1990	2300	2290	5080	8840	2020	1200	1820	1500	1500
27	1700	1910	2470	2200	2300	1990	8760	1930	1100	1750	1400	1600
28	1700	1690	3680	2140	3090	2450	8760	1910	2300	1650	1500	1900
29	1750	2470	3560	1720	---	7040	8750	1860	1900	1750	1500	1900
30	1670	5160	3490	1280	---	27400	5760	1720	1700	1970	1500	1700
31	1500	---	3520	1390	---	23000	---	1840	---	1500	1600	---
TOTAL	47350	59785	84350	114140	51100	176440	262930	115080	56740	53040	46750	53010
MEAN	1527	1993	2721	3682	1825	5692	8764	3712	1891	1711	1508	1767
MAX	2300	5160	5490	10200	3410	27400	22000	8410	3590	3160	2500	2500
MIN	1100	695	1310	1100	1310	1990	4490	1120	1100	1100	1100	1400

CAL YR 1976 TOTAL 1344733 MEAN 3674 MAX 19400 MIN 655 MEAN† 3692 CFSM† 2.04 IN† 27.76
WTR YR 1977 TOTAL 1120715 MEAN 3070 MAX 27400 MIN 695 MEAN† 3072 CFSM† 1.70 IN† 23.04

† Adjusted for change in contents in Allatoona Reservoir.

MOBILE RIVER BASIN

02396000 ETOWAH RIVER AT ROME, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV 01...	1345	1820	7.8	13.5	12.5	9.2
DEC 08...	1245	3800	7.7	5.0	7.0	10.0
JAN 13...	1045	2880	7.5	3.5	3.0	11.9
FEB 16...	1045	980	7.8	-5.5	5.0	12.2
MAR 23...	1200	6580	7.1	10.5	9.0	10.6
APR 25...	1100	8860	7.4	15.0	14.0	8.9
JUN 08...	0900	2990	7.7	17.0	19.0	10.8
JUL 20...	1000	3270	7.6	28.0	25.0	6.6
AUG 31...	1115	891	7.6	30.5	27.0	7.3
SEP 27...	0900	2660	7.5	27.0	23.5	6.9

DATE	TOTAL ORGANIC CARBON (C) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)
NOV 01...	9.0	104	40	15	.4	1500	45
DEC 08...	2.0	94	30	54	1.6	93000	37
JAN 13...	2.0	64	25	16	1.2	91	24
FEB 16...	<1.0	140	20	17	.6	91	62
MAR 23...	3.0	59	100	76	1.1	9300	24
APR 25...	3.0	62	75	40	--	430	23
JUN 08...	1.0	90	30	22	.6	430	38
JUL 20...	4.0	101	--	25	.7	930	38
AUG 31...	1.0	115	--	25	.4	2249	46
SEP 27...	3.0	108	--	33	.6	430	42

02396000 ETOWAH RIVER AT ROME, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	ALKA- LINITY AS CaCO3 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)
NOV 01...	41	<1	.11	.03	.05	670	70
DEC 08...	38	--	.16	<.02	.11	2200	150
JAN 13...	25	14	.20	.04	.03	410	70
FEB 16...	53	6	.35	.04	.04	350	50
MAR 23...	21	79	.26	.05	.09	2200	240
APR 25...	21	32	.25	<.02	.07	1900	120
JUN 08...	35	15	.28	<.02	.04	680	70
JUL 20...	--	39	.20	.05	.07	--	--
AUG 31...	--	23	.31	<.02	.07	--	--
SEP 27...	--	44	.24	.03	.08	--	--

MOBILE RIVER BASIN

02397000 COOSA RIVER NEAR ROME, GA.

LOCATION.--Lat 34°12'01", long 85°15'24", Floyd County, Hydrologic Unit 03150105, on left bank attached to shoreward side of lock wall of Mayos Bar lock near upstream end, 1.5 mi (2.4 km) upstream from Webb Creek, 6 mi (9.7 km) southwest of Rome, 7.5 mi (12.1 km) downstream from confluence of Oostanaula and Etowah Rivers, and at mile 278.6 (448.3 km).
DRAINAGE AREA.--4,040 mi² (10,500 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1896 to December 1903 (published as "at Rome"), June 1928 to December 1931, March 1937 to December 1958, October 1962 to current year. Monthly discharge only for some periods, published in WSP 1304. Water years 1959-62 (annual maximum only). Gage-height records collected at same site 1922-49, are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1906: 1959(M).

GAGE.--Water-stage recorder. Datum of gage is 553.05 ft (168.57 m) above mean sea level (levels by Corps of Engineers). Jan. 1, 1897 to Dec. 31, 1903, nonrecording gage at site 7.5 mi (12.1 km) upstream at datum 8.65 ft (2.64 m) higher. June 21, 1928 to Dec. 31, 1931 and Mar. 10, 1937 to Dec. 31, 1958, water-stage recorder at site 200 ft (61 m) downstream at same datum. Water-stage recorder at Fifth Avenue in Rome used as auxiliary gage since 1963.

REMARKS.--Records good. Flow regulated by Allatoona Reservoir since December 1949 and by Carters Lake and Carters re-regulation Reservoir since November 1974. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400, 02382400, and 02393500.)

AVERAGE DISCHARGE.--46 years (1896-1903, 1928-31, 1937-58, 1962-77), 6,681 ft³/s (189 m³/s), 22.46 in/yr (570.5 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 65,000 ft³/s (1,840 m³/s) Jan. 22, 1947, gage height, 37.0 ft (11.28 m); minimum daily, 870 ft³/s (24.6 m³/s) Oct. 18-22, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1834, 40.3 ft (12.28 m) at site and datum at Rome, equivalent to about 43 ft (13.1 m) at present site, from gage-height relation, Apr. 1, 1886, discharge, 100,000 ft³/s (2,830 m³/s), from rating curve extended above 63,000 ft³/s (1,780 m³/s) on basis of peak flow at Gadsden, Ala.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 55,700 ft³/s (1,580 m³/s) Apr. 6, gage height, 33.79 ft (10.299 m); minimum daily, 1,690 ft³/s (47.9 m³/s) Nov. 21.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2600	2620	10100	7100	3290	8600	36400	8170	3860	3270	2030	2070
2	2560	3790	5860	5880	3330	8220	31500	7090	4470	2700	2720	2170
3	2360	3190	4470	5080	3430	7420	30700	9930	3670	2240	2810	2030
4	2230	3100	3540	6510	3540	6910	34100	11700	5390	2390	2740	2130
5	1840	2870	2670	5810	3460	7280	48700	13000	5180	2330	2600	2230
6	2280	2530	2600	5490	3190	9220	54600	13000	3860	3180	2870	2370
7	2630	2150	4140	6940	2880	12100	45400	11100	5130	4340	1890	2590
8	3150	2100	5760	8710	3010	11400	38900	6830	3180	2740	1870	3160
9	2770	2930	8780	8790	4610	9760	35100	6460	3150	2410	1960	5170
10	2320	2700	6160	16100	4880	7480	31800	9070	3060	1900	2040	7150
11	2660	3110	5230	20600	3860	6420	30000	9600	2990	1920	2670	6470
12	2640	2590	4480	17800	2770	7540	27400	9870	2800	2370	2690	3550
13	2420	2070	5790	13100	2810	24900	22600	10300	2810	2770	2370	2860
14	2220	1990	7730	12600	3250	30000	19700	8750	2740	3370	2330	2950
15	2090	2180	7090	12400	3490	27600	18100	4590	2690	2380	2230	4660
16	1980	3790	7460	9070	2960	24700	16600	3960	2900	2300	2330	6110
17	2000	2650	7590	8010	2890	23300	15600	4370	2710	1930	2460	6230
18	2180	3130	6200	9090	2930	22000	14900	4990	2830	1870	3080	6360
19	2440	3780	4270	8310	2920	15100	15400	5410	2480	2220	2820	6470
20	2330	3970	4350	9000	2660	11500	14800	6200	2440	2550	3040	5600
21	2800	1690	7110	6730	2650	9230	14600	5690	2940	2280	2570	3890
22	2580	2700	8450	5370	2560	16300	14600	4130	3110	3500	2220	3380
23	2700	3500	7860	3250	2580	17300	16000	3900	3640	2170	2320	3910
24	2900	2520	6490	3660	5610	15200	18200	4150	3490	1910	2660	2850
25	3300	2500	7570	4030	9500	13200	18500	4310	4620	1890	2580	2590
26	3500	2510	7130	4230	9150	11900	17100	4360	2650	2030	2320	2880
27	3040	2530	6930	4270	8500	6980	15800	4040	2340	2310	2200	3140
28	3120	2640	8080	4270	8570	5220	14900	4320	3540	2760	2200	5140
29	2980	3490	7210	3960	---	10700	14500	4180	3650	2330	2180	5070
30	2900	7970	6630	3260	---	31000	12300	3430	3140	2120	2140	3760
31	2460	---	6740	3040	---	39700	---	3350	---	2030	2090	---
TOTAL	79980	89290	194470	242460	115280	458180	738800	210250	101460	76510	75030	118940
MFAN	2580	2976	6273	7821	4117	14780	24630	6782	3382	2468	2420	3965
MAX	3500	7970	10100	20600	9500	39700	54600	13000	5390	4340	3080	7150
MIN	1840	1690	2600	3040	2560	5220	12300	3350	2340	1870	1870	2030

CAL YR 1976 TOTAL 2876670 MEAN 7860 MAX 37100 MIN 1500 MEAN† 7876 CFSM† 1.95 IN† 26.54
WTR YR 1977 TOTAL 2500650 MEAN 6851 MAX 54600 MIN 1690 MEAN† 6882 CFSM† 1.70 IN† 23.12

† Adjusted for change in contents in Carters Lake, Carters re-regulation pool, and Allatoona Reservoir.

02397000 COOSA RIVER NEAR ROME, GA.--Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.05	12.41	15.31	14.29	12.88	14.90	28.59	14.59	12.93	12.73	12.18	12.04
2	12.37	12.96	13.80	13.85	12.90	14.77	26.06	14.21	13.19	12.45	12.54	12.09
3	12.28	12.70	13.27	13.53	12.94	14.51	25.50	15.18	12.86	12.21	12.57	12.00
4	12.21	12.65	12.88	14.08	12.99	14.34	27.61	15.84	13.55	12.30	12.54	12.05
5	11.93	12.64	12.46	13.82	12.96	14.46	32.06	16.28	13.47	12.27	12.44	12.12
6	12.25	12.35	12.42	13.70	12.84	15.12	33.53	16.29	12.94	12.71	12.57	12.20
7	12.45	12.14	13.11	14.23	12.69	16.13	31.83	15.60	13.43	13.21	12.05	12.36
8	12.71	12.10	13.76	14.84	12.73	15.89	30.10	14.13	12.63	12.49	12.04	12.62
9	12.52	12.56	14.85	14.87	13.44	15.31	28.86	13.98	12.61	12.29	12.07	13.46
10	12.26	12.41	13.93	17.60	13.55	14.53	27.60	14.89	12.57	12.00	12.12	14.21
11	12.46	12.67	13.57	19.56	13.13	14.15	26.42	15.07	12.53	12.01	12.51	13.95
12	12.45	12.38	13.27	18.40	12.63	14.55	24.76	15.17	12.44	12.29	12.52	12.77
13	12.33	12.06	13.81	16.52	12.66	21.93	21.80	15.34	12.45	12.52	12.33	12.45
14	12.20	12.01	14.50	16.31	12.86	24.92	20.11	14.77	12.40	12.79	12.31	12.50
15	12.12	12.13	14.28	16.28	12.96	23.31	19.23	13.24	12.38	12.26	12.25	13.24
16	12.04	12.94	14.41	15.07	12.73	21.59	18.42	13.00	12.50	12.26	12.28	13.83
17	12.05	12.42	14.45	14.70	12.69	20.87	17.88	13.16	12.41	12.04	12.35	13.87
18	12.18	12.67	13.95	15.08	12.72	20.28	17.58	13.41	12.47	12.01	12.68	13.93
19	12.33	12.95	13.20	14.81	12.71	17.33	17.29	13.57	12.29	12.22	12.55	13.97
20	12.25	13.01	13.23	15.05	12.58	15.92	17.03	13.87	12.27	12.43	12.66	13.62
21	12.52	11.79	14.27	14.25	12.58	15.12	16.93	13.68	12.53	12.27	12.40	12.94
22	12.40	12.40	14.74	13.73	12.51	17.79	16.95	13.06	12.62	12.86	12.20	12.70
23	12.47	12.81	14.55	12.88	12.53	18.16	17.49	12.97	12.86	12.22	12.23	12.92
24	12.58	12.32	14.08	13.05	13.82	17.33	18.43	13.06	12.81	12.05	12.44	12.44
25	12.76	12.30	14.45	13.21	15.21	16.57	18.54	13.13	13.28	12.05	12.38	12.32
26	12.82	12.32	14.31	13.29	15.09	16.08	17.94	13.15	12.42	12.13	12.21	12.47
27	12.65	12.32	14.24	13.31	14.87	14.34	17.38	13.02	12.24	12.33	12.13	12.60
28	12.68	12.44	14.62	13.31	14.89	13.69	17.04	13.14	12.83	12.59	12.14	13.44
29	12.61	12.85	14.32	13.18	---	15.70	16.89	13.08	12.89	12.34	12.13	13.42
30	12.56	14.56	14.12	12.88	---	25.61	16.06	12.77	12.68	12.22	12.09	12.88
31	12.34	---	14.16	12.77	---	29.74	---	12.72	---	12.17	12.06	---
MEAN	12.38	12.54	13.95	14.60	13.18	17.58	22.20	14.04	12.72	12.35	12.32	12.91
MAX	12.82	14.56	15.31	19.56	15.21	29.74	33.53	16.29	13.55	13.21	12.68	14.21
MIN	11.93	11.79	12.42	12.77	12.51	13.69	16.06	12.72	12.24	12.00	12.04	12.00
WTR YR 1977	MEAN 14.23		MAX 33.53	MIN 11.79								

MOBILE RIVER BASIN

02397000 COOSA RIVER NEAR ROME, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV 01...	1310	2760	7.5	12.5	11.5	8.2
DEC 08...	1140	7490	7.7	1.0	7.0	10.2
JAN 12...	1510	15900	7.2	2.0	2.5	12.0
FEB 16...	1145	2740	7.6	.0	5.0	12.0
MAR 23...	1013	18400	7.4	10.0	9.5	9.7
APR 25...	1345	18500	7.5	16.5	14.5	7.5
JUN 08...	0940	4130	7.4	17.5	20.5	8.4
JUL 20...	1200	3600	7.6	32.0	27.0	7.6
AUG 31...	0940	2400	7.4	28.5	26.5	6.2
SEP 27...	1015	3880	7.0	29.0	24.0	7.0

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 01...	118	40	10	.8	2100	47	45	.11	.07	.16	10
DEC 08...	104	10	18	1.2	23000	42	41	.19	.02	.13	2.0
JAN 12...	65	60	44	1.4	2300	25	22	.19	.02	.13	5.0
FEB 16...	128	30	14	1.2	23000	52	49	.37	.07	.15	41.0
MAR 23...	78	100	93	1.4	1500	30	27	.25	.04	.08	7.0
APR 25...	74	60	35	--	2300	27	26	.26	.02	.08	4.0
JUN 08...	100	25	22	1.6	23000	40	37	.33	.02	.16	1.0
JUL 20...	154	--	19	1.3	9300	56	--	.31	.04	.23	3.0
AUG 31...	136	--	20	1.0	430000	50	--	.43	.05	.28	3.0
SEP 27...	135	--	33	1.4	9300	52	--	.39	.11	.21	5.0

02397500 CEDAR CREEK NEAR CEDARTOWN, GA.

LOCATION.--Lat 34°03'38", long 85°18'41", Polk County, Hydrologic Unit 03150105, on left bank 700 ft (213 m) downstream from bridge on State Highway 161, 4.5 mi (7.2 km) upstream from Lake Creek, and 4.5 mi (7.2 km) northwest of Cedartown.

DRAINAGE AREA.--109 mi² (282 km²).

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Water-discharge records for the water years 1943-1973 are published in reports of the Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV 03...	1430	60	7.7	17.0	10.5	5.4
DEC 08...	1115	100	7.6	6.0	7.5	5.4
JAN 12...	1420	266	7.5	6.0	4.5	11.4
FEB 16...	1225	76	7.8	.0	7.0	10.4
MAR 23...	0900	544	7.6	5.5	9.0	9.9
APR 25...	1430	158	7.8	17.0	16.5	8.4
JUN 08...	1030	67	7.8	20.5	18.5	7.2
JUL 19...	1400	56	7.8	34.5	24.0	8.2
AUG 31...	0830	42	7.5	27.0	21.5	1.2
SEP 27...	1100	74	7.5	29.0	21.5	3.4

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 03...	336	10	2	.9	36	133	130	.08	<.02	.23	4.0
DEC 08...	284	10	7	1.2	230	114	106	.29	<.02	.17	4.0
JAN 12...	161	10	15	2.0	7850	66	62	.43	.02	.05	4.0
FEB 16...	257	10	7	2.2	930	116	113	.46	.22	.23	2.0
MAR 23...	119	30	27	1.5	15000	50	46	.30	<.02	.05	3.0
APR 25...	197	10	11	--	4350	85	81	.45	.09	.09	2.0
JUN 08...	311	5	9	1.7	2300	127	121	.55	<.02	.24	2.5
JUL 19...	265	--	8	1.7	93000	130	--	.19	.14	.32	3.0
AUG 31...	380	--	7	2.4	43000	132	--	<.02	.83	.90	4.0
SEP 27...	286	--	11	1.6	5900	112	--	.17	.45	.06	6.0

MOBILE RIVER BASIN

02397530 COOSA RIVER NEAR COOSA, GA.

LOCATION.--Lat 34°11'54", long 85°26'46", Floyd County, Ga.-Cherokee County, Ala., Hydrologic Unit 03150105, 6.5 mi (10.5 km) southwest of Coosa, and at mile 254.8 (410.0 km).

DRAINAGE AREA.--4,360 mi² (11,300 km²), approximately.

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

REMARKS.--Flow regulated by Allatoona Reservoir and by Carters Lake and re-regulation dam. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400, 02382400, and 02393500). Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 253 micromhos Sept. 15; minimum recorded, 60 micromhos Mar. 14.

pH: Maximum, 7.6 units July 20, 21; minimum recorded, 6.4 units Mar. 14, Apr. 11, Sept. 12.

WATER TEMPERATURE: Maximum, 34.0°C July 15; minimum, 2.5°C Jan. 18, 19.

DISSOLVED OXYGEN: Maximum, 14.4 mg/L Jan. 20; minimum, 1.4 mg/L July 8.

WATER QUALITY DATA: WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV					
03...	1335	7.6	18.0	14.0	8.5
DEC					
08...	0915	7.1	3.0	10.0	10.1
JAN					
12...	1330	7.2	6.0	5.0	11.5
FEB					
15...	1315	7.6	7.5	9.5	10.0
MAR					
22...	1500	7.0	12.0	13.0	10.1
APR					
27...	1235	7.2	19.0	17.0	8.8
MAY					
17...	0915	7.0	27.5	20.5	8.1
JUN					
07...	1150	7.0	25.0	24.0	--
JUL					
19...	1310	7.5	33.5	31.0	6.1
AUG					
30...	1515	7.7	34.0	30.0	--
SEP					
27...	1300	7.0	28.0	25.5	--

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- RID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	CON- FIRMED COLI- FORM (MPN)	HARD- NESS (CA+MG) (MG/L)
NOV							
03...	137	30	9	1.2	930	--	50
DEC							
08...	163	20	13	1.4	1500	4300	61
JAN							
12...	68	80	80	1.6	2300	43000	26
FEB							
15...	160	20	16	1.8	5150	--	60
MAR							
22...	98	40	54	1.6	2300	--	41
APR							
27...	75	60	35	.9	230	--	29
MAY							
17...	110	30	15	.7	36	430	40
JUN							
07...	98	20	20	1.0	390	750	30
JUL							
19...	125	--	12	2.0	430	--	--
AUG							
30...	165	--	22	4.1	150	--	48
SEP							
27...	137	--	13	.8	430	--	44

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TOTAL CAL- CIUM (CA) (MG/L)	TOTAL MAG- NE- SIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)	TOTAL PO- TAS- SIUM (K) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (S04) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
NOV 03...	--	--	--	--	52	12	4.7
DEC 08...	17	4.7	9.2	1.8	60	--	5.3
JAN 12...	7.5	1.4	2.6	1.5	24	10	2.5
FEB 15...	16	4.6	7.4	1.4	60	--	4.0
MAR 22...	13	5.1	3.0	1.2	37	8.0	2.5
APR 27...	7.9	2.1	2.6	1.3	27	5.3	3.2
MAY 17...	11	3.0	6.3	1.4	43	12	3.2
JUN 07...	8.4	2.4	5.0	1.3	33	11	4.0
JUL 19...	--	--	--	--	--	--	--
AUG 30...	--	--	--	--	--	--	--
SEP 27...	--	--	--	--	--	--	--

DATE	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL RESI- DUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 03...	8	118	.28	.07	.16	--	--	4.0
DEC 08...	--	--	.22	.09	.21	650	70	4.0
JAN 12...	132	204	.20	.04	.20	1600	320	7.0
FEB 15...	42	190	.33	.17	.24	400	80	5.0
MAR 22...	74	--	.31	<.02	.13	1300	140	4.0
APR 27...	24	103	.25	<.02	.13	1600	90	3.0
MAY 17...	14	122	.27	<.02	.09	670	60	4.0
JUN 07...	22	94	.23	<.02	.09	820	90	<1.0
JUL 19...	21	134	.24	<.02	.13	--	--	5.0
AUG 30...	13	115	.35	<.02	.17	--	--	6.0
SEP 27...	10	130	.24	.03	.16	--	--	6.0

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	122	87	165	139	128	96	---	---	188	172	115	109
2	144	113	154	140	102	92	---	---	190	181	108	103
3	143	118	145	133	103	88	---	---	193	178	107	99
4	138	119	145	123	107	101	---	---	181	159	99	94
5	149	125	146	124	122	100	---	---	178	159	105	97
6	151	128	158	147	129	117	---	---	170	157	105	100
7	150	126	155	134	145	127	---	---	167	150	102	95
8	149	136	157	128	159	137	---	---	164	145	99	94
9	156	139	159	135	142	102	---	---	163	154	94	92
10	157	137	164	150	118	91	---	---	175	154	97	95
11	150	130	166	146	119	104	---	---	155	135	104	97
12	145	132	158	122	118	103	69	64	131	118	111	100
13	152	139	155	121	121	112	82	66	135	125	99	65
14	156	141	160	152	131	120	97	72	155	132	65	60
15	163	145	154	142	132	117	87	73	166	149	70	66
16	161	147	161	147	121	111	98	76	166	153	72	69
17	152	144	167	157	116	106	110	100	161	155	74	68
18	154	146	165	130	123	108	111	86	162	147	81	75
19	150	140	141	119	114	104	107	82	170	153	88	79
20	153	146	146	126	129	112	106	82	167	152	88	83
21	163	150	132	114	132	125	103	76	166	153	89	81
22	159	147	124	99	127	100	109	99	159	152	101	82
23	150	131	147	104	110	103	123	100	157	152	88	82
24	148	136	163	141	112	106	135	117	167	138	85	79
25	134	115	165	118	---	---	162	136	143	118	88	80
26	149	112	140	120	---	---	180	161	119	110	89	79
27	122	113	159	128	---	---	165	151	112	106	88	80
28	128	112	167	118	---	---	169	154	113	106	---	---
29	122	109	162	121	---	---	171	158	---	---	---	---
30	141	125	152	127	---	---	176	163	---	---	---	---
31	157	137	---	---	---	---	179	160	---	---	---	---
MONTH	163	87	167	99	159	88	180	64	193	106	115	60
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	87	76	165	138	157	135	169	162	158	152
2	---	---	97	89	154	137	143	131	162	153	156	151
3	---	---	108	96	153	139	135	125	157	153	157	151
4	---	---	100	83	144	129	139	126	157	147	154	151
5	---	---	94	86	135	116	136	130	154	137	154	148
6	---	---	89	83	130	114	136	129	141	129	152	149
7	---	---	87	83	116	98	159	134	137	131	149	147
8	---	---	102	84	122	104	159	150	139	131	150	139
9	---	---	106	100	133	115	151	126	133	127	148	133
10	---	---	119	105	133	112	127	123	131	127	---	---
11	78	73	113	81	136	115	122	111	142	130	142	127
12	79	77	102	88	147	138	121	112	155	141	109	96
13	77	76	95	85	149	143	133	121	150	143	146	104
14	76	75	91	83	149	141	144	133	155	143	184	113
15	76	74	90	84	155	149	149	142	160	149	253	142
16	76	75	109	89	159	149	147	138	149	143	223	148
17	81	74	123	110	163	151	143	137	151	145	181	173
18	75	72	134	125	160	152	137	131	153	149	191	173
19	73	72	143	132	160	149	133	125	161	153	180	142
20	74	72	133	117	158	154	147	135	158	147	195	128
21	75	72	120	112	171	153	157	147	160	146	138	114
22	73	71	120	102	170	156	169	155	154	143	127	117
23	78	73	122	103	164	157	172	154	157	140	128	120
24	82	74	127	123	164	154	160	155	168	159	143	128
25	76	74	138	125	160	140	---	---	164	154	142	129
26	77	75	157	139	142	139	---	---	155	149	142	133
27	76	74	148	138	141	135	142	138	159	149	160	133
28	78	74	158	141	144	126	159	142	159	147	168	146
29	76	73	151	139	131	122	153	145	161	147	158	142
30	76	73	147	138	161	133	158	150	162	157	152	142
31	---	---	147	138	---	---	171	150	159	152	---	---
MONTH	82	71	158	76	171	98	172	111	169	127	253	96

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		
1	7.2	7.1	7.3	7.3	7.2	7.0	---	---	7.2	7.1	6.9	6.9
2	7.3	7.2	7.3	7.2	7.0	7.0	---	---	7.2	7.2	7.0	6.9
3	7.4	7.2	7.3	7.2	7.0	7.0	---	---	7.3	7.2	7.0	7.0
4	7.3	7.2	7.3	7.2	7.1	7.0	---	---	7.2	7.2	7.0	7.0
5	7.3	7.3	7.2	7.1	7.1	7.1	---	---	7.2	7.2	7.0	7.0
6	7.3	7.2	7.2	7.2	7.2	7.1	---	---	7.2	7.1	7.0	7.0
7	7.3	7.2	7.2	7.2	7.2	7.2	---	---	7.2	7.2	7.0	6.9
8	7.2	7.2	7.2	7.1	7.2	7.2	---	---	7.2	7.1	7.0	7.0
9	7.3	7.2	7.1	7.0	7.2	7.1	---	---	7.2	7.1	7.0	6.9
10	7.3	7.2	7.1	7.0	7.1	7.0	---	---	7.3	7.2	7.0	6.9
11	7.2	7.2	7.2	7.1	7.1	7.0	---	---	7.2	7.1	7.0	6.9
12	7.2	7.2	7.3	7.1	7.1	7.1	6.9	6.8	7.1	6.9	7.0	6.9
13	7.3	7.2	7.1	7.1	7.1	7.0	6.9	6.8	7.0	6.9	7.0	6.6
14	7.4	7.3	7.2	7.1	7.1	7.0	7.0	6.9	7.0	7.0	6.5	6.4
15	7.3	7.2	7.1	7.1	7.1	7.1	7.0	6.9	7.1	7.0	6.5	6.5
16	7.3	7.1	7.1	7.1	7.1	7.1	7.0	6.9	7.2	7.1	6.5	6.4
17	7.2	7.1	7.2	7.1	7.1	7.1	7.1	7.0	7.2	7.1	6.6	6.4
18	7.2	7.2	7.3	7.2	7.1	7.1	7.2	7.1	7.2	7.1	6.6	6.6
19	7.2	7.2	7.1	7.1	7.1	7.0	7.3	7.2	7.2	7.1	6.7	6.6
20	7.2	7.2	7.2	7.1	7.1	7.0	7.3	7.1	7.2	7.2	6.9	6.7
21	7.3	7.2	7.1	7.1	7.1	7.1	7.2	7.1	7.2	7.2	6.9	6.8
22	7.2	7.0	7.1	7.0	7.2	7.1	7.2	7.2	7.2	7.1	7.0	6.8
23	7.2	7.1	7.1	7.0	7.1	6.9	7.2	7.2	7.2	7.1	6.9	6.8
24	7.2	7.1	7.3	7.1	7.1	7.1	7.2	7.2	7.2	7.1	6.8	6.8
25	7.2	7.1	7.3	7.1	---	---	7.3	7.2	7.1	6.9	6.9	6.8
26	7.2	7.1	7.2	7.1	---	---	7.5	7.3	6.9	6.8	6.9	6.8
27	7.1	7.1	7.2	7.1	---	---	7.3	7.2	6.8	6.8	6.9	6.8
28	7.3	7.1	7.2	7.2	---	---	7.3	7.2	6.9	6.8	6.8	6.8
29	7.3	7.2	7.2	7.2	---	---	7.3	7.2	---	---	---	---
30	7.3	7.2	7.2	7.1	---	---	7.2	7.2	---	---	---	---
31	7.4	7.3	---	---	---	---	7.2	7.2	---	---	---	---
MONTH	7.4	7.0	7.3	7.0	7.2	6.9	7.5	6.8	7.3	6.8	7.0	6.4

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		
1	---	---	6.6	6.6	6.8	6.7	7.0	6.9	7.1	6.8	7.0	6.7
2	---	---	6.7	6.6	6.8	6.7	7.0	6.9	7.2	6.8	7.0	6.7
3	---	---	6.8	6.7	6.9	6.7	7.1	6.8	6.9	6.8	6.9	6.7
4	---	---	6.7	6.6	6.8	6.7	7.2	6.8	6.8	6.8	6.8	6.7
5	---	---	6.6	6.6	6.8	6.7	7.2	6.8	6.9	6.7	6.8	6.7
6	---	---	6.7	6.6	6.8	6.7	7.2	6.9	6.8	6.7	6.7	6.7
7	---	---	6.6	6.6	6.7	6.6	7.0	6.9	7.0	6.7	6.7	6.7
8	---	---	6.7	6.6	6.9	6.6	7.2	6.9	7.1	6.7	6.8	6.7
9	---	---	6.6	6.6	6.9	6.7	7.2	6.8	7.1	6.7	6.8	6.7
10	---	---	7.0	6.6	6.9	6.6	7.0	6.7	6.8	6.7	6.8	6.7
11	6.5	6.4	7.0	6.6	6.8	6.6	6.9	6.7	7.1	6.6	6.7	6.6
12	6.5	6.5	6.9	6.7	7.0	6.7	7.3	6.8	7.1	6.8	6.6	6.4
13	6.5	6.5	6.8	6.7	7.0	6.8	7.3	6.9	7.0	6.8	6.8	6.5
14	6.6	6.5	6.7	6.6	7.0	6.7	7.1	6.8	7.0	6.8	6.7	6.6
15	6.6	6.6	6.9	6.7	6.8	6.7	7.3	7.0	7.1	6.8	6.9	6.7
16	6.7	6.6	7.1	6.7	6.7	6.6	7.6	6.9	7.0	6.8	6.9	6.8
17	6.8	6.6	7.3	6.8	6.7	6.6	6.9	6.8	6.8	6.7	6.9	6.7
18	6.8	6.7	7.1	6.9	6.7	6.6	7.2	6.7	6.8	6.7	7.0	6.7
19	6.7	6.7	7.0	6.9	6.7	6.6	7.3	7.0	6.9	6.8	6.8	6.7
20	6.7	6.7	7.0	6.9	7.1	6.7	7.6	7.1	6.9	6.8	6.8	6.7
21	6.7	6.7	7.0	6.9	7.3	6.9	7.6	7.1	7.0	6.8	6.8	6.7
22	6.7	6.7	6.9	6.7	7.1	6.9	7.4	7.2	7.5	6.8	6.8	6.7
23	6.7	6.7	6.9	6.7	7.0	6.9	7.2	7.1	7.5	6.8	6.8	6.6
24	6.8	6.7	6.9	6.8	7.0	6.9	7.2	7.1	7.0	6.8	6.9	6.7
25	6.7	6.7	6.9	6.7	6.9	6.8	---	---	6.9	6.8	6.9	6.8
26	6.8	6.7	7.0	6.9	6.9	6.8	---	---	6.9	6.7	6.8	6.7
27	6.8	6.6	6.9	6.8	7.1	6.8	6.9	6.7	6.9	6.8	6.8	6.7
28	6.7	6.7	6.9	6.8	6.9	6.8	6.8	6.7	6.9	6.8	6.9	6.8
29	6.7	6.6	7.0	6.8	6.8	6.7	6.8	6.8	7.0	6.7	6.9	6.8
30	6.7	6.6	7.2	6.8	7.1	6.8	6.9	6.8	7.0	6.8	6.9	6.9
31	---	---	7.0	6.7	---	---	6.9	6.8	7.0	6.8	---	---
MONTH	6.8	6.4	7.3	6.6	7.3	6.6	7.6	6.7	7.5	6.6	7.0	6.4

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	26.0	24.0	15.0	13.5	10.5	9.0	---	---	7.5	5.5	13.5	11.0
2	25.5	23.5	15.0	13.0	11.0	9.0	---	---	7.5	6.0	12.5	11.0
3	27.0	23.5	14.5	13.0	11.5	9.0	---	---	7.0	6.0	11.0	10.5
4	25.5	23.0	15.5	13.0	11.0	8.5	---	---	8.0	6.0	11.5	10.0
5	24.5	23.0	14.5	13.0	12.0	9.0	---	---	7.5	6.0	11.5	10.0
6	23.5	22.5	14.0	12.0	10.5	9.5	---	---	7.5	6.0	11.0	10.5
7	24.0	23.0	14.0	11.5	10.5	10.0	---	---	9.5	7.0	12.0	10.0
8	23.0	22.5	13.5	12.0	10.5	9.0	---	---	9.5	6.5	12.0	10.0
9	23.0	21.5	13.5	11.5	10.0	8.0	---	---	9.5	7.5	11.5	10.0
10	23.5	21.0	13.5	11.5	10.0	8.0	---	---	9.5	6.0	12.0	11.0
11	23.5	21.0	12.5	11.0	9.5	8.5	---	---	8.0	5.5	12.0	11.5
12	22.5	20.5	13.5	11.0	10.5	9.5	5.0	4.0	8.0	7.0	13.5	12.5
13	22.5	20.0	12.5	11.5	10.5	9.5	6.0	4.0	10.0	8.0	15.0	13.0
14	23.0	19.5	11.5	11.0	11.5	9.5	5.5	4.0	11.0	8.0	15.5	13.5
15	22.5	19.0	12.0	11.0	12.0	10.0	7.0	5.0	11.0	8.5	15.0	14.0
16	22.0	19.5	12.5	11.5	12.0	10.0	6.5	4.5	10.5	9.0	15.5	14.5
17	21.5	19.5	11.5	10.0	12.5	9.5	6.0	4.0	11.5	9.0	15.0	14.5
18	21.5	18.5	13.0	10.0	13.0	9.5	4.5	2.5	12.0	9.0	15.0	14.0
19	19.5	18.0	13.0	11.5	12.5	9.5	5.0	2.5	12.0	8.5	15.0	14.0
20	19.0	18.0	12.5	12.0	11.5	10.0	5.0	3.0	11.0	8.0	15.0	13.0
21	19.0	17.0	14.0	12.0	11.0	8.5	5.0	3.5	11.0	7.5	13.0	12.5
22	19.0	16.0	12.5	11.0	9.5	7.0	6.0	3.5	11.5	8.5	13.5	11.5
23	19.0	16.0	13.0	11.0	8.5	6.5	6.5	4.0	12.0	10.0	13.5	11.5
24	17.0	16.0	12.5	10.5	8.5	6.0	5.5	4.5	12.5	10.0	13.5	11.0
25	17.5	16.5	12.0	10.5	---	---	8.0	5.5	12.5	10.5	13.5	11.5
26	16.5	15.5	11.5	10.5	---	---	9.0	5.0	13.5	11.0	13.5	12.0
27	16.5	15.0	12.0	11.5	---	---	9.5	5.5	12.5	11.5	14.5	12.5
28	18.0	15.0	12.5	12.0	---	---	9.5	6.0	13.5	11.5	14.0	13.5
29	16.5	15.0	12.5	11.5	---	---	8.0	5.0	---	---	---	---
30	15.0	14.0	13.5	10.5	---	---	7.5	6.0	---	---	---	---
31	14.5	14.0	---	---	---	---	8.5	6.5	---	---	---	---
MONTH	27.0	14.0	15.5	10.0	13.0	6.0	9.5	2.5	13.5	5.5	15.5	10.0
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	19.0	17.5	27.5	25.5	30.5	28.5	30.5	28.5	31.0	29.0
2	---	---	19.5	18.0	27.5	25.5	30.0	28.0	31.0	29.0	31.5	29.5
3	---	---	20.0	18.5	29.0	26.0	29.5	28.0	31.0	28.5	32.0	29.5
4	---	---	20.0	18.5	27.5	25.5	30.0	28.0	30.5	28.5	30.5	30.0
5	---	---	20.0	18.5	26.5	25.0	30.0	28.5	31.5	29.0	31.5	29.5
6	---	---	20.0	18.5	27.0	25.0	31.0	29.0	30.5	29.0	30.0	28.5
7	---	---	20.0	19.0	25.0	24.0	31.5	29.5	31.0	29.5	28.5	28.0
8	---	---	21.0	19.0	26.0	23.5	32.5	29.5	31.0	30.0	29.5	28.0
9	---	---	21.0	19.5	26.0	23.5	32.0	30.0	31.0	30.0	29.5	27.5
10	---	---	21.0	19.0	26.5	24.5	31.0	30.0	31.0	30.0	28.5	26.0
11	17.5	17.0	19.5	18.0	26.5	24.5	31.5	30.0	31.0	29.5	27.5	25.5
12	17.5	16.5	20.0	18.0	27.5	25.0	31.5	30.0	31.0	28.5	26.5	25.0
13	17.0	16.0	20.0	18.5	28.0	26.5	33.5	31.0	30.5	28.5	27.0	25.0
14	17.0	15.5	19.0	18.5	28.5	26.5	33.0	31.0	31.5	28.5	27.5	25.5
15	17.0	15.5	21.0	18.5	27.5	27.0	34.0	31.0	32.0	30.0	28.5	26.5
16	17.5	16.0	23.0	19.5	28.5	27.0	33.0	30.5	31.0	30.0	27.5	26.0
17	18.0	16.0	22.0	20.5	29.5	28.0	31.5	29.5	31.0	30.0	26.0	25.0
18	17.5	16.0	23.5	22.0	29.0	27.5	31.0	29.5	30.5	30.0	26.0	25.0
19	17.5	16.0	24.5	23.0	29.0	28.0	31.5	29.5	31.5	29.5	25.0	24.5
20	18.0	16.5	24.5	23.0	29.5	28.0	31.5	29.5	30.5	29.0	26.0	24.5
21	17.5	17.0	23.5	22.0	29.5	28.0	31.5	29.5	30.5	28.0	26.0	24.5
22	17.0	16.5	23.0	21.5	30.0	28.0	31.0	30.5	30.5	28.5	27.0	25.0
23	18.0	16.5	23.5	21.5	30.5	28.0	32.0	30.5	32.0	29.0	27.0	25.5
24	18.0	17.0	23.0	22.0	31.0	28.0	31.0	30.5	31.0	28.5	27.5	26.0
25	18.0	16.5	23.5	22.5	30.5	28.0	---	---	31.5	29.5	26.5	25.5
26	17.5	16.0	24.5	22.5	30.5	28.5	---	---	30.5	29.0	26.5	26.0
27	17.5	15.5	24.0	23.0	30.0	28.0	32.0	29.5	30.0	28.5	26.0	25.5
28	17.5	15.5	25.5	23.0	30.5	28.5	29.5	28.0	29.5	28.0	27.0	25.5
29	18.0	16.5	26.0	23.0	31.0	28.5	28.0	27.5	30.0	28.0	26.0	24.0
30	18.0	17.0	26.5	23.0	31.5	28.5	29.5	27.0	31.0	28.0	24.0	23.0
31	---	---	28.0	24.5	---	---	29.5	28.5	31.0	28.5	---	---
MONTH	18.0	15.5	28.0	17.5	31.5	23.5	34.0	27.0	32.0	28.0	32.0	23.0

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		
1	6.5	5.7	9.1	8.3	9.9	9.2	---	---	12.0	10.3	9.6	9.1
2	6.2	5.8	8.9	8.0	9.5	9.2	---	---	11.2	10.6	10.4	9.9
3	7.4	5.9	8.7	8.4	9.7	9.4	---	---	11.4	11.0	11.3	10.5
4	7.1	5.9	8.9	8.4	9.8	9.6	---	---	12.8	11.2	11.9	11.4
5	7.0	6.6	8.7	8.3	10.2	9.8	---	---	12.9	11.5	12.2	11.5
6	7.3	6.2	8.7	8.6	10.1	9.7	---	---	13.1	10.6	12.1	11.6
7	6.6	6.0	9.0	8.6	10.1	9.7	---	---	12.7	10.4	12.2	10.8
8	6.3	5.8	8.8	8.5	10.3	9.8	---	---	10.9	10.4	11.2	10.0
9	6.4	5.8	8.7	8.5	10.4	10.0	---	---	10.5	9.3	10.6	9.2
10	6.5	5.9	8.8	8.6	10.7	10.2	---	---	11.5	10.4	9.9	9.5
11	6.8	5.8	9.5	8.8	11.1	10.6	---	---	12.4	11.4	10.4	9.6
12	6.5	6.0	10.0	9.0	11.3	10.6	11.5	11.1	12.6	11.4	10.2	9.6
13	6.7	6.2	9.7	8.8	11.3	10.1	12.0	11.5	12.2	11.1	10.2	8.7
14	7.2	6.5	9.5	9.0	10.8	10.0	12.1	11.6	11.9	10.3	9.2	8.0
15	6.7	6.3	9.5	8.6	10.6	9.9	12.5	11.9	10.9	9.8	8.5	7.8
16	7.0	6.4	9.2	8.8	10.5	9.6	12.5	11.8	10.4	9.6	8.3	7.6
17	7.0	6.4	9.8	9.5	10.2	9.2	12.2	11.5	10.3	9.2	7.8	7.5
18	6.8	6.4	10.3	9.6	9.8	8.8	12.7	12.1	10.3	9.8	7.8	7.1
19	7.1	6.6	10.0	9.3	9.3	8.8	14.1	12.3	10.5	10.0	7.7	6.5
20	7.1	6.8	9.8	9.3	9.3	8.8	14.4	12.4	11.0	10.2	9.7	7.6
21	7.2	6.6	9.8	9.1	9.5	9.2	14.0	12.3	11.1	10.1	10.0	9.4
22	7.2	6.7	9.6	9.2	10.0	9.7	14.1	12.0	10.8	9.7	10.6	9.7
23	7.4	6.9	9.6	8.3	10.5	10.0	12.6	12.0	10.2	8.8	10.6	9.9
24	7.4	7.1	9.8	8.7	10.5	10.1	12.6	11.6	9.5	8.5	10.8	10.3
25	7.7	7.3	9.9	9.1	---	---	13.3	11.6	9.4	8.4	10.7	10.3
26	8.0	7.7	9.2	7.7	---	---	13.0	10.6	9.0	7.9	10.8	10.3
27	7.9	7.3	8.7	8.1	---	---	13.1	10.4	8.6	8.2	10.6	10.0
28	7.7	7.2	9.2	8.4	---	---	11.1	10.0	9.1	8.5	10.6	9.9
29	7.9	7.3	9.4	8.9	---	---	11.4	10.0	---	---	---	---
30	8.4	7.8	9.5	8.8	---	---	11.3	11.1	---	---	---	---
31	8.7	8.3	---	---	---	---	11.7	11.4	---	---	---	---
MONTH	8.7	5.7	10.3	7.7	11.3	8.8	14.4	10.0	13.1	7.9	12.2	6.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		
1	---	---	9.2	8.6	6.4	4.4	5.1	3.1	5.6	3.4	5.7	3.9
2	---	---	8.6	7.9	5.5	4.1	6.9	3.4	5.4	3.9	5.8	3.8
3	---	---	8.4	8.0	6.6	4.4	---	---	5.0	3.8	4.9	3.3
4	---	---	8.4	8.1	6.0	5.0	---	---	5.4	3.7	3.8	3.2
5	---	---	8.5	8.1	6.4	5.0	6.6	1.9	6.6	4.4	4.1	3.2
6	---	---	8.5	8.2	7.1	6.2	4.1	2.3	5.9	4.2	4.3	3.3
7	---	---	8.8	8.2	7.2	6.3	2.9	1.6	8.2	5.2	4.6	3.8
8	---	---	8.8	7.7	7.7	6.4	3.3	1.4	7.4	5.0	4.9	4.2
9	---	---	7.9	7.3	7.3	6.0	4.0	3.2	7.4	5.5	4.6	4.2
10	---	---	8.4	7.8	6.6	5.2	5.9	2.9	6.0	5.1	4.7	4.1
11	7.7	7.4	9.2	8.5	7.1	5.3	7.3	6.1	5.5	4.1	4.3	3.4
12	8.0	7.6	9.4	8.6	7.6	5.5	7.2	5.5	5.2	4.1	5.2	4.1
13	8.6	7.9	9.4	8.9	7.5	5.4	6.9	4.7	5.8	4.2	5.9	4.4
14	9.3	8.6	9.4	9.1	8.5	5.8	6.1	4.0	5.3	4.0	5.4	4.7
15	9.3	9.2	9.7	9.0	6.7	5.0	6.3	4.1	4.8	3.8	5.8	4.7
16	9.3	9.0	10.0	8.7	5.0	4.2	5.1	4.7	4.8	4.1	5.7	4.9
17	9.2	8.9	8.8	7.8	4.2	3.7	5.1	4.5	4.6	3.7	5.9	5.0
18	9.3	9.2	8.4	7.0	4.1	3.2	5.3	4.4	4.5	3.8	6.0	5.5
19	9.3	9.1	7.0	6.7	5.0	3.2	6.9	4.3	5.2	3.7	5.8	5.3
20	9.1	8.8	7.5	6.6	5.6	3.9	6.0	4.6	4.9	3.8	5.8	5.5
21	9.2	8.9	7.9	7.4	6.6	3.7	6.3	3.5	4.8	4.1	5.9	5.6
22	9.0	8.9	7.7	7.0	5.1	2.9	6.5	3.4	4.7	4.2	6.0	5.6
23	8.9	8.6	8.4	7.0	4.3	3.4	4.3	2.9	5.4	4.7	5.7	5.0
24	8.7	8.4	7.1	6.2	5.1	3.3	3.5	2.8	5.2	4.1	5.5	4.7
25	8.7	8.4	6.7	5.9	4.2	2.0	---	---	4.5	3.5	5.6	5.1
26	8.9	8.6	6.6	5.6	4.0	2.8	---	---	5.1	3.5	5.6	4.7
27	9.1	8.9	7.3	5.4	6.4	3.6	5.9	3.5	5.2	3.9	5.4	4.5
28	9.5	9.2	6.4	5.2	5.9	3.5	3.9	2.9	4.8	3.9	5.5	4.8
29	9.4	9.2	7.2	4.9	4.9	3.5	4.2	3.5	5.1	4.1	6.0	4.9
30	9.3	9.1	8.3	5.2	6.4	4.2	4.8	3.6	5.9	3.5	6.0	5.7
31	---	---	7.3	5.0	---	---	5.0	3.1	5.3	3.7	---	---
MONTH	9.5	7.4	10.0	4.9	8.5	2.0	7.3	1.4	8.2	3.4	6.0	3.2

MOBILE RIVER BASIN

02397845 SPRING CREEK NEAR TRION, GA.

LOCATION.--Lat 34°35'04", long 85°21'55", Chattooga County, Hydrologic Unit 03150105, at bridge on State Highway 337, 1.0 mi (1.6 km) upstream from Chattooga River, 4.0 mi (6.4 km) northwest of Trion.

PERIOD OF RECORD.--July 1975 to June 1977 (discontinued).

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV 03...	1050	4.2	7.8	12.0	10.0	7.0
DEC 07...	1600	16	7.7	7.0	10.0	9.3
JAN 12...	1050	100	7.4	.0	4.0	11.8
FEB 15...	1105	14	7.8	2.0	7.5	11.4
MAR 22...	1130	103	7.5	11.5	9.5	10.4
APR 27...	0940	46	7.5	15.0	11.0	9.2
JUN 07...	0945	9.1	7.6	19.0	16.0	10.0

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)
NOV 03...	200	<5	2	.4	230
DEC 07...	137	20	9	.6	200
JAN 12...	70	<5	3	<.1	<30
FEB 15...	130	<5	5	.2	36
MAR 22...	72	5	10	.6	91
APR 27...	95	<5	8	.2	<60
JUN 07...	185	10	5	.5	390

DATE	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 03...	102	97	.43	<.02	<.02	<1.0
DEC 07...	66	60	.34	<.02	.02	1.0
JAN 12...	31	28	.34	<.02	<.02	1.0
FEB 15...	64	59	.50	<.02	<.02	<1.0
MAR 22...	33	29	.31	<.02	<.02	<1.0
APR 27...	44	41	.35	<.02	<.02	<1.0
JUN 07...	92	88	.60	<.02	<.02	<1.0

02398000 CHATTOOGA RIVER AT SUMMERVILLE, GA.

LOCATION.--Lat 34°28'03", long 85°20'19", Chattooga County, Hydrologic Unit 03150105, on left bank 600 ft (183 m) downstream from bridge on U.S. Highway 27, 1 mi (1.6 km) southeast of Summerville, and 4 mi (6.4 km) upstream from Raccoon Creek.

DRAINAGE AREA.--193 mi² (500 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1937 to current year.

GAGE.--Water-stage recorder. Datum of gage is 613.47 ft (186.99 m) above mean sea level (levels by Georgia Department of Transportation). Prior to Nov. 12, 1937, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--40 years, 354 ft³/s (10.0 m³/s), 24.91 in/yr (632.7 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,500 ft³/s (694 m³/s) Mar. 29, 1951, gage height, 21.0 ft (6.40 m); minimum daily, 38 ft³/s (1.08 m³/s) Oct. 17, 1937, Nov. 9, 1939.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft³/s (85.0 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)
Mar. 13	1200	7780 220	15.94 4.859	Apr. 5	1500	8250 234	16.14 4.919
Mar. 31	0200	*12500 354	17.66 5.383	Sept. 16	1500	3070 86.9	11.94 3.639

Minimum discharge, 76 ft³/s (2.15 m³/s) Sept. 3, gage height, 1.95 ft (0.594 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	113	155	289	193	556	1750	392	156	106	98	83
2	101	99	136	251	187	447	1150	323	151	110	95	83
3	98	94	127	244	183	385	3800	342	147	107	98	79
4	99	92	119	245	182	778	3070	323	141	104	98	80
5	99	89	114	250	181	885	6580	302	137	102	141	82
6	103	88	125	260	173	1340	2600	275	138	101	109	114
7	106	86	260	458	166	1230	1330	259	137	98	99	474
8	106	88	244	396	160	824	1040	263	133	95	109	707
9	104	95	185	605	158	652	852	244	132	100	104	242
10	100	98	163	1730	157	531	722	228	129	105	104	164
11	98	92	156	831	156	453	615	218	126	102	101	146
12	93	92	304	583	159	1280	523	211	126	97	96	137
13	93	90	390	457	169	6220	433	203	125	100	93	149
14	91	89	275	506	163	1980	385	196	122	96	98	321
15	88	95	323	591	156	1120	355	193	122	94	97	234
16	88	95	357	448	155	863	329	188	122	91	95	2290
17	87	92	276	363	152	685	306	181	121	97	106	885
18	89	89	235	336	150	571	290	176	120	96	104	528
19	87	89	210	301	149	458	287	171	121	90	99	395
20	88	89	273	278	145	452	271	169	120	90	92	458
21	86	88	358	260	147	434	256	164	128	90	90	318
22	86	88	279	242	144	813	321	176	121	90	91	257
23	84	86	248	230	142	601	914	183	117	91	90	223
24	86	85	224	233	964	499	864	192	138	88	88	199
25	113	84	245	233	669	430	564	183	121	98	87	196
26	129	87	589	228	448	384	431	199	113	244	86	735
27	102	99	420	236	775	354	365	176	119	113	84	853
28	93	152	340	235	782	347	328	171	112	101	84	495
29	89	298	291	218	---	495	302	227	108	99	86	367
30	97	210	252	204	---	5580	376	175	107	99	83	409
31	125	---	288	202	---	7490	---	162	---	97	84	---
TOTAL	3013	3131	7961	11943	7365	39137	31409	6865	3810	3191	2989	11703
MEAN	97.2	104	257	385	263	1262	1047	221	127	103	96.4	390
MAX	129	298	589	1730	964	7490	6580	392	156	244	141	2290
MTN	84	84	114	202	142	347	256	162	107	88	83	79
CFSM	.50	.54	1.33	2.00	1.36	6.54	5.43	1.15	.66	.53	.50	2.02
IN.	.58	.60	1.53	2.30	1.42	7.54	6.05	1.32	.73	.62	.58	2.26

CAL YR 1976	TOTAL	129310	MEAN 353	MAX 5300	MIN 84	CFSM 1.83	IN 24.92
WTR YR 1977	TOTAL	132517	MEAN 363	MAX 7490	MIN 79	CFSM 1.88	IN 25.54

MOBILE RIVER BASIN

02398000 CHATTOOGA RIVER AT SUMMERVILLE, GA.--Continued

WATER-QUALITY RECORDS

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV						
03...	1200	94	8.4	14.5	10.0	8.2
DEC						
07...	1040	285	8.4	8.0	8.0	9.8
JAN						
12...	1200	572	8.4	1.0	3.0	11.7
FEB						
15...	1145	152	8.2	3.0	8.0	11.4
MAR						
22...	1310	850	7.7	11.5	11.0	10.0
APR						
27...	1040	366	7.9	15.0	12.5	9.6
JUN						
07...	1040	132	8.1	22.0	20.5	8.1
JUL						
19...	1140	91	8.0	33.0	24.0	5.9
AUG						
30...	1305	82	8.1	32.0	24.0	7.6
SEP						
26...	1745	1250	7.6	27.0	22.5	8.6

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV											
03...	558	20	2	1.8	36	120	189	.32	.02	.56	6.0
DEC											
07...	362	20	8	2.1	930	111	138	.51	<.02	.42	23
JAN											
12...	175	10	14	1.2	150	60	74	.39	.02	.11	2.0
FEB											
15...	388	5	5	1.4	150	112	135	.62	<.02	.26	2.0
MAR											
22...	178	40	32	1.8	4300	65	72	.47	.03	.12	4.0
APR											
27...	230	5	11	.6	930	80	92	.45	<.02	.13	2.0
JUN											
07...	458	10	9	1.2	430	114	158	.91	<.02	.30	1.0
JUL											
19...	630	--	10	2.9	430	120	--	.84	.16	.54	8.0
AUG											
30...	574	--	10	.9	7500	118	--	1.3	.03	.16	5.0
SEP											
26...	228	--	104	3.1	93000	82	--	.30	.12	.35	11

02398037 CHATTOOGA RIVER AT CHATTOOGAVILLE, GA.

LOCATION.--Lat 34°20'08", long 85°26'43", Chattooga County, Hydrologic Unit 03150105, at bridge on Holland-Chattoogaville Road, 0.4 mi (0.6 km) downstream from Hinton Creek, and 0.7 mi (1.1 km) south of Chattoogaville.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA. WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV						
03...	1250	150	8.1	15.0	9.0	9.2
DEC						
08...	1015	400	8.2	.0	7.0	8.7
JAN						
12...	1245	864	7.8	5.0	3.0	11.6
FEB						
15...	1230	202	8.1	5.5	8.0	11.3
MAR						
22...	1400	1550	7.8	10.5	11.0	9.2
APR						
27...	1145	515	7.8	18.0	14.0	8.7
MAY						
17...	0825	242	7.9	25.5	17.5	7.7
JUN						
07...	1115	190	8.0	20.0	21.0	8.0
JUL						
19...	1225	145	7.9	33.5	25.0	6.2
AUG						
30...	1400	121	7.6	33.5	25.0	6.1
SEP						
27...	1500	1240	7.5	28.0	22.5	8.0

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV												
03...	369	10	3	1.0	36	118	145	--	.35	.02	.37	3.0
DEC												
08...	360	15	12	2.0	4300	105	136	--	.51	.06	.42	4.0
JAN												
12...	170	20	18	1.0	930	64	67	--	.38	.03	.13	3.0
FEB												
15...	303	5	6	1.0	<30	112	120	--	.44	.05	.21	1.0
MAR												
22...	187	40	36	1.9	4300	69	74	--	.42	.05	.16	5.0
APR												
27...	215	10	15	.8	230	81	85	--	.39	<.02	.13	5.0
MAY												
17...	269	<5	6	.8	210	110	118	--	.52	<.02	.19	3.0
JUN												
07...	303	15	7	1.0	430	114	128	--	.65	<.02	.20	<1.0
JUL												
19...	335	--	20	.6	90	108	--	--	.74	.02	.27	4.0
AUG												
30...	394	--	16	.9	150	118	--	22	.49	.05	.48	4.0
SEP												
27...	138	--	120	2.8	43000	50	--	114	.34	.03	.26	10

MOBILE RIVER BASIN

02411800 LITTLE RIVER NEAR BUCHANAN, GA.

LOCATION.--Lat 33°47'51", long 85°07'03", Haralson County, Hydrologic Unit 03150108, on right bank 150 ft (46 m) upstream from county highway bridge, 4.5 mi (7.2 km) east of Buchanan, and 7 mi (11.3 km) upstream from mouth.

DRAINAGE AREA.--18 mi² (47 km²), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 1,110 ft (338 m), from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--18 years, 34.0 ft³/s (0.963 m³/s), 25.65 in/yr (651.5 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,820 ft³/s (108 m³/s) Mar. 14, 1966, gage height, 12.58 ft (3.834 m), from rating curve extended above 2,300 ft³/s (65.1 m³/s) on basis of slope-area measurement at gage height, 12.47 ft (3.801 m); minimum, 1.6 ft³/s (0.045 m³/s) Oct. 5, 6, 1970.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft³/s (14.2 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. 9	2215	576	16.3	3.82	1.164	Apr. 5	0315	682	19.3	4.37	1.332
Mar. 12	2400	780	22.1	4.84	1.475	May 22	0100	788	22.3	4.92	1.500
Mar. 29	2130	*3190	90.3	11.91	3.630						

Minimum daily discharge, 3.3 ft³/s (0.094 m³/s) July 24.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	12	22	20	24	54	168	38	36	12	8.5	4.5
2	6.9	11	19	19	23	43	153	30	22	18	7.3	3.8
3	6.1	10	16	29	23	38	199	27	17	12	6.9	3.5
4	5.7	9.6	15	32	24	68	213	24	15	12	6.9	3.4
5	5.7	8.5	13	30	23	55	328	22	14	9.8	6.9	3.8
6	5.7	8.5	31	31	22	106	157	20	13	8.5	5.7	4.3
7	41	9.0	74	73	21	79	139	19	16	7.3	4.9	11
8	46	8.5	38	42	20	57	129	21	13	6.9	6.9	8.1
9	27	8.1	26	216	20	47	115	18	12	6.1	5.3	6.9
10	16	8.6	22	224	21	41	88	16	11	5.3	4.5	6.8
11	12	8.8	20	120	21	41	66	16	10	5.3	3.5	11
12	10	12	58	76	29	245	54	16	9.6	4.9	5.3	5.7
13	9.4	9.9	75	53	63	274	46	16	9.5	4.5	7.7	4.9
14	8.1	14	40	64	37	132	41	15	8.8	4.3	5.3	4.9
15	7.7	21	47	55	31	104	37	15	8.8	4.3	4.0	12
16	7.3	15	35	41	27	66	34	14	9.7	4.0	4.5	60
17	8.1	19	27	35	25	49	32	14	11	4.0	11	18
18	7.3	15	23	28	24	40	30	13	16	4.0	14	14
19	7.3	13	20	36	23	33	29	14	14	4.5	6.9	23
20	8.1	13	35	24	22	35	28	12	12	4.0	6.1	26
21	7.7	12	30	23	21	186	27	16	10	3.5	5.3	15
22	6.9	9.9	22	22	21	303	37	38	9.6	3.3	4.3	11
23	6.9	9.4	21	23	22	129	56	28	8.5	3.5	20	8.6
24	7.3	9.8	19	62	154	106	43	30	8.1	3.3	11	7.5
25	11	8.1	49	53	80	69	33	27	7.3	3.5	9.0	7.7
26	13	13	107	39	54	50	29	23	16	4.3	12	20
27	9.2	16	52	35	122	43	28	20	23	3.7	26	16
28	8.1	44	36	36	78	56	26	18	14	3.7	11	13
29	8.1	68	28	29	---	1220	25	17	11	14	7.6	10
30	13	32	23	27	---	835	35	15	9.9	12	6.5	12
31	17	---	25	26	---	249	---	30	---	8.5	5.3	---
TOTAL	361.3	456.7	1068	1623	1075	4853	2425	642	395.8	205.0	250.1	356.4
MEAN	11.7	15.2	34.5	52.4	38.4	157	80.8	20.7	13.2	6.61	8.07	11.9
MAX	46	68	107	224	154	1220	328	38	36	18	26	60
MIN	5.7	8.1	13	19	20	33	25	12	7.3	3.3	3.5	3.4
CFSM	.65	.84	1.92	2.91	2.13	8.72	4.49	1.15	.73	.37	.45	.66
IN.	.75	.94	2.21	3.35	2.22	10.03	5.01	1.33	.82	.42	.52	.74
CAL YR 1976	TOTAL	13722.3	MEAN	37.5	MAX	780	MIN	5.7	CFSM	2.08	IN	28.36
WTR YR 1977	TOTAL	13711.3	MEAN	37.6	MAX	1220	MIN	3.3	CFSM	2.09	IN	28.34

02411930 TALLAPOOSA RIVER BELOW TALLAPOOSA, GA.

LOCATION.--Lat 33°44'27", long 85°20'11", Haralson County, Hydrologic Unit 03150108, at bridge on U.S. Highway 78, 0.4 mi (0.6 km) upstream from Walker Creek, and 2.7 mi (4.3 km) west of Tallapoosa.

DRAINAGE AREA.--270 mi² (700 km²), approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT 04...	1325	99	7.0	21.5	17.0	9.0
NOV 10...	1020	124	7.0	14.0	6.0	11.2
DEC 13...	1130	718	6.7	6.0	7.5	10.0
JAN 17...	1445	448	7.1	-2.0	.0	12.6
FEB 22...	1120	265	6.9	7.0	10.0	11.0
MAY 23...	1000	570	6.9	23.0	19.0	7.7
JUN 20...	1340	250	6.8	32.0	24.5	7.2
JUL 25...	1350	42	6.9	30.5	26.5	6.9
AUG 24...	1215	126	6.9	34.0	25.0	7.5
SEP 20...	1135	223	7.1	27.0	27.0	7.0

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA+MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 04...	38	40	12	.5	230	12	12	.13	.03	.06	3.0
NOV 10...	39	35	6	.8	<61	28	14	.09	<.02	.03	3.0
DEC 13...	35	50	27	1.3	430	10	11	.05	<.02	.06	<1.0
JAN 17...	31	50	16	.8	36	9	10	.15	.03	.03	2.0
FEB 22...	32	5	8	.4	91	11	12	.09	<.02	.02	2.0
MAY 23...	32	20	18	.9	230	12	11	.16	<.02	.03	3.0
JUN 20...	35	60	31	.8	1900	8	12	.18	<.02	.05	2.2
JUL 25...	40	--	10	.6	430	--	--	.17	<.02	.04	1.0
AUG 24...	39	--	22	.8	3300	--	--	.30	<.02	.07	2.0
SEP 20...	41	--	42	.6	1200	--	--	.19	.02	.08	11

MOBILE RIVER BASIN

02413210 LITTLE TALLAPOOSA RIVER BELOW BOWDON, GA.

LOCATION.--Lat 33°29'34", long 85°16'45", Carroll County, Hydrologic Unit 03150108, at bridge on State Highway 100, 1.9 mi (3.1 km) upstream from Indian Creek, and 3.8 mi (6.1 km) southwest of Bowdon.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
OCT 04...	1230	70	6.8	26.0	17.0	5.4
NOV 10...	1105	122	7.0	14.5	6.5	10.1
DEC 13...	1305	805	6.6	9.0	8.0	9.1
JAN 17...	1355	447	6.8	-2.0	1.0	12.1
FEB 22...	1230	234	7.1	14.0	10.0	10.2
MAY 23...	1125	292	6.8	25.0	20.0	6.2
JUN 20...	1230	208	6.8	30.0	23.5	5.8
JUL 25...	1245	46	6.6	30.0	26.0	4.1
AUG 24...	1030	52	6.4	28.0	24.0	4.9
SEP 20...	1230	189	6.5	28.0	26.5	5.2

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT 04...	83	30	8	1.3	73	15	15	1.7	.64	.16	5.0
NOV 10...	69	40	7	.6	36	36	16	.71	.20	.11	4.0
DEC 13...	50	60	34	1.9	4300	12	13	.30	.07	.12	<1.0
JAN 17...	44	55	25	.9	430	10	11	.29	.12	.07	3.0
FEB 22...	48	5	10	.8	91	12	14	.35	.12	.08	3.0
MAY 23...	67	25	17	2.6	430	12	14	1.2	.14	.28	4.0
JUN 20...	70	80	24	2.2	230	15	14	.94	.11	.24	4.0
JUL 25...	109	--	9	1.1	40	--	--	2.0	.78	.30	4.0
AUG 24...	101	--	13	1.3	40	--	--	2.3	.23	.30	3.0
SEP 20...	54	--	260	3.5	9300	--	--	.69	.25	.41	11

LAKES AND RESERVOIRS IN MOBILE RIVER BASIN

02381400 CARTERS LAKE.--Lat 34°36'50", long 84°40'16", Murray County, Hydrologic Unit 03150102, at forebay of dam on Coosawattee River, 1.3 mi (2.1 km) upstream from Talking Rock Creek, 1.3 mi (2.1 km) east of Carters, 1.9 mi (3.1 km) upstream from Louisville and Nashville Railway bridge, and at mile 26.8 (43.1 km). DRAINAGE AREA, 376 mi² (974 km²). PERIOD OF RECORD, November 1974 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

Lake is formed by rolled rock-filled dam. Emergency spillway, crest elevation, 1,070 ft (326.14 m), is equipped with 5 taintor gates 42 ft (12.8 m) wide by 36.6 ft (11.2 m) high. There is one sluice 16.5 ft (5.0 m) in diameter. Storage began Nov. 12, 1974. Lake first reached minimum pool, elevation, 1,022 ft (311.51 m) Mar. 17, 1975. Power operation began July 19, 1975. Capacity at primary flood control pool elevation, 1,099 ft (334.98 m), 472,800 acre-ft (583 hm³). Capacity at maximum power pool elevation, 1,072 ft (326.75 m), 377,100 acre-ft (465 hm³). Dead storage below elevation 1,022 ft (311.51 m), 242,200 acre-ft (299 hm³). Lake is used for flood control and power. Capacity table and monthend elevations furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 396,500 acre-ft (489 hm³) July 6, 1976, elevation, 1,078.14 ft (328.617 m); minimum, after first filling, 356,900 acre-ft (440 hm³) Aug. 30, 1976, elevation, 1,065.85 ft (324.871 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 472,400 acre-ft (582 hm³) Apr. 8, elevation, 1,099.16 ft (335.024 m); minimum, 352,200 acre-ft (434 hm³) Oct. 22, elevation, 1,064.30 ft (324.399 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	1066.87	360100	-	-
Oct. 31.....	1066.80	359200	-900	-15
Nov. 30.....	1067.52	362100	+2900	+49
Dec. 31.....	1070.80	372400	+10300	+168
CAL YR 1976	-	-	+3200	+4
Jan. 31.....	1071.67	375200	+2800	+46
Feb. 28.....	1073.33	380600	+5400	+97
Mar. 31.....	1084.23	417300	+36700	+597
Apr. 30.....	1078.05	396200	-21100	-355
May 31.....	1072.63	378300	-17900	-291
June 30.....	1071.19	373700	-4600	-77
July 31.....	1072.55	378100	+4400	+72
Aug. 31.....	1069.47	368200	-9900	-161
Sept. 30.....	1073.68	381700	+13500	+227
WTR YR 1977	-	-	+21600	+30

02382400 CARTERS RE-REGULATION DAM.--Lat 34°36'15", long 84°41'29", Murray County, Hydrologic Unit 03150102, at afterbay of main dam, on Coosawattee River, 0.2 mi (0.3 km) downstream from Talking Rock Creek, 0.2 mi (0.3 km) upstream from Louisville and Nashville Railway bridge, 1.5 mi (2.4 km) downstream from main dam and at mile 25.3 (40.7 km). DRAINAGE AREA, 530 mi² (1,370 km²). PERIOD OF RECORD, July 1975 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

Reservoir is formed by concrete gravity dam with earth dikes on either side. Spillway, crest elevation, 662.5 ft (201.93 m) is equipped with 4 taintor gates 42 ft (12.8 m) wide by 36.5 ft (11.1 m) high, capacity at maximum storage pool elevation, 698 ft (212.8 m), 17,600 acre-ft (21.7 hm³). Dead storage, 290 acre-ft (0.36 hm³). The reservoir is used for storage and re-regulation of power releases from Carters main dam. Capacity table and monthend elevations furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 18,800 acre-ft (23.2 hm³) Apr. 14, 1977, elevation, 699.36 ft (213.165 m); minimum, 500 acre-ft (0.62 hm³) June 30, 1975, elevation, 666.12 ft (203.033 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 18,800 acre-ft (23.2 hm³) Apr. 14, elevation, 699.36 ft (213.165 m); minimum, 1,500 acre-ft (1.85 hm³) Oct. 22, elevation, 673.75 ft (205.359 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	680.60	4400	-	-
Oct. 31.....	677.71	2900	-1500	-24
Nov. 30.....	682.60	5800	+2900	+49
Dec. 31.....	682.80	5900	+100	+2
CAL YR 1976	-	-	-4500	-6
Jan. 31.....	680.29	4200	-1700	-28
Feb. 28.....	682.77	5900	+1700	+31
Mar. 31.....	692.30	12900	+7000	+114
Apr. 30.....	682.99	6100	-6800	-114
May 31.....	688.42	9400	+3800	+62
June 30.....	688.49	9900	0	0
July 31.....	685.85	8100	-1800	-29
Aug. 31.....	696.02	15900	+7800	+127
Sept. 30.....	679.55	3800	-12100	-203
WTR YR 1977	-	-	-600	-1

LAKES AND RESERVOIRS IN MOBILE RIVER BASIN--Continued

02393500 ALLATOONA RESERVOIR.--Lat 34°09'46", long 84°43'40", Bartow County, Hydrologic Unit 03150104, at forebay of dam on Etowah River, 2.8 mi (4.5 km) upstream from Nashville, Chattanooga, & St. Louis Railway bridge, 4 mi (6.4 km) east of Cartersville, and 6 mi (9.7 km) upstream from Pumpkinvine Creek. DRAINAGE AREA, 1,110 mi² (2,870 km²), approximately. PERIOD OF RECORD, December 1949 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

Lake is formed by concrete gravity dam. Spillway, crest elevation, 835.0 ft (254.51 m) is equipped with nine taintor gates 40 ft (12.2 m) wide by 25 ft (7.6 m) high. There are four sluices 5.67 ft (1.73 m) by 10 ft (3.05 m) high and one sluice 4.0 ft (1.22 m) in diameter. Storage began Dec. 27, 1949; water in lake first reached minimum pool elevation Feb. 5, 1950. Total capacity at elevation 860.0 ft (262.13 m), top of gates, is 670,000 acre-ft (826 hm³), of which 587,100 acre-ft (724 hm³) is controlled storage above 800 ft (243.84 m), minimum pool. Lake is used for flood control and power. Records furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 693,800 acre-ft (855 hm³) Apr. 10, 1964, elevation, 861.19 ft (262.491 m); minimum, 119,600 acre-ft (147 hm³) Dec. 4, 1954, elevation, 809.34 ft (246.69 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 623,600 acre-ft (769 hm³) Apr. 11, elevation, 857.50 ft (261.366 m); minimum, 211,400 acre-ft (261 hm³) Jan. 21, elevation, 824.12 ft (251.192 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	832.86	289500	-	-
Oct. 31.....	831.12	272400	-17100	-278
Nov. 30.....	826.28	229000	-43400	-729
Dec. 31.....	825.44	222000	-7000	-114
CAL YR 1976	-	-	+12700	+18
Jan. 31.....	826.03	226900	+4900	+80
Feb. 28.....	830.04	262200	+35300	+636
Mar. 31.....	847.55	465200	+203000	+3301
Apr. 30.....	846.52	450900	-14300	-240
May 31.....	841.24	382400	-68500	-1114
June 30.....	840.13	369000	-13400	-225
July 31.....	837.83	342400	-26600	-433
Aug. 31.....	835.05	312000	-30400	-494
Sept. 30.....	823.04	291300	-20700	-348
WTR YR 1977	-	-	+1800	+2

03545000 HIWASSEE RIVER AT PRESLEY, GA.

LOCATION.--Lat 34°54'17", long 83°42'01", Towns County, Hydrologic Unit 06020002, on left bank 0.1 mi (0.2 km) downstream from Cynth Creek, 0.5 mi (0.8 km) southeast of Presley, 1.4 mi (2.3 km) upstream from Hightower Creek, and at mile 133.9 (215.4 km).

DRAINAGE AREA.--45.5 mi² (118 km²).

PERIOD OF RECORD.--October 1941 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 973: 1942. WSP 1910: 1957-58, 1959-60(P).

GAGE.--Water-stage recorder. Datum of gage is 1,932.69 ft (589.08 m) above mean sea level.

REMARKS.--Records good. Records of chemical analyses for the water years 1969-74 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--36 years, 139 ft³/s (3.94 m³/s), 41.49 in/yr (1,053.8 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,700 ft³/s (161 m³/s) Mar. 11, 1952, gage height, 15.24 ft (4.645 m), from rating curve extended above 3,000 ft³/s (85.0 m³/s) on basis of slope-area and contracted-opening measurements at gage heights 12.80 and 15.24 ft (3.901 and 4.645 m), respectively; minimum, 15 ft³/s (0.42 m³/s) Dec. 16, 1958, gage-height, 1.48 ft (0.451 m), result of a freezeup; minimum daily, 23 ft³/s (0.65 m³/s) Sept. 29, Oct. 5, 6, 8, 10-13, 1954, Sept. 7, 1957.

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)
Mar. 12	2200	*2890 81.8	9.97 3.039	Apr. 4	2145	1470 41.6	6.21 1.893
Mar. 30	0145	2700 76.5	9.51 2.899				

Minimum discharge, 33 ft³/s (0.95 m³/s) Sept. 3-6, gage height, 1.26 ft (0.384 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	115	115	126	89	123	557	178	121	92	48	38
2	60	100	101	119	86	109	452	231	113	92	46	37
3	57	94	93	121	81	101	598	289	108	72	47	35
4	54	87	87	118	82	196	663	377	101	69	46	35
5	53	81	83	117	79	185	947	282	98	67	44	36
6	56	78	111	129	79	250	602	243	111	66	43	37
7	224	75	186	167	77	234	487	224	104	63	42	135
8	199	72	148	146	76	188	421	206	94	61	46	123
9	358	72	126	157	75	163	374	190	91	71	53	74
10	188	70	114	167	73	148	338	179	89	67	45	56
11	137	72	109	151	73	146	313	169	88	62	42	49
12	112	88	151	135	88	997	295	163	110	60	35	44
13	98	73	139	127	120	1280	281	157	88	59	41	88
14	90	75	127	152	87	516	268	153	99	57	45	122
15	83	78	209	152	84	361	259	147	90	55	54	166
16	79	74	193	140	79	294	245	142	89	53	55	220
17	76	72	165	135	76	254	232	139	85	69	51	181
18	73	70	146	130	76	231	227	141	86	61	58	129
19	70	69	133	125	75	207	222	136	83	55	49	113
20	71	69	195	120	74	211	208	158	82	53	44	98
21	65	67	184	110	71	219	200	144	79	51	43	83
22	63	65	159	105	71	264	201	164	81	53	42	73
23	61	64	146	99	71	225	321	143	89	52	45	67
24	66	64	133	101	178	202	301	135	77	49	62	64
25	108	63	139	97	117	185	253	150	73	60	49	61
26	94	64	161	95	103	173	229	150	80	61	45	63
27	81	71	141	96	151	164	212	156	81	51	53	61
28	75	126	133	95	144	180	200	151	72	51	47	57
29	72	201	124	92	---	494	188	147	71	56	43	54
30	103	140	120	88	---	1690	180	136	69	55	40	57
31	148	---	146	87	---	841	---	127	---	50	39	---
TOTAL	3136	2509	4317	3799	2535	10831	10274	5507	2702	1893	1442	2456
MEAN	101	83.6	139	123	90.5	349	342	178	90.1	61.1	46.5	81.9
MAX	358	201	209	167	178	1690	947	377	121	92	62	220
MIN	53	63	83	87	71	101	180	127	69	49	35	35
CFSM	2.22	1.84	3.06	2.70	1.99	7.67	7.52	3.91	1.98	1.34	1.02	1.80
IN.	2.56	2.05	3.53	3.11	2.07	8.86	8.40	4.50	2.21	1.55	1.18	2.01
CAL YR 1976	TOTAL	62815	MEAN 172	MAX 1860	MIN 46	CFSM 3.78	IN 51.36					
WTR YR 1977	TOTAL	51401	MEAN 141	MAX 1690	MIN 35	CFSM 3.10	IN 42.02					

TENNESSEE RIVER BASIN

03550500 NOTTELY RIVER NEAR BLAIRSVILLE, GA.

LOCATION.--Lat 34°50'28", long 83°56'10", Union County, Hydrologic Unit 06020002, on left bank 250 ft (76 m) upstream from county road bridge, 0.1 mi (0.2 km) downstream from Arkaqua Creek, 0.2 mi (0.3 km) upstream from Akins Creek, 2.7 mi (4.3 km) southeast of Blairsville, and at mile 44.3 (71.3 km).

DRAINAGE AREA.--74.8 mi² (194 km²).

PERIOD OF RECORD.--January 1942 to current year.

REVISED RECORDS.--WSP 1053: 1942(M), 1943. WSP 1236: 1946(M), 1950(M).

GAGE.--Water-stage recorder. Datum of gage is 1,812.47 ft (552.44 m) above mean sea level.

REMARKS.--Records good. Occasional regulation by Lake Trahlyta in Vogel State Park.

AVERAGE DISCHARGE.--35 years, 188 ft³/s (5.32 m³/s), 34.13 in/yr (866.9 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,900 ft³/s (365 m³/s) Aug. 23, 1967, gage height, 21.04 ft (6.413 m), from floodmark, from rating curve extended above 3,400 ft³/s (96.3 m³/s) on basis of contracted-opening measurements at gage heights 13.29 ft (4.051 m), 16.78 ft (5.115 m), and 21.04 ft (6.413 m); minimum, 27 ft³/s (0.76 m³/s) Sept. 8, Oct. 7, 1947, gage height, 1.77 ft (0.539 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s (56.6 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)
Mar. 12	2300	5070 144	12.62 3.847	Apr. 4	2200	3940 112	10.32 3.146
Mar. 30	0315	*5260 149	12.93 3.941				

Minimum discharge, 47 ft³/s (1.33 m³/s) Sept. 3, 4, gage height, 1.98 ft (0.604 m).

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	175	166	196	127	194	888	253	183	134	66	56
2	88	168	148	185	127	171	644	279	165	131	63	54
3	84	157	135	187	120	159	996	442	153	102	63	51
4	80	146	127	181	121	288	1260	591	146	97	62	50
5	78	137	120	177	118	264	1620	394	140	93	60	52
6	86	130	152	196	113	414	919	330	155	89	59	79
7	254	124	250	267	112	356	702	300	149	84	59	265
8	298	115	199	221	111	286	591	279	134	80	62	220
9	481	106	172	295	109	248	513	259	128	89	83	142
10	221	100	160	353	108	224	457	245	123	86	64	109
11	165	96	152	271	109	214	416	233	122	78	60	86
12	139	138	234	235	123	1610	386	223	136	78	56	73
13	125	106	213	213	181	1980	362	214	119	76	70	260
14	114	107	188	251	130	837	344	205	174	71	78	257
15	106	112	362	244	125	616	327	198	129	70	73	199
16	102	106	322	220	117	423	311	189	124	68	91	261
17	100	102	265	200	112	355	298	188	124	131	95	270
18	96	99	235	190	113	322	298	203	137	86	102	199
19	91	98	211	180	111	292	302	192	124	72	75	161
20	104	99	317	170	110	313	278	205	126	68	67	138
21	94	96	290	165	106	339	267	190	118	66	64	115
22	89	91	246	158	105	406	265	190	120	128	62	103
23	87	89	222	152	106	328	521	206	173	78	69	94
24	95	89	202	156	287	297	558	191	117	70	108	89
25	166	88	211	149	183	276	380	209	109	92	78	84
26	156	89	248	145	160	258	327	207	122	109	66	92
27	125	110	208	149	252	244	300	201	112	74	90	91
28	114	169	194	146	234	270	281	196	106	70	72	83
29	107	303	180	140	---	921	267	212	98	76	63	76
30	154	202	172	135	---	3620	258	192	97	78	59	80
31	223	---	245	130	---	1500	---	196	---	70	59	---
TOTAL	4318	3747	6546	6057	3830	18025	15336	7612	3963	2694	2198	3889
MEAN	139	125	211	195	137	581	511	246	132	86.9	70.9	130
MAX	481	303	362	353	287	3620	1620	591	183	134	108	270
MIN	78	88	120	130	105	159	258	188	97	66	56	50
CFSM	1.86	1.67	2.82	2.61	1.83	7.77	6.83	3.29	1.77	1.16	.95	1.74
IN.	2.15	1.86	3.26	3.01	1.90	8.96	7.63	3.79	1.97	1.34	1.09	1.93

CAL YR 1976	TOTAL	91366	MEAN 250	MAX 3730	MIN 68	CFSM 3.34	IN 45.44
WTR YR 1977	TOTAL	78215	MEAN 214	MAX 3620	MIN 50	CFSM 2.86	IN 38.90

TENNESSEE RIVER BASIN

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03558000 TOCCOA RIVER NEAR DIAL, GA.

LOCATION.--Lat 34°47'24", long 84°14'24", Fannin County, Hydrologic Unit 06020003, on right bank 1.4 mi (2.3 km) upstream from Shallowford Bridge, 1.8 mi (2.9 km) upstream from Stanley Creek, 2.5 mi (4.0 km) northwest of Dial, and at mile 69.1 (111.2 km).

DRAINAGE AREA.--177 mi² (458 km²).

PERIOD OF RECORD.--October 1912 to current year. Prior to January 1913 monthly discharges only, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area. WSP 1386: 1923(M), 1924, 1927(M), 1929-32(M), 1933, 1934(M), 1944(M).

GAGE.--Water-stage recorder. Datum of gage is 1,792.08 ft (546.23 m) above mean sea level. Prior to Oct. 1, 1927, water-stage recorder and Oct. 1, 1927 to Nov. 16, 1928, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--65 years, 497 ft³/s (14.1 m³/s), 38.13 in/yr (968.5 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,700 ft³/s (416 m³/s), Aug. 23, 1967, gage height, 13.73 ft (4.185 m), from rating curve extended above 5,000 ft³/s (142 m³/s) on basis of slope-area measurement at gage height 11.20 ft (3.414 m), and a contracted-opening measurement at 13.73 ft (4.185 m); minimum, 60 ft³/s (1.70 m³/s) Sept. 6, 1925, gage height, 0.40 ft (0.122 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of November 1906 reached a stage of 18.5 ft (5.64 m) and is highest known since about 1840, from reports of Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,400 ft³/s (68.0 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)
Mar. 13	0115	6000 170	8.02 2.444	Apr. 5	0130	5840 165	7.90 2.408
Mar. 30	1630	*8400 238	9.73 2.966				

Minimum daily discharge, 163 ft³/s (4.62 m³/s) Sept. 4.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	238	361	322	479	357	480	1910	739	470	341	220	170
2	222	318	304	460	367	436	1570	798	451	427	211	168
3	214	297	283	458	361	412	2120	969	434	317	208	166
4	209	283	271	444	358	586	2370	1010	418	299	205	163
5	205	273	265	449	354	559	3750	870	402	292	199	168
6	217	265	332	456	334	793	2130	795	398	285	190	176
7	503	262	537	599	333	711	1750	752	396	276	193	546
8	523	254	390	501	330	592	1560	729	375	268	241	474
9	630	250	342	632	331	533	1400	695	368	263	300	336
10	378	250	325	840	327	500	1300	666	361	307	241	253
11	314	255	318	607	328	485	1230	647	357	263	208	238
12	287	359	482	559	376	1770	1160	632	358	258	196	202
13	273	279	430	506	484	3640	1120	616	350	257	193	328
14	263	273	390	599	376	1450	1080	604	405	247	208	434
15	253	284	627	595	357	1110	1050	593	370	244	241	446
16	250	270	609	528	340	968	997	578	397	241	250	418
17	250	260	502	520	328	862	955	563	400	238	244	578
18	243	253	456	510	331	810	922	554	459	235	241	418
19	239	250	419	500	327	770	924	555	411	229	214	332
20	264	250	713	490	323	805	878	550	371	223	196	318
21	254	247	665	480	316	804	840	558	361	217	188	277
22	239	238	525	460	313	1050	822	541	350	232	190	256
23	235	238	479	441	314	840	1200	568	396	232	193	250
24	243	235	443	431	683	783	1370	546	349	214	248	238
25	401	238	466	415	462	750	1010	551	329	223	213	250
26	424	250	584	398	406	720	939	614	336	364	197	294
27	308	318	478	403	654	695	867	607	329	241	201	277
28	278	430	452	403	580	683	799	545	342	223	192	262
29	265	654	430	390	---	1350	764	545	341	238	184	238
30	325	402	416	380	---	6150	744	561	314	250	176	259
31	505	---	605	375	---	3160	---	501	---	238	173	---
TOTAL	9452	8796	13860	15308	10750	35257	39531	20052	11398	8182	6554	8933
MEAN	305	293	447	494	384	1137	1318	647	380	264	211	298
MAX	630	654	713	840	683	6150	3750	1010	470	427	300	578
MIN	205	235	265	375	313	412	744	501	314	214	173	163
CFSM	1.72	1.66	2.53	2.79	2.17	6.42	7.45	3.66	2.15	1.49	1.19	1.68
IN.	1.99	1.85	2.91	3.22	2.26	7.41	8.31	4.21	2.40	1.72	1.38	1.88

CAL YR 1976	TOTAL	237463	MEAN	649	MAX	4420	MIN	205	CFSM	3.67	IN	49.91
WTR YR 1977	TOTAL	188073	MEAN	515	MAX	6150	MIN	163	CFSM	2.91	IN	39.53

TENNESSEE RIVER BASIN

03566800 SOUTH CHICKAMAUGA CREEK AT GRAYSVILLE, GA.

LOCATION.--Lat 34°58'39", long 85°08'42", Catoosa County, Hydrologic Unit 06020001, at bridge on Graysville Road at Graysville, 200 ft (61 m) above dam at Swanson Mill, and 19.5 mi (31.4 km) above mouth.

DRAINAGE AREA.--198 mi² (513 km²).

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV 03...	0900	146	8.0	5.5	8.0	8.8
DEC 07...	1430	540	7.5	9.5	6.5	10.6
JAN 12...	0900	444	7.6	-9.5	1.0	12.6
FEB 15...	0930	152	8.1	.5	6.5	11.0
MAR 22...	0920	342	7.7	5.0	11.0	9.5
APR 27...	0750	256	7.7	9.0	12.0	8.5
JUN 07...	0800	100	7.8	15.5	20.0	7.8
JUL 19...	0920	81	7.7	29.0	24.0	6.9
AUG 30...	1000	84	8.0	28.5	24.0	6.8
SEP 26...	1545	392	7.5	28.0	22.5	7.3

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA+MG) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 03...	237	30	9	.8	430	119	103	.17	.02	.06	3.0
DEC 07...	186	30	46	2.4	4300	89	74	.30	<.02	.18	34
JAN 12...	123	10	16	.4	430	56	48	.51	<.02	.04	2.0
FEB 15...	232	5	6	.9	150	116	102	.15	<.02	.02	<1.0
MAR 22...	171	10	15	.6	4300	84	74	.54	.02	.03	1.0
APR 27...	164	10	15	.3	4300	57	69	.42	<.02	.04	4.0
JUN 07...	250	10	8	.4	2300	126	116	.36	<.02	.03	<1.0
JUL 19...	258	--	18	1.1	430	134	--	.37	<.02	.05	2.0
AUG 30...	268	--	15	.6	430	132	--	.42	.05	.78	5.0
SEP 26...	201	--	112	1.9	59000	94	--	.72	.05	.25	8.0

03567340 WEST CHICKAMAUGA CREEK NEAR LAKEVIEW, GA.

LOCATION.--Lat 34°57'26", long 85°12'20", Catoosa County, Hydrologic Unit 06020001, at Dyer Bridge on Cloud Springs Road, 3 mi (4.8 km) southeast of Lakeview.

DRAINAGE AREA.--148 mi² (383 km²).

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	PH (UNITS)	AIR TEMPER- ATURE (DEG C)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)
NOV 03...	0940	74	7.8	5.5	8.0	7.1
DEC 07...	1440	552	7.8	7.5	9.0	8.2
JAN 12...	0930	583	7.6	-5.0	2.5	11.8
FEB 15...	0900	101	7.9	-5	6.5	9.6
MAR 22...	1000	358	7.9	7.0	11.0	8.4
APR 27...	0820	188	7.6	10.0	13.0	7.0
MAY 16...	1350	85	7.4	29.0	18.0	5.2
JUN 07...	0830	75	8.0	16.5	20.0	5.5
JUL 19...	0955	61	7.4	29.5	24.0	3.5
AUG 30...	1100	50	7.8	32.5	23.5	3.9
SEP 26...	1600	188	7.6	30.0	21.5	6.0

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI- FORM (EC BROTH) (MPN)	HARD- NESS (CA, MG) (MG/L)	ALKA- LILITY AS CACO3 (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV 03...	289	20	4	.8	91	136	134	--	.43	.02	.21	3.0
DEC 07...	281	40	24	2.4	9300	133	121	--	1.4	.10	.33	34
JAN 12...	186	10	27	1.4	2300	84	79	--	.54	.03	.13	5.0
FEB 15...	285	5	11	1.8	2300	132	126	--	.44	.05	.18	<1.0
MAR 22...	220	5	20	.5	1500	105	98	--	.69	.04	.07	1.0
APR 27...	256	15	17	1.4	2300	134	111	--	.67	.02	.15	3.0
MAY 16...	266	5	8	1.4	91	128	125	--	.59	.03	.19	2.0
JUN 07...	273	10	10	1.2	4300	123	128	--	.60	<.02	.22	1.0
JUL 19...	304	--	16	1.3	750	129	--	22	.35	.18	.51	5.0
AUG 30...	352	--	12	.7	230	128	--	10	.36	<.02	.05	1.0
SEP 26...	270	--	23	1.1	4300	122	--	29	1.2	.02	.22	4.0

TENNESSEE RIVER BASIN

LAKES IN TENNESSEE RIVER BASIN

03553000 NOTTELY LAKE.--Lat 34°57'29", long 84°05'22", Union County, Hydrologic Unit 06020002, at dam on Nottely River, 1.3 mi (2.1 km) upstream from Dooley Creek, 1.7 mi (2.7 km) southwest of Ivylog, 2.5 mi (4.0 km) upstream from Georgia-North Carolina State line, and at mile 21.0 (33.8 km). DRAINAGE AREA, 214 mi² (554 km²). PERIOD OF RECORD, January 1942 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level.

Lake is formed by rock and rolled earthfill dam with side channel spillway equipped with flashboards. Storage began Jan. 24, 1942; water in lake first reached minimum pool elevation Jan. 26, 1942. Total capacity at elevation 1,780.00 ft (542.54 m), top of flashboards, is 87,900 ft³/s-days (215.1 hm³), of which 81,500 ft³/s-days (199.4 hm³) is controlled storage above elevation 1,690.00 ft (515.11 m), minimum pool. Lake is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 94,100 ft³/s-days (230.3 hm³) Apr. 20, 1943, elevation, 1,780.50 ft (542.696 m); maximum elevation, 1,781.47 ft (542.992 m) May 28, 1973; minimum (after first filling), 200 ft³/s-days (0.489 hm³) Oct. 6, 1947, elevation, 1,638.6 ft (499.44 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 81,900 ft³/s-days (200 hm³) May 4, elevation, 1,777.04 ft (541.642 m); minimum, 32,700 ft³/s-days (80.0 hm³) Feb. 17, elevation, 1,739.79 ft (530.288 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (cfs-days)	Change in contents	
			(cfs-days)	(equivalent in cubic feet per second)
Sept. 30.....	1755.18	48200	-	-
Oct. 31.....	1752.23	44800	-3400	-110
Nov. 30.....	1746.09	38500	-6300	-210
Dec. 31.....	1746.06	38400	-100	-3
CAL YR 1976	-	-	+600	+2
Jan. 31.....	1742.69	35300	-3100	-100
Feb. 28.....	1742.24	34900	-400	-14
Mar. 31.....	1765.12	61300	+26400	+852
Apr. 30.....	1776.18	80100	+18800	+627
May 31.....	1776.18	80100	0	0
June 30.....	1774.61	77000	-3100	-103
July 31.....	1768.59	66600	-10400	-335
Aug. 31.....	1761.23	55800	-10800	-348
Sept. 30.....	1753.80	46600	-9200	-307
WTR YR 1977	-	-	-1600	-4

03558500 BLUE RIDGE LAKE.--Lat 34°52'52", long 84°16'49", Fannin County, Hydrologic Unit 06020003, 400 ft (122 m) upstream from Blue Ridge Dam on Toccoa River, 2.5 mi (4.0 km) northeast of Blue Ridge, and at mile 53.0 (85.3 km). DRAINAGE AREA, 232 mi² (601 km²). PERIOD OF RECORD, December 1930 to current year (prior to Aug. 16, 1939, only midnight readings available). GAGE, water-stage recorder. Datum of gage is at sea level, Tennessee Electric Power Co. datum; to convert to datum of 1929, subtract 0.18 ft (0.055 m) from elevations given herein.

Lake is formed by earth dam. Spillway equipped with five taintor gates 15 ft (4.57 m) high by 22 ft (6.71 m) wide. Dam completed and storage began Dec. 6, 1930. Total capacity at elevation 1,691.00 ft (515.42 m) (top of gates) is 98,800 ft³/s-days (241.8 hm³), of which 92,800 ft³/s-days (227.1 hm³) is controlled storage above 1,590.00 ft (484.63 m), minimum pool. Lake is used for power and recreation. Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD: Maximum contents recorded, 102,100 ft³/s-days (249.8 hm³) Feb. 11, 1946, elevation, 1,691.54 ft (515.581 m); minimum (after first filling), 6,500 ft³/s-days (15.91 hm³) Jan. 16, 1956, elevation, 1,587.75 ft (483.95 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 96,400 ft³/s-days (236 hm³) Apr. 26, elevation, 1,689.38 ft (514.923 m) minimum, 26,000 ft³/s-days (63.6 hm³) Nov. 15, elevation, 1,629.85 ft (496.778 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

Date	Elevation (feet)	Contents (cfs-days)	Change in contents	
			(cfs-days)	(equivalent in cubic feet per second)
Sept. 30.....	1664.22	59400	-	-
Oct. 31.....	1644.66	38300	-21100	-681
Nov. 30.....	1635.92	30600	-7700	-257
Dec. 31.....	1650.51	44100	+13500	+435
CAL YR 1976	-	-	-10300	-28
Jan. 31.....	1650.03	43600	-500	-16
Feb. 28.....	1649.91	43500	-100	-4
Mar. 31.....	1679.77	80800	+37300	+1203
Apr. 30.....	1688.05	94300	+13500	+450
May 31.....	1686.55	91900	-2400	-77
June 30.....	1683.80	87300	-4600	-153
July 31.....	1677.70	77700	-9600	-310
Aug. 31.....	1672.33	70000	-7700	-248
Sept. 30.....	1668.59	65000	-5000	-167
WTR YR 1977	-	-	+5600	+15

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain, but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations

						Annual maximum	
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
Savannah River basin							
02191280	Mill Shoal Creek near Royston, Ga.	Lat 34°16'13", long 83°06'08", Hart County, Hydrologic Unit 03060103, at culvert on State Highway 17, 1.2 miles southeast of Royston.	0.32	1964-77	8-18-77	2.69	45
*02191300	Broad River above Carlton, Ga. <u>h</u>	Lat 34°04'24", long 83°00'12", Madison-Elbert County line, Hydrologic Unit 03060104, at State Highway 72, 2.8 miles northeast of Carlton.	760	1898-1912, 1913-18g, 1920-77g	3-31-77	18.35	11,700
02191930	Buffalo Creek near Lexington, Ga.	Lat 33°46'40", long 83°03'01", Oglethorpe County, Hydrologic Unit 03060104, at culvert on State Highway 22, 7 miles southeast of Lexington.	5.80	1964-77	3-22-77	4.54	296
02192300	Hog Fork Fishing Creek tributary near Tignall, Ga.	Lat 33°49'05", long 82°45'21", Wilkes County, Hydrologic Unit 03060104, at culvert on State Highway 17, 4.2 miles south of Tignall.	.097	1959-77	3-13-77	7.36	46
02197190	McBean Creek near McBean, Ga.	Lat 33°14'12", long 82°02'38", Richmond-Burke County line, Hydrologic Unit 03060106, at State Highway 21, 5.5 miles west of McBean.	41.4	1963-77	3-13-77	4.11	249
Ogeechee River basin							
02200930	Ogeechee River tributary near Louisville, Ga.	Lat 32°55'20", long 82°18'49", Jefferson County, Hydrologic Unit 03060201, at culvert on State Highway 17, 8.5 miles southeast of Louisville.	14.2	1965-77	3-21-77	4.68	308
02200950	Ogeechee River near Wadley, Ga.	Lat 32°52'11", long 82°19'11", Jefferson County, Hydrologic Unit 03060201, at bridge on State Highway 78, 4.5 miles east of Wadley.	a990	1970-77	4-3-70 3-7-71 1-18-72 4-10-73 4-12-74 4-14-75 3-19-76 3-26-77	11.70 16.25 12.22 12.06 11.88 12.41 11.81 11.79	5,100 24,200 8,660 8,180 5,460 9,230 7,540 7,500
02201350	Buckhead Creek near Waynesboro, Ga.	Lat 32°58'21", long 82°07'15", Burke County, Hydrologic Unit 03060201, at State Highway 56, 10 miles southwest of Waynesboro.	a64	1963-77	3-21-77	6.12	816
02201800	Richardson Creek near Millen, Ga.	Lat 32°43'23", long 81°58'35", Jenkins County, Hydrologic Unit 03060202, at State Highway 67, 6 miles south of Millen.	a43	1963-77	10-9-76	4.14	480
02202000	Ogeechee River at Scarboro, Ga.	Lat 32°42'38", long 81°52'46", Jenkins County, Hydrologic Unit 03060202, at abandoned highway bridge at Scarboro, and 7.5 miles southeast of Millen.	a1,940	1938-71†, 1972-76	3-26-77	9.96	11,500
02202900	Fifteen Mile Creek near Metter, Ga.	Lat 32°23'33", long 82°00'55", Candler County, Hydrologic Unit 03060203, at State Highway 46, 2.5 miles east of Metter.	147	1963-77	3-4-77	5.28	1,090

* Also a low-flow partial-record station.

† Operated as a continuous-record gaging station.

a Approximately.

g Maximum gage heights computed from graph based on gage readings.

h Published as near Carlton prior to 1918.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Crest-stage partial-record stations--Continued							
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum	
						Gage height (feet)	Dis-charge (ft ³ /s)
Altamaha River basin							
02202910	Ten Mile Creek tributary at Pulaski, Ga.	Lat 32°23'18", long 81°58'17", Candler County, Hydrologic Unit 03060203, at culvert on State Highway 46, 0.8 mile west of Pulaski.	1.14	1965-77	3-4-77	3.99	107
02203600	South River at East Point, Ga.	Lat 33°40'50", long 84°25'15", Fulton County, Hydrologic Unit 03070103, at culvert on Harland Drive at East Point.	1.49	1964-69†, 1970-73, 1976-77	8-21-77	8.05	571
02203800	South River at Atlanta, Ga.	Lat 33°40'46", long 84°18'30", DeKalb County, Hydrologic Unit 03070103, at Bouldercrest Drive at Atlanta.	41.5	1951-77	8-21-77	5.90	1,720
02203820	Sugar Creek near Atlanta, Ga.	Lat 33°41'41", long 84°18'15", DeKalb County, Hydrologic Unit 03070103, at culvert on Clifton Church Road near Atlanta.	8.67	1961, 1963-65, 1974-77	8-27-77	6.28	486
02203835	Shoal Creek near Atlanta, Ga.	Lat 33°44'48", long 84°16'50", DeKalb County, Hydrologic Unit 03070103, at culvert on Line Street near Atlanta.	3.43	1974-77	3-21-77	2.55	325
02203845	Shoal Creek tributary near Atlanta, Ga.	Lat 33°43'05", long 84°15'45", DeKalb County, Hydrologic Unit 03070103, at culvert on Glendale Drive near Atlanta.	0.84	1974-77	5-26-77	3.02	176
02203870	Cobbs Creek near Atlanta, Ga.	Lat 33°43'44", long 84°14'17", DeKalb County, Hydrologic Unit 03070103, at culvert on Snapfinger Road near Atlanta.	3.68	1963-66, 1974-77	3-21-77	3.39	268
02203884	Conley Creek near Forest Park, Ga.	Lat 33°38'08", long 84°20'37", Clayton County, Hydrologic Unit 03070103, at culvert on Rock Cut Road near Forest Park.	1.88	1974-77	8-26-77	4.66	417
02203900	South River near Atlanta, Ga.	Lat 33°39'58", long 84°13'29", DeKalb County, Hydrologic Unit 03070103, on Flakes Mill Road, 8 miles east of Atlanta city limits.	a99	1951-77	1-9-77	9.04	3,180
02206500	Yellow River near Snellville, Ga.	Lat 33°51'11", long 84°04'45", Gwinnett County, Hydrologic Unit 03070103, on left bank at downstream side of county highway bridge 3.2 mi (5.1 km) west of Snellville.	134	1943-71†, 1973-76	12-31-73, 3-14-75, 3-17-76	13.54, 17.63, 16.72	4,370, 7,330, 6,450
02211300	Towaliga River near Jackson, Ga.	Lat 33°15'50", long 84°04'17", Butts County, Hydrologic Unit 03070103, at bridge on State Highway 16, 6.5 miles west of Jackson.	a105	1961-71†, 1972-77	3-22-77	10.48	2,390
02213470	Tobesofkee Creek above Macon, Ga.	Lat 32°51'15", long 83°50'22", Bibb County, Hydrologic Unit 03070103, 800 ft upstream from bridge on State Highway 74, 8.0 miles west of Macon.	156	1968-71†, 1972-77	3-22-77	12.78	6,760
*02214000	Echeconnee Creek near Macon, Ga.	Lat 32°45'54", long 83°50'22", Bibb-Crawford County line, Hydrologic Unit 03070103, at county road 13 miles southwest of Macon.	147	1938-43†, 1951-77	3-22-77	9.97	3,500
02214500	Big Indian Creek at Perry, Ga.	Lat 32°27'20", long 83°44'21", Houston County, Hydrologic Unit 03070104, at municipal waterworks at Perry, and 300 ft downstream from bridge on U.S. Highway 41.	108	1944-71†, 1972-77	3-23-77	6.20	940
02215000	Ocmulgee River at Hawkinsville, Ga.	Lat 32°16'50", long 83°27'40", Pulaski County, Hydrologic Unit 03070104, at U.S. Highway 341, at Hawkinsville, and at mile 135.1.	a3,800	1877g, 1909-77g	3-25-77	20.91	19,900

* Also a low-flow partial-record station.

† Operated as a continuous-record gaging station.

a Approximately.

g Maximum gage heights computed from graph based on gage readings.

Crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis- charge (ft ³ /s)
Altamaha River basin--Continued							
02215220	Ocmulgee River tributary near Abbeville, Ga.	Lat 32°06'53", long 83°24'12", Wilcox County, Hydrologic Unit 03070104, at culvert on U.S. Highway 129, 10 miles northwest of Abbeville.	2.92	1965-75	4-14-75	3.28	123
02215230	Cedar Creek near Pineview, Ga.	Lat 32°05'34", long 83°30'12", Wilcox County, Hydrologic Unit 03070104, at culvert on State Highway 112, 1.5 miles south of Pineview.	7.46	1965-75	4-14-75	5.21	860
02215245	Folsom Creek tributary near Rochelle, Ga.	Lat 32°00'15", long 83°25'58", Wilcox County, Hydrologic Unit 03070104, at culvert on State Highway 233, 4 miles north of Rochelle.	1.44	1965-77	12-28-76	3.56	153
02215280	Little House Creek tributary near Rebecca, Ga.	Lat 31°50'05", long 83°22'14", Ben Hill County, Hydrologic Unit 03070104, at culvert on State Highway 90, 7.5 miles east of Rebecca.	2.45	1960-77	4-15-75 3-15-76 12-28-76	5.53 1.56 4.53	334 28 244
*02216000	Little Ocmulgee River at Towns, Ga.	Lat 32°00'28", long 82°45'10", Telfair- Wheeler County line, Hydrologic Unit 03070105, at State Highway 134, at Towns.	329	1925, 1929, 1938-46†, 1948-77	3-15-77	13.27	2,690
02217400	Mulberry River tributary near Winder, Ga.	Lat 34°03'53", long 83°39'45", Jackson County, Hydrologic Unit 03070101, at culvert on State Highway 11, 6 miles northeast of Winder.	2.68	1965-77	-	-	< 278
02218450	Town Creek near Greensboro, Ga.	Lat 33°38'29", long 83°13'36", Greene County, Hydrologic Unit 03070101, at State Highway 15, 5 miles northwest of Greensboro.	11.9	1964-77	8-3-77	6.37	390
02223349	Big Sandy Creek tributary near Irwinton, Ga.	Lat 32°48'11", long 83°13'37", Wilkinson County, Hydrologic Unit 03070102, at culvert on county road, 1.7 miles south- west of Irwinton.	a0.50	1977	3-22-77	2.65	52
02223360	Big Sandy Creek near Irwinton, Ga.	Lat 32°45'59", long 83°10'05", Wilkinson County, Hydrologic Unit 03070102, at bridge on U.S. Highway 441, 2 miles south of Irwinton.	177	1970-77	3-31-70 3-4-71 1-12-72 2-3-73 2-8-74 3-20-75 5-16-76 3-22-77	6.51 5.06 5.27 5.47 5.15 5.67 4.62 6.65	4,020 1,620 1,880 2,160 1,730 2,450 1,220 4,320
02224500	Oconee River near Mount Vernon, Ga.	Lat 32°11'28", long 82°38'00", Montgomery- Wheeler County line, Hydrologic Unit 03070102, at U.S. Highway 280, 2 miles west of Mount Vernon, at mile 28.7.	a5,110	1936, 1938-55, 1956-77	3-28-77	17.75	29,200
02225150	Ochopee River near Wrightsville, Ga.	Lat 32°42'50", long 82°45'20", Johnson County, Hydrologic Unit 03070107, at U.S. Highway 319, 2.5 miles west of Wrightsville.	a55	1963-77	3-22-77	9.07	2,180
02225330	Beaver Creek near Cobbtown, Ga.	Lat 32°16'52", long 82°11'27", Tattnall County, Hydrologic Unit 03070107, at culvert on State Highway 152, 3.2 miles west of Cobbtown.	9.58	1965-77	10-20-76	3.81	137
02225350	Pendleton Creek tributary No. 2 near Soperton, Ga.	Lat 32°25'35", long 82°29'52", Treutlen County, Hydrologic Unit 03070107, at culvert on State Highway 86, 6.5 miles northeast of Soperton.	1.68	1965-77	10-20-76	b2.40	110
02225850	Beards Creek near Glennville, Ga.	Lat 31°55'26", long 81°52'58", Tattnall- Long County line, Hydrologic Unit 03070106, at State Highway 144, 3 miles east of Glennville.	74.4	1966-77	11-29-76	6.87	1,840

* Also a low-flow partial-record station.

† Operated as a continuous-record gaging station.

a Approximately.

b Estimated based on downstream culvert gage.

Crest-stage partial-record stations--Continued							
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Altamaha River basin--Continued							
02226030	Doctors Creek near Ludowici, Ga.	Lat 31°44'07", long 81°42'08", Long County, Hydrologic Unit 03070106, at State Highway 38, 3 miles northeast of Ludowici.	a33	1966-77	11-29-76	6.73	416
Satilla River basin							
02226150	Satilla River tributary near Willacoochee, Ga.	Lat 31°27'24", long 83°03'02", Coffee County, Hydrologic Unit 03070201, at culvert on State Highway 149, 8.5 miles north of Willacoochee.	6.38	1965-77	1-5-77	3.30	145
02226580	Big Creek near Hoboken, Ga.	Lat 31°10'28", long 82°11'17", Brantley County, Hydrologic Unit 03070201, at State Highway 50, 2.5 miles west of Hoboken.	a49	1966-77	11-24-76	11.23	(+)
02227000	Hurricane Creek near Alma, Ga.	Lat 31°34'00", long 82°27'50", Bacon County, Hydrologic Unit 03070201, at bridge on U.S. Highway 1, 1.5 miles north of Alma.	150	1952-71†, 1972-77	5-15-76 10-18-76	5.85 7.35	c910 2,040
*02227200	Little Hurricane Creek below Alma, Ga.	Lat 31°25'25", long 82°25'59", Bacon County, Hydrologic Unit 03070201, at State Highway 4, 8.5 miles south of Alma.	111	1948-77	3-8-76	6.53	1,320
02227290	Alabama River near Blackshear, Ga.	Lat 32°33'44", long 82°28'03", Pierce County, Hydrologic Unit 03070201, at bridge on State Highways 15 and 121, 3 miles north of Blackshear.	a411	1970-77	3-26-70 8-20-71 2-8-72 4-5-73 2-11-74 4-19-75 5-28-76 1-8-77	12.67 12.26 12.90 14.03 11.92 12.89 12.37 12.78	3,850 3,270 4,170 5,800 2,810 4,160 3,430 4,000
*2227400	Big Satilla Creek near Alma, Ga.	Lat 31°39'24", long 82°25'55", Bacon-Appling County line, Hydrologic Unit 03070202, at State Highway 4, 8.2 miles north of Alma.	112	1948-77	10-18-76	6.74	2,140
*02227430	Little Satilla Creek at Odum, Ga.	Lat 31°40'00", long 82°02'23", Wayne County, Hydrologic Unit 03070202, at State Highway 27 at Odum, 10 miles northwest of Jesup.	a49	1949-77	10-18-76	8.21	(+)
02228050	Buffalo Creek at Hickox, Ga.	Lat 31°09'22", long 81°59'29", Brantley County, Hydrologic Unit 03070201, at State Highway 23, at Hickox.	a59	1966-77	11-29-76	10.69	(+)
Suwannee River basin							
02314700	Suwannee Creek near Thelma, Ga.	Lat 30°49'18", long 82°50'28", Clinch-Echols County line, Hydrologic Unit 03110201, at State Highway 187, 1.2 miles west of Thelma.	232	1929, 1963-77	12-1-76	7.31	1,410
02315650	Alapaha River tributary No. 2 near Pitts, Ga.	Lat 32°00'20", long 83°33'27", Wilcox County, Hydrologic Unit 03110202, at culvert on State Highway 215, 3.5 miles north of Pitts.	0.14	1965-75	4-14-75	2.38	53
02315670	Alapaha River tributary No. 3 near Rochelle, Ga.	Lat 31°56'40", long 83°30'52", Wilcox County, Hydrologic Unit 03110202, at culvert on U.S. Highway 280, 3.5 miles west of Rochelle.	3.95	1965-73, 1975	4-14-75	2.83	57
*02315700	Alapaha River at Rebecca, Ga.	Lat 31°48'55", long 83°28'26", Turner-Ben Hill County line, Hydrologic Unit 03110202, at State Highway 90, 1 mile east of Rebecca.	112	1961-77	11-30-76	5.40	2,060

* Also a low-flow partial-record station.

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

a Approximately.

c Revised.

Crest-stage partial-record stations--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
Suwannee River basin--Continued							
02315980	Alapaha River tributary near Ocilla, Ga.	Lat 31°33'38", long 83°21'28", Irwin County, Hydrologic Unit 03110202, at culvert on U.S. Highway 319, 7 miles west of Ocilla.	1.21	1960-75	4-14-75	2.91	131
*02316200	Willacoochee River near Ocilla, Ga.	Lat 31°30'06", long 83°09'43", Irwin County, Hydrologic Unit 03110202, at State Highway 90, 8 miles southeast of Ocilla.	a90	1948, 1950-77	3-15-77	7.05	1,440
02316220	Little Brushy Creek near Ocilla, Ga.	Lat 31°36'30", long 83°13'56", Irwin County, Hydrologic Unit 03110202, at culvert on secondary road 1533, 1.2 miles northeast of Ocilla.	1.65	1966-75	4-10-75	2.10	90
02316260	Alapaha River tributary No. 4 near Willacoochee, Ga.	Lat 31°16'50", long 83°03'45", Berrien County, Hydrologic Unit 03110202, at culvert on State Highway 135, 4.5 miles south of Willacoochee.	4.16	1965-75	4-10-75	4.77	186
02316390	Alapaha River at Lakeland, Ga.	Lat 31°02'46", long 83°02'37", Lanier County, Hydrologic Unit 03110202, at bridge on U.S. Highways 129 and 221 at Lakeland.	1,080	1970-77	4-8-70 3-11-71 1-21-72 4-8-73 4-9-74 4-22-75 5-27-76 3-1-77	18.47 17.75 17.53 19.33 17.08 18.47 18.01 18.30	7,140 5,780 5,440 9,750 4,900 7,140 6,220 6,800
*02317700	Withlacoochee River near Nashville, Ga.	Lat 31°11'54", long 83°16'21", Berrien County, Hydrologic Unit 03110202, at State Highway 76, 1.5 miles southwest of Nashville.	132	1948, 1951-77	11-30-76	9.44	1,740
02317710	Withlacoochee River tributary near Nashville, Ga.	Lat 31°11'54", long 83°17'17", Berrien County, Hydrologic Unit 03110202, at culvert on State Highway 76, 2.2 miles southwest of Nashville.	.86	1960-77	11-29-76	3.64	106
02317730	New River tributary near Nashville, Ga.	Lat 31°17'18", long 83°20'36", Berrien County, Hydrologic Unit 03110203, at culvert on State Highway 125, 9 miles northwest of Nashville.	0.95	1960-75	4-10-75	2.65	173
02317734	New River near Nashville, Ga.	Lat 31°10'37", long 83°19'20", Berrien-Cook County line, Hydrologic Unit 03110203, at bridge on State Highway 76, 5 miles west of Nashville.	146	1970-77	8-29-70 5-2-71 2-7-72 4-28-73 4-6-74 1-13-75 5-26-76 11-30-77	9.74 9.99 9.94 10.54 8.68 11.43 10.59 9.76	2,030 2,250 2,210 2,800 1,100 3,780 2,850 2,040
02317760	Little River near Ashburn, Ga.	Lat 31°41'33", long 83°42'16", Turner County, Hydrologic Unit 03110204, at culvert on State Highway 32, 3.2 miles west of Ashburn.	8.54	1965-75	4-14-75	5.01	787
02317765	Newell Branch near Worth, Ga.	Lat 31°44'20", long 83°42'30", Turner County, Hydrologic Unit 03110204, at culvert on secondary road 1531, 3.2 miles west of Worth.	0.98	1965-75	4-10-75	2.82	112
02317770	Newell Branch near Ashburn, Ga.	Lat 31°41'50", long 83°41'56", Turner County, Hydrologic Unit 03110204, at culvert on State Highway 32, 2.8 miles west of Ashburn.	6.48	1965-75	3-20-65 3-4-66 1-10-67 4-10-75	4.47 a4.94 a4.76 a4.95	266 367 314 412
02317775	Daniels Creek near Ashburn, Ga.	Lat 31°40'40", long 83°45'06", Turner County, Hydrologic Unit 03110204, at culvert on State Highway 32, 6.2 miles west of Ashburn.	1.11	1965-77	1-4-77	1.33	25

* Also a low-flow partial-record station.

a Approximately.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Crest-stage partial-record stations--Continued							
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft ³ /s)
Suwannee River basin--Continued							
02317780	Lime Sink Creek near Sycamore, Ga.	Lat 31°36'20", long 83°40'31", Turner County, Hydrologic Unit 03110204, at culvert on secondary road 1181, 4.5 miles southwest of Sycamore.	0.68	1965-77	11-30-76	3.14	85
02317795	Mill Creek near Tifton, Ga.	Lat 31°29'46", long 83°33'15", Tift County, Hydrologic Unit 03110204, at culvert on county road, 3 miles northwest of Tifton.	6.21	1965-75	4-14-75	5.65	458
02317810	Little River tributary No. 2 near Tifton, Ga.	Lat 31°25'30", long 83°34'23", Tift County, Hydrologic Unit 03110204, at culvert on secondary road 546, 4 miles southwest of Tifton.	.47	1965-77	1-4-77	0.82	10
02317840	Warrior Creek near Sylvester, Ga.	Lat 31°33'10", long 83°48'53", Worth County, Hydrologic Unit 03110204, at State Highway 112, 1.8 miles northeast of Sylvester.	8.24	1965-75	4-10-75	6.47	705
02317845	Warrior Creek tributary near Sylvester, Ga.	Lat 31°32'54", long 83°49'11", Worth County, Hydrologic Unit 03110204, at culvert on State Highway 112, 1.2 miles northeast of Sylvester.	1.64	1965-75	4-10-75	3.67	321
02317870	Warrior Creek near Sumner, Ga.	Lat 31°21'45", long 83°46'11", Worth County, Hydrologic Unit 03110204, at county road, 10.8 miles south of Sumner.	a109	1966-77	3-9-77	13.73	3,320
02317890	Little Creek near Sylvester, Ga.	Lat 31°36'48", long 83°45'29", Worth County, Hydrologic Unit 03110204, at culvert on State Highway 112, 7.5 miles northeast of Sylvester.	0.39	1965-75	4-10-75	2.99	133
*02317900	Ty Ty Creek at Ty Ty, Ga.	Lat 31°28'22", long 83°39'47", Tift-Worth County line, Hydrologic Unit 03110204, at U.S. Highway 82, 1 mile west of Ty Ty.	a47	1948, 1951-77	3-8-77	5.86	776
02317905	Little Creek near Omega, Ga.	Lat 31°23'35", long 83°38'00", Tift County, Hydrologic Unit 03110204, at secondary road 546, 4.2 miles north of Omega.	4.22	1965-75	4-10-75	3.65	195
02317980	Little River near Sparks, Ga.	Lat 31°11'34", long 83°31'22", Cook-Colquitt County line, Hydrologic Unit 03110204, at bridge on county highway, 5.5 miles west of Sparks.	555	1948, 1961-77	3-10-77	11.60	5,400
02318015	Bull Creek near Norman Park, Ga.	Lat 31°13'13", long 83°37'20", Colquitt County, Hydrologic Unit 03110204, at culvert on secondary road 548, 5 miles southeast of Norman Park.	1.36	1965-75	4-10-75	3.37	232
02318020	Bull Creek tributary near Ellenton, Ga.	Lat 31°09'19", long 83°37'06", Colquitt County, Hydrologic Unit 03110204, at culvert on State Highway 37, 3 miles west of Ellenton.	0.27	1960-75	4-10-75	4.95	140
02318600	Okapilco Creek near Berlin, Ga.	Lat 31°02'48", long 83°37'02", Colquitt County, Hydrologic Unit 03110203, on county road, 1 mile south of Berlin.	101	1963-77	3-8-77	9.83	1,550
Aucilla River basin							
02326200	Aucilla River near Boston, Ga.	Lat 30°46'44", long 83°48'12", Thomas County, Hydrologic Unit 03110103, at bridge on State Highway 133, 1.2 miles south of Boston.	a81	1962-77	3-19-69 2-9-71 1-14-72 4-4-73 4-12-75 5-24-76 11-30-76	4.96 4.79 6.83 7.83 7.95 8.26 6.95	c264 c196 c1,710 c3,040 c3,220 c3,720 1,850

* Also a low-flow partial-record station.

a Approximately.

c Revised.

Crest-stage partial-record stations--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
Ochlockonee River basin							
*02327200	Ochlockonee River at Moultrie, Ga.	Lat 31°10'58", long 83°48'32", Colquitt County, Hydrologic Unit 03120002, at State Highway 37, at Moultrie.	a96	1948, 1951-77	11-30-76	6.73	(+)
02327350	Ochlockonee River tributary near Coolidge, Ga.	Lat 31°01'33", long 83°57'32", Thomas County, Hydrologic Unit 03120002, at culvert on State Highway 202, 5.5 miles west of Coolidge.	1.81	1965-77	3-8-77	b1.85	124
02327400	Sallys Branch tributary near Sale City, Ga.	Lat 31°14'46", long 84°01'40", Mitchell County, Hydrologic Unit 03120002, at culvert on State Highway 93, 1.2 miles south of Sale City.	3.70	1966-75	6-23-67 3-26-71 6-25-72 4-26-73 4-10-75	5.83 5.15 5.92 5.88 5.35	c724 c360 c800 c764 460
02327550	Barnetts Creek near Meigs, Ga.	Lat 31°01'32", long 84°08'14", Grady County, Hydrologic Unit 03120002, at State Highway 111, 4.2 miles south-west of Meigs.	15.0	1965-75	4-10-75	5.87	1,590
*02327700	Barnetts Creek near Thomasville, Ga.	Lat 30°54'18", long 84°04'34", Thomas-Grady County line, Hydrologic Unit 03120002, at county road, 7.5 miles northwest of Thomasville.	104	1951-77	3-10-77	11.60	1,490
02327810	Ochlockonee River near Cairo, Ga.	Lat 30°47'30", long 84°09'16", Grady County, Hydrologic Unit 03120002, at bridge on State Highway 93,, 5 miles south of Cairo.	747	1970-77	4-2-70 3-29-71 2-7-72 6-1-73 2-9-74 4-12-75 5-27-76 3-12-77	20.82 23.01 21.68 25.80 22.54 27.32 22.84 22.48	4,710 9,190 5,980 17,500 7,880 23,400 8,710 7,730
02327860	Popple Branch near Whigham, Ga.	Lat 30°55'36", long 84°15'18", Grady County, Hydrologic Unit 03120002, at culvert on State Highway 179, 3.2 miles north of Whigham.	1.71	1977	7-30-77	2.64	133
*02327900	Wolf Creek near Whigham, Ga.	Lat 30°53'36", long 84°17'26", Grady County, Hydrologic Unit 03120002, at U.S. Highway 84, 2.2 miles northeast of Whigham.	a19	1948, 1951-77	11-30-76	6.74	800
02328000	Tired Creek near Cairo, Ga.	Lat 30°51'54", long 84°15'46", Grady County, Hydrologic Unit 03120002, 140 ft upstream from highway bridge, and 3 miles west of Cairo.	a60	1944-71, 1972-77	3-10-77	7.46	1,650
Apalachicola River basin							
02331000	Chattahoochee River near Leaf, Ga.	Lat 34°34'37", long 83°38'09", White-Habersham County line, Hydrologic Unit 03130001, 700 ft upstream from bridge on State Highway 115, 1.5 miles east of Leaf, and 7.5 miles southeast of Cleveland.	150	1940-71†, 1972-77	5-15-76 3-30-77	10.55 10.26	9,220 8,780
02336080	North Fork Peach-tree Creek near Chamblee, Ga.	Lat 33°51'43", long 84°17'13", DeKalb County, Hydrologic Unit 03130001, at culvert on Shallowford Road near Chamblee.	19.1	1974-77	1-9-77	8.20	1,110
02336090	North Fork Peachtree Creek tributary near Chamblee, Ga.	Lat 33°50'53", long 84°17'57", DeKalb County, Hydrologic Unit 03130001, at culvert on Meadowcliff Drive, near Chamblee.	0.32	1974-77	1-9-77	2.85	29.5
02336102	North Fork Peachtree Creek tributary near Atlanta, Ga.	Lat 33°51'20", long 84°19'19", DeKalb County, Hydrologic Unit 03130001, at culvert on Drew Valley Road, near Atlanta.	2.19	1974-77	7-1-77	4.34	317

* Also a low-flow partial-record station.

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

a Approximately.

b Estimated.

c Revised.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Crest-stage partial-record stations--Continued					Annual maximum		
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
Apalachicola River basin--Continued							
02336150	South Fork Peach-tree Creek at Clarkston, Ga.	Lat 33°48'51", long 84°14'38", DeKalb County, Hydrologic Unit 03130001, at culvert on Montreal Road, at Clarkston.	5.29	1961, 1963-64, 1974-77	3-21-77	4.91	502
02336180	South Fork Peach-tree Creek near Decatur, Ga.	Lat 33°48'20", long 84°17'52", DeKalb County, Hydrologic Unit 03130001, at bridge on Willivee Drive, near Decatur.	11.0	1961, 1963-64, 1974-77	3-21-77	8.43	616
02336238	South Fork Peachtree Creek tributary near Atlanta, Ga.	Lat 33°47'11", long 84°20'29", DeKalb County, Hydrologic Unit 03130001, at culvert on East Rock Springs Road, near Atlanta.	0.90	1974-77	8-26-77	3.34	416
02336325	Nancy Creek tributary near Chamblee, Ga.	Lat 33°54'22", long 84°18'21", DeKalb County, Hydrologic Unit 03130001, at culvert on Plantation Lane, near Chamblee.	1.35	1974-77	7-1-77	4.60	425
02336690	South Utoy Creek tributary at East Point, Ga.	Lat 33°42'09", long 84°26'57", Fulton County, Hydrologic Unit 03130002, at at culvert on Fort Valley Drive, at East Point.	0.52	1974-77	6-26-77	4.14	170
02336697	South Utoy Creek tributary at East Point, Ga.	Lat 33°41'51", long 84°27'33", Fulton County, Hydrologic Unit 03130002, at at culvert on Woodberry Avenue, at East Point.	0.21	1974-77	6-26-77	3.18	69.0
02336700	South Utoy Creek tributary at East Point.	Lat 33°41'25", long 84°28'05", Fulton County, Hydrologic Unit 03130002, at culvert on Headland Drive, at East Point.	0.75	1964-69, 1970-77	6-22-77	3.24	184
02336705	South Utoy Creek at Atlanta, Ga.	Lat 33°42'57", long 84°28'41", Fulton County, Hydrologic Unit 03130002, at culvert on Adams Drive, at Atlanta.	8.80	1974-77	3-16-76 6-26-77	7.73 5.24	c2,880 1,420
02337081	Camp Creek at College Park, Ga.	Lat 33°39'39", long 84°27'44", Fulton County, Hydrologic Unit 03130002, at culvert on Park Terrace, at College Park.	0.88	1974-77	1-23-74 1-10-75 5-28-76 6-22-77	6.27 5.70 6.09 5.01	394 340 378 271
02337100	North Fork Camp Creek at Atlanta, Ga.	Lat 33°39'40", long 84°30'40", Fulton County, Hydrologic Unit 03130002, at bridge on Redwine Road, at Atlanta.	5.25	1965-69#, 1970-77	7-1-77	6.18	603
*02337400	Dog River near Douglasville, Ga.	Lat 33°39'36", long 84°51'41", Douglas County, Hydrologic Unit 3130002, at county road, 2.2 miles north of Fair Play.	a43	1951-77	3-30-77	11.43	3,450
02337448	Hurricane Creek tributary near Fairplay, Ga.	Lat 33°35'03", long 84°50'54", Douglas County, Hydrologic Unit 03130002, at culvert on State Highway 5, 8 miles east of Fairplay.	0.33	1977	3-30-77	7.06	153
02341600	Juniper Creek near Geneva, Ga.	Lat 32°31'41", long 84°34'41", Talbot-Marion County line, Hydrologic Unit 03130003, at State Highway 41, 1.8 miles south of Geneva.	47.4	1963-77	4-1-77	6.85	660
02343200	Pataula Creek near Lumpkin, Ga.	Lat 31°56'03", long 84°48'12", Stewart County, Hydrologic Unit 03130003, at bridge on U.S. Highway 27, 8 miles south of Lumpkin.	a70	1950-58, 1959-71#, 1972-77	11-30-76	5.92	1,810
02343219	Bluff Springs Branch near Lumpkin, Ga.	Lat 32°01'53", long 84°53'18", Stewart County, Hydrologic Unit 03130003, at culvert on State Highway 27, 5.8 miles southwest of Lumpkin.	2.98	1977	8-15-77	2.51	193

* Also a low-flow partial-record station.

† Operated as a continuous-record gaging station.

a Approximately.

c Revised.

Crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis- charge (ft ³ /s)
Apalachicola River basin--Continued							
02343225	Pataula Creek near Georgetown, Ga.	Lat 31°49'06", long 84°57'27", Quitman County, Hydrologic Unit 03130003, at bridge on U.S. Highway 82 (State High- way 50), 11 miles east of Georgetown.	295	1951-77	5-19-69 4-26-73 4-6-74 12-2-76	4.94 6.38 5.33 5.60	c2,410 c4,900 c3,000 3,500
02346193	Scott Creek near Talbotton, Ga.	Lat 32°39'48", long 84°36'06", Talbot County, Hydrologic Unit 03130005, at culvert on county road, 3.7 miles west of Talbotton.	3.36	1969-77	3-22-77	6.89	868
02346210	Kimbrough Creek near Tal- botton, Ga.	Lat 32°41'19", long 84°30'48", Talbot County, Hydrologic Unit 03130005, at culvert on State Highway 22, 1.8 miles northeast of Talbotton.	6.62	1969-77	8-3-77	3.58	708
02346217	Celeoth Creek near Manchester, Ga.	Lat 32°49'20", long 84°36'16", Talbot County, Hydrologic Unit 03130005, at culvert on county road, 2.2 miles south of Manchester.	2.82	1969-77	9-30-76 8-3-77	4.24 3.58	c834 660
*02348300	Patsiliga Creek near Reynolds, Ga.	Lat 32°34'20", long 84°05'27", Taylor County, Hydrologic Unit 03130005, at State Highway 128, 1 mile north of Reynolds.	139	1963-77	4-1-77	6.75	850
02349000	Whitewater Creek below Rambulette Creek, near Butler, Ga.	Lat 32°28'02", long 84°15'59", Taylor County, Hydrologic Unit 03130005, on left bank 500 ft downstream from bridge on U.S. Highway 19, and 6.5 miles south of Butler.	93.4	1944-71†, 1972-77	4-1-77	3.98	485
02349330	Buck Creek tribu- tary near Tazewell, Ga.	Lat 32°20'50", long 84°22'26", Schley County, Hydrologic Unit 03130006, at culvert on State Highway 240, 4.3 miles east of Tazewell.	a0.40	1977	8-19-77	2.28	28
02349695	Horsehead Creek near Montezuma, Ga.	Lat 32°21'28", long 83°56'11", Macon County, Hydrologic Unit 03130006, at culvert on State Highway 224, 8.7 miles northeast of Montezuma.	0.72	1977	8-5-77	5.6	146
02350520	Abrams Creek tributary near Doles, Ga.	Lat 31°40'46", long 83°48'04", Worth County, Hydrologic Unit 03130006, at culvert on State Highway 32, 5 miles east of Doles.	3.77	1965-75	2-18-75	4.06	348
02351500	Muckalee Creek near Americus, Ga.	Lat 32°04'59", long 84°15'29", Sumter County, Hydrologic Unit 03130007, at State Highway 30, 1 mile west of Americus.	140	1963-77	3-10-77	8.30	2,170
*02351800	Muckaloochee Creek at Smithville, Ga.	Lat 31°54'19", long 84°14'44", Lee County, Hydrologic Unit 03130007, at State Highway 118, at Smithville.	a47	1943, 1948, 1950-77	11-30-76	4.46	796
02353100	Ichawaynochaway Creek near Dawson, Ga.	Lat 31°46'18", long 84°33'45", Terrell County, Hydrologic Unit 03130009, at State Highway 50, 7 miles west of Dawson.	118	1963-77	11-30-76	8.42	1,720
02353400	Pachitla Creek near Edison, Ga.	Lat 31°33'18", long 84°40'51", Calhoun County, Hydrologic Unit 03130009, at bridge on State Highway 37, 3.5 miles east of Edison.	188	1950-59, 1960-71†, 1972-77	11-30-76	8.20	3,950

* Also a low-flow partial record station.

† Operated as a continuous-record gaging station.

a Approximately.

c Revised.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Crest-stage partial-record stations--Continued							
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum	
						Gage height (feet)	Dis-charge (ft ³ /s)
Apalachicola River basin--Continued							
02354500	Chickasawhatchee Creek at Elmodel, Ga.	Lat 31°21'09", long 84°29'10", Baker County, Hydrologic Unit 03130009, at bridge on State Highway 37 at Elmodel, and 2 miles upstream from mouth.	a320	1940-49†, 1952-65, 1970-77	4-2-70	11.76	3,520
					3-10-71	9.04	1,880
					4-1-72	8.84	1,810
					2-3-73	10.92	2,910
					2-9-74	9.32	2,000
					4-16-75	11.66	3,440
					5-17-76	9.92	2,300
					11-30-76	9.34	2,010
02356100	Spring Creek near Arlington, Ga.	Lat 31°24'47", long 84°46'33", Early County, Hydrologic Unit 03130010, at State Highway 62, 3.5 miles southwest of Arlington.	a49	1951-65, 1970-73, 1975-77	4-2-70	7.73	1,640
					1-5-71	7.45	1,230
					2-8-72	6.49	304
					1-23-73	7.31	1,050
					4-11-75	8.40	3,000
					3-15-76	7.22	(+)
					11-30-76	8.14	(+)
					Mobile River basin		
02381100	Mountaintown Creek tributary near Ellijay, Ga.	Lat 34°42'04", long 84°31'54", Gilmer County, Hydrologic Unit 03150102, at culvert on State Highway 282, 3 miles west of Ellijay.	2.41	1965-74, 1977	3-29-77	5.05	400
02381300	Fir Creek near Ellijay, Ga.	Lat 34°41'06", long 84°37'23", Gilmer County, Hydrologic Unit 03150102, at culvert on State Highway 282, 8 miles west of Ellijay.	1.35	1966-77	3-29-77	3.95	201
02381900	Ball Creek near Talking Rock, Ga.	Lat 34°31'52", long 84°34'11", Pickens County, Hydrologic Unit 03150102, at culvert on State Highway 156, 3.8 miles west of Talking Rock.	a3.50	1965-74, 1977	3-29-77	6.60	1,110
02382600	Sugar Creek near Chatsworth, Ga.	Lat 34°40'26", long 84°42'40", Murray County, Hydrologic Unit 03150102, at culvert on U.S. Highway 411, 7.5 miles southeast of Chatsworth.	7.30	1965-74, 1977	4-4-77	7.78	1,040
02382800	Dry Creek at Oakman, Ga.	Lat 34°33'13", long 84°42'27", Gordon County, Hydrologic Unit 03150102, at culvert on U.S. Highway 411, 0.8 mile south of Oakman.	3.06	1965-74, 1977	4-4-77	8.45	1,410
02382900	Pine Log Creek near Rydal, Ga.	Lat 34°22'10", long 84°42'45", Bartow County, Hydrologic Unit 03150102, at U.S. Highway 411 (State Highway 61), 2 miles north of Rydal.	12.8	1964-74, 1977	4-4-77	6.85	1,510
02383000	Rock Creek near Fairmount, Ga.	Lat 34°21'32", long 84°46'46", Bartow County, Hydrologic Unit 03150102, at State Highway 140, 2.8 miles upstream from mouth, and 7 miles southwest of Fairmount.	5.61	1952-74†, 1977	4-4-77	8.25	1,400
02383200	Redbud Creek near Ranger, Ga.	Lat 34°31'57", long 84°43'39", Gordon County, Hydrologic Unit 03150102, at culvert on State Highway 156, 3.5 miles northwest of Ranger.	1.97	1965-74, 1977	4-4-77	6.20	1,210
02384500	Conasauga River near Eton, Ga.	Lat 34°49'40", long 84°51'03", Murray-Whitfield County line, Hydrologic Unit 03150101, at State Highway 286, 5 miles west of Eton.	253	1954-58, 1963-77	4-4-77	12.08	10,300
02384600	Mill Creek tributary near Eton, Ga.	Lat 34°49'38", long 84°48'58", Murray County, Hydrologic Unit 03150101, at culvert on State Highway 286, 3 miles west of Eton.	4.28	1965-77	4-4-77	5.71	428

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

a Approximately.

Crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis- charge (ft ³ /s)
Mobile River basin--Continued							
02387100	Polecat Creek near Spring Place, Ga.	Lat 34°39'08", long 84°50'33", Murray County, Hydrologic Unit 03150101, at culvert on State Highway 225, 7.5 miles south of Spring Place.	1.22	1964-74, 1977	4-4-77	5.75	508
02387200	Beamer Creek near Spring Place, Ga.	Lat 34°38'03", long 84°51'52", Murray County, Hydrologic Unit 03150101, at culvert on State Highway 225, 8.8 miles south of Spring Place.	1.29	1964-74, 1977	4-4-77	4.40	512
02387300	Dead Mans Branch near Resaca, Ga.	Lat 34°35'44", long 84°52'11", Gordon County, Hydrologic Unit 03150101, at culvert on State Highway 225, 4.2 miles east of Resaca.	.17	1965-77	4-4-77	6.25	172
02387560	Oothkalooga Creek tributary at Adairsville, Ga.	Lat 34°21'34", long 84°55'20", Bartow County, Hydrologic Unit 03150103, at culvert on U.S. Highway 41, 1 mile south of Adairsville.	3.56	1965-74, 1977	4-4-77	6.89	1,520
02387700	Rocky Creek at Curryville, Ga.	Lat 34°26'44", long 85°05'12", Gordon County, Hydrologic Unit 03150103, at culvert on State Highway 156, 0.4 mile west of Curryville.	9.41	1965-74, 1977	4-4-77	9.00	3,970
02387800	Bailey Creek near Villanow, Ga.	Lat 34°40'10", long 85°05'40", Walker County, Hydrologic Unit 03150103, at culvert on State Highway 143, 1.2 miles east of Villanow.	3.82	1965-74, 1977	4-4-77	9.90	2,100
02388200	Storey Mill Creek (formerly pub- lished as Moss Creek tributary) near Summerville, Ga.	Lat 34°25'39", long 85°16'03", Chattooga County, Hydrologic Unit 03150103, at culvert on county road, 6 miles south- east of Summerville.	6.02	1966-77	4-4-77	8.96	1,550
02388400	Dozier Creek (for- merly published as Jimmy Long Creek) near Shannon, Ga.	Lat 34°18'53", long 85°05'43", Floyd County, Hydrologic Unit 03150103, at culvert on State Highway 53, 2 miles southwest of Shannon.	3.00	1965-74, 1977	4-4-77	6.26	1,300
0238890	Etowah River near Dahlonega, Ga.	Lat 34°30'56", long 84°03'40", Lumpkin County, Hydrologic Unit 03150104, at bridge on State Highway 9, 4.5 miles west of Dahlonega.	a68	1950-77	3-30-77	12.38	3,970
02389300	Shoal Creek near Dawsonville, Ga.	Lat 34°25'13", long 84°08'47", Dawson County, Hydrologic Unit 03150104, at bridge on State Highway 53, 1 mile west of Dawsonville, and 6.5 miles upstream from mouth.	20.5	1959-74†, 1977	3-30-77	7.95	2,700
*02394400	Pumpkinvine Creek below Dallas, Ga.	Lat 33°54'57", long 84°52'40", Paulding County, Hydrologic Unit 03150104, at State Highway 6, 2.2 miles west of Dallas.	a40	1951-77	3-30-77	17.33	4,800
02394950	Hills Creek near Taylorsville, Ga.	Lat 34°04'27", long 84°57'02", Polk County, Hydrologic Unit 03150104, at bridge on county road, 2 miles south- east of Taylorsville, and 2 miles up- stream from mouth.	a26	1960-74†, 1977	3-30-77	10.14	2,710
02397500	Cedar Creek near Cedartown, Ga.	Lat 34°03'38", long 85°18'41", Polk County, Hydrologic Unit 03150105, on left bank 700 ft downstream from bridge on State Highway 161, 4.5 miles northwest of Cedartown.	109	1943-73†, 1977	3-30-77	15.98	8,200

* Also a low-flow partial-record station.

† Operated as a continuous-record gaging station.

a Approximately.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Crest-stage partial-record stations--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
Mobile River basin--Continued							
02397750	Duck Creek above LaFayette, Ga.	Lat 34°42'17", long 85°19'40", Walker County, Hydrologic Unit 03150105, at culvert on county road, 2.5 miles west of LaFayette.	6.82	1965-74, 1977	3-30-77	7.15	868
02411735	McClendon Creek tributary near Dallas, Ga.	Lat 33°50'59", long 84°57'20", Paulding County, Hydrologic Unit 03150108, at culvert on State Highway 101, 9.3 miles southwest of Dallas.	0.88	1977	3-30-77	4.27	302
*02411900	Tallapoosa River at Tallapoosa, Ga.	Lat 33°46'27", long 85°18'00", Haralson County, Hydrologic Unit 03150108, at State Highway 100, 2 miles north of Tallapoosa.	237	1936, 1949, 1951-77	3-31-77	29.3	28,300
02411902	Mann Creek tributary near Tallapoosa, Ga.	Lat 33°51'16", long 85°17'28", Haralson County, Hydrologic Unit 03150108, at culvert on State Highway 100, 7 miles north of Tallapoosa.	0.12	1977	4-3-77	5.33	101
*02413200	Little Tallapoosa River near Bowdon, Ga.	Lat 33°30'48", long 85°14'03", Carroll County, Hydrologic Unit 03150108, at State Highway 5, 2.2 miles southeast of Bowdon.	a210	1949-77g	3-31-77	16.68	4,510

* Also a low-flow partial-record station.

a Approximately.

g Maximum gage height from graph based on gage readings.

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FACTORS FOR CONVERTING U.S. CUSTOMARY UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the U.S. customary units published herein to the International System of Units (SI). Subsequent reports will contain both the U.S. customary and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply U.S. customary 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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