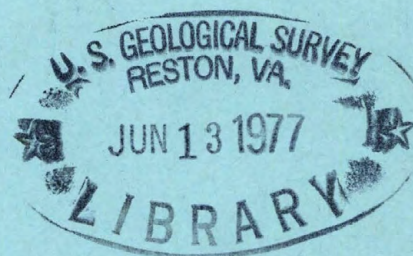


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# Water Resources Data for Georgia Water Year 1976



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT GA-76-1

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



# CALENDAR FOR WATER YEAR 1976

1 9 7 5

## O C T O B E R

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## F E B R U A R Y

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## J U L Y

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## A U G U S T

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## S E P T E M B E R

| S  | M  | T  | W  | T  | F  | S  |
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# **Water Resources Data for Georgia Water Year 1976**



**U.S. GEOLOGICAL SURVEY WATER-DATA REPORT GA-76-1**

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



UNITED STATES DEPARTMENT OF THE INTERIOR

CECIL D. ANDRUS, Secretary

GEOLOGICAL SURVEY

V. E. McKelvey, Director

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1977



## 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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(d) discharge, (g) gage height, (c) chemical, (b) biological,

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## WATER RESOURCES DATA FOR GEORGIA, 1976

### INTRODUCTION

Water resources data for the 1976 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 99 gaging stations; stage for 9 gaging stations; stage and contents for 16 lakes and reservoirs; water quality for 20 continuous stations and 108 periodic stations. Also included are 115 crest-stage partial-record stations, 3 miscellaneous discharge measurements and miscellaneous sediment samples at 24 gaging stations. Records for a few pertinent stations in bordering States are also included in this report. 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, U.S. Geological Survey, 1200 South Eads Street, Arlington, VA 22202.

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 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-76-1." 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  
City of Covington  
City of East Point  
City of Macon

## HYDROLOGIC CONDITIONS

Runoff for the year was above or near normal throughout the State. In the northern half of the State, annual runoff was excessive (in the upper 25 percent of record) at key index stations. Annual flows have been excessive for many streams for the last several years. At the Etowah River at Canton and Oconee River near Greensboro gaging stations the runoff was 147 and 144 percent of median, respectively. In the southern part of the State the annual runoff at Alapaha River at Statenville gaging station was 119 percent of median. Annual runoff was near or slightly below median in the Georgia Coastal Plain tributaries to the Savannah River and in the Flint River basin.

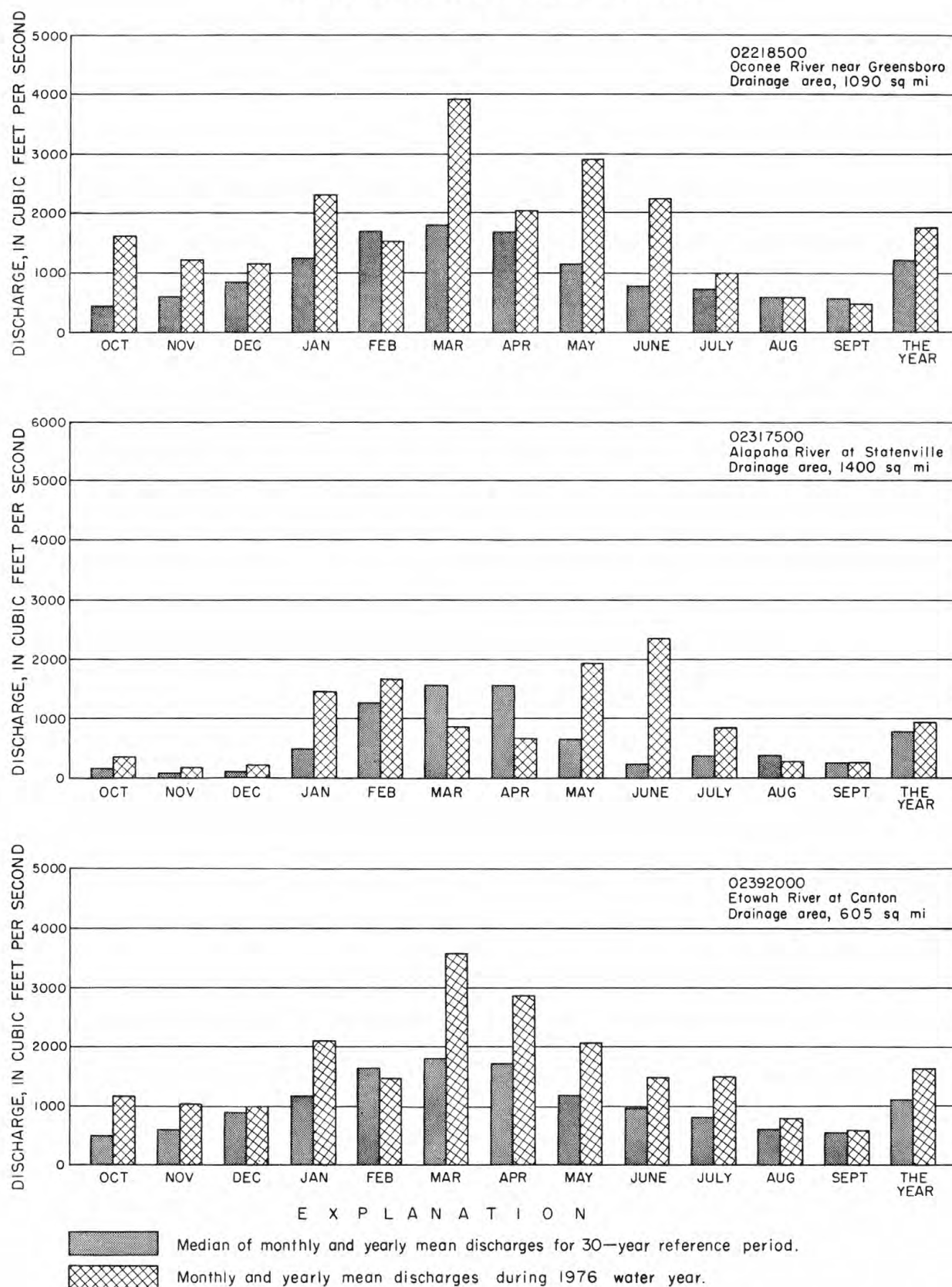


Figure 1.—Comparison of discharge at three long-term representative gaging stations during 1976 water year with median discharge for 30—year reference period.



The monthly runoff was generally above median for March and April in the northern part of the State and below median in the southern part. During May, June, and July, monthly runoff was generally above median Statewide.

Although the yearly runoff was generally much above normal, there were only a few periods of significant flooding affecting two relatively small areas. In mid-March flooding occurred in the Atlanta area with local streams reaching flood levels with recurrence intervals of 25 to 50 years. The maximum flow of record occurred on an urban stream, Peachtree Creek at Atlanta. In late March, flooding occurred in the Gainesville-Commerce area, also causing many local streams to reach flood levels with recurrence intervals of 25 to 50 years.

No drought conditions were reported during the year. The minimum flow for the year observed at most gaging stations was greater than the median low flow for the stations.

Figure 1 on page 3, based on records for the three long term representative gaging stations, shows graphically that the monthly and yearly mean discharge for the 1976 water year was generally much greater than the median discharge for the 30-year reference period.

#### 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  $44.5^{\circ}\text{C} \pm 0.2^{\circ}\text{C}$  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  $35^{\circ}\text{C} \pm 1.0^{\circ}\text{C}$  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 microorganisms, 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  $500^{\circ}\text{C}$  for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter ( $\text{g}/\text{m}^3$ ), and periphyton and benthic organisms in grams per square meter ( $\text{g}/\text{m}^2$ ).

Dry mass refers to the mass of residue present after drying in an oven at  $60^{\circ}\text{C}$  for zooplankton and  $105^{\circ}\text{C}$  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 salt water.

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

Cubic foot per second ( $\text{FT}^3/\text{s}$ ,  $\text{ft}^3/\text{s}$ ) 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 ( $\text{CaCO}_3$ ).

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 (UG/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 ( $1 \times 10^{12}$ ) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields  $3.7 \times 10^{10}$  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 unit of time, flowing in a channel.

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

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





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

### Other 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 for 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.

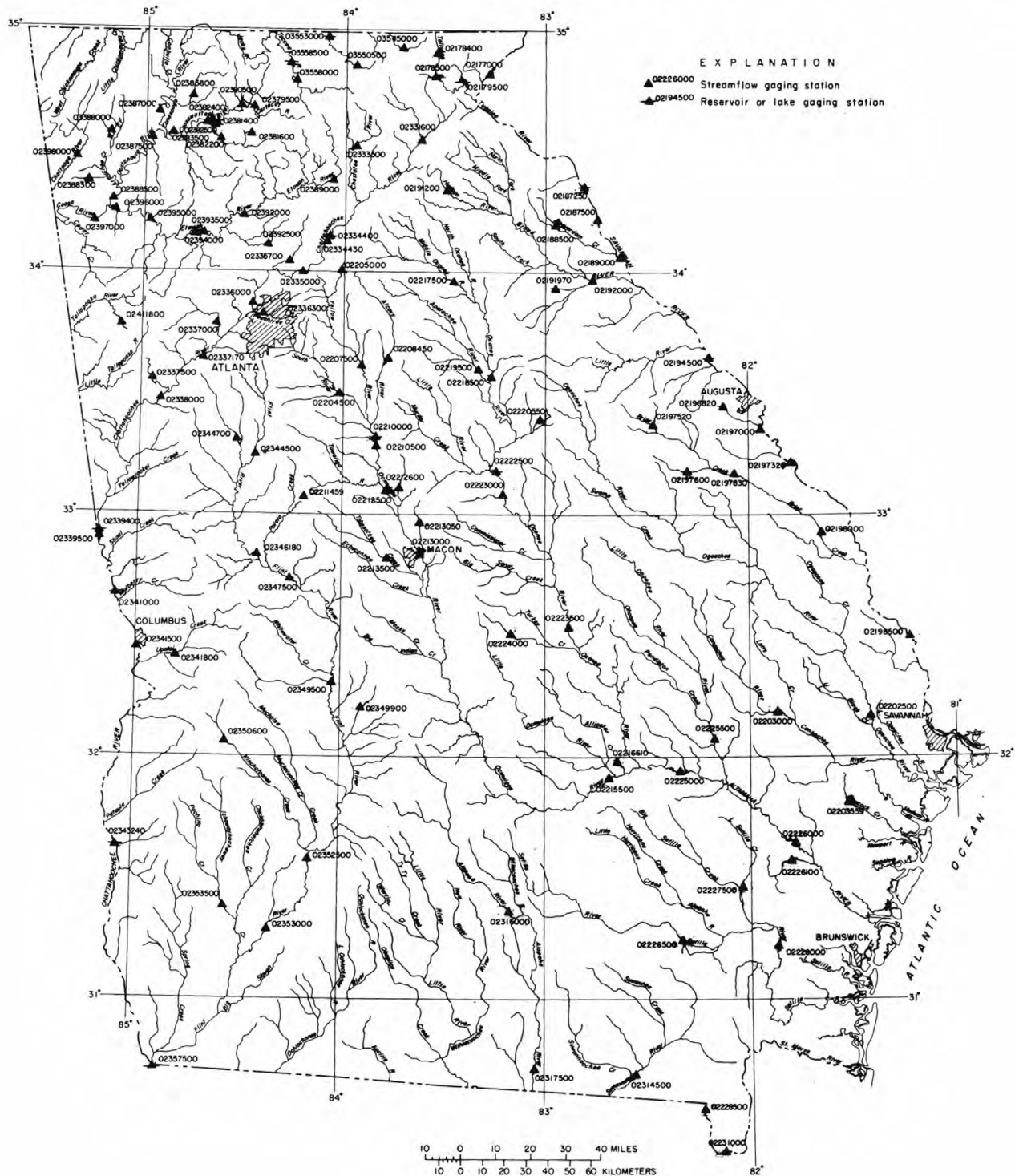


Figure 2.—Location of gaging stations.



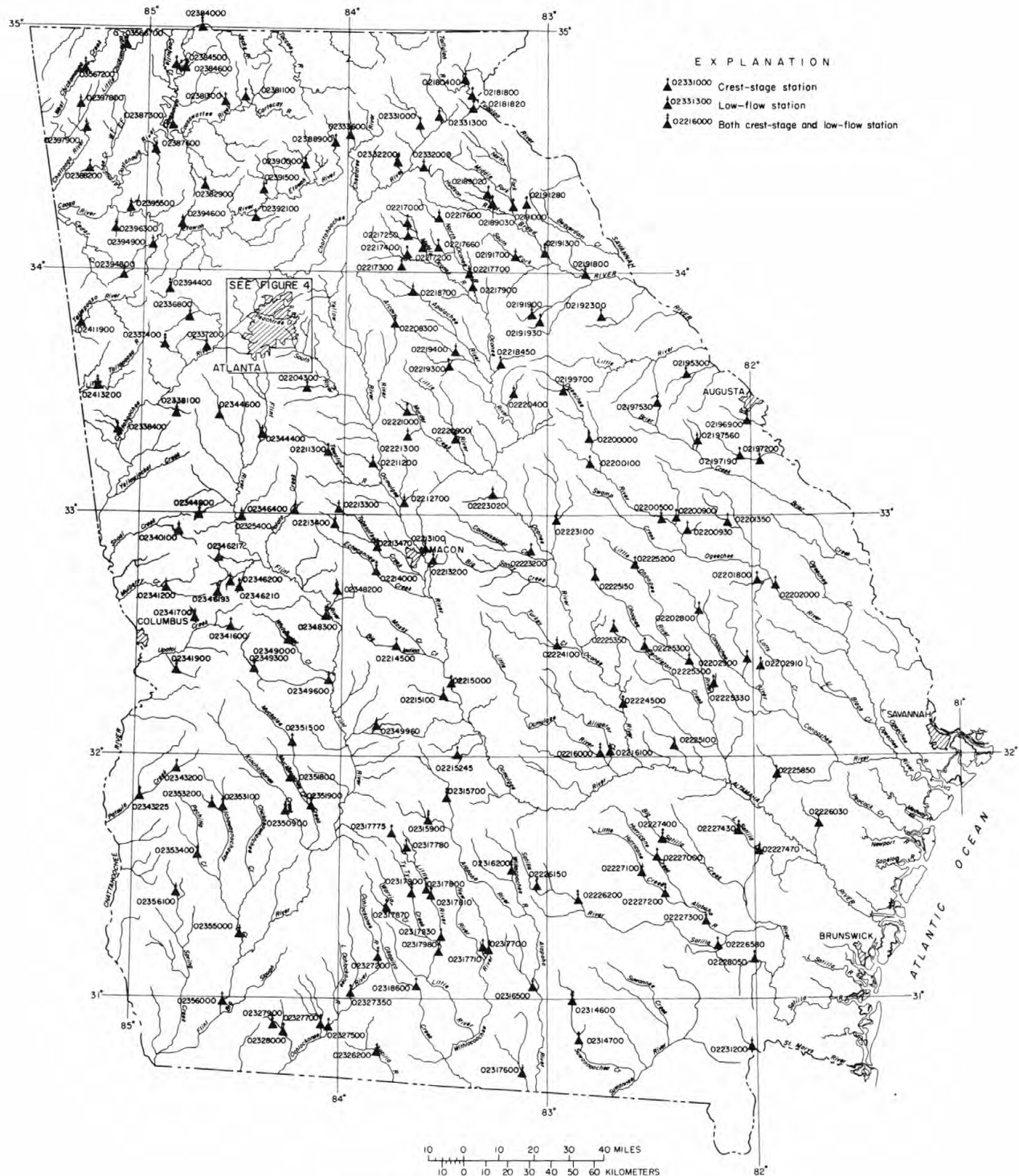


Figure 3.—Location of partial-record stations.



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

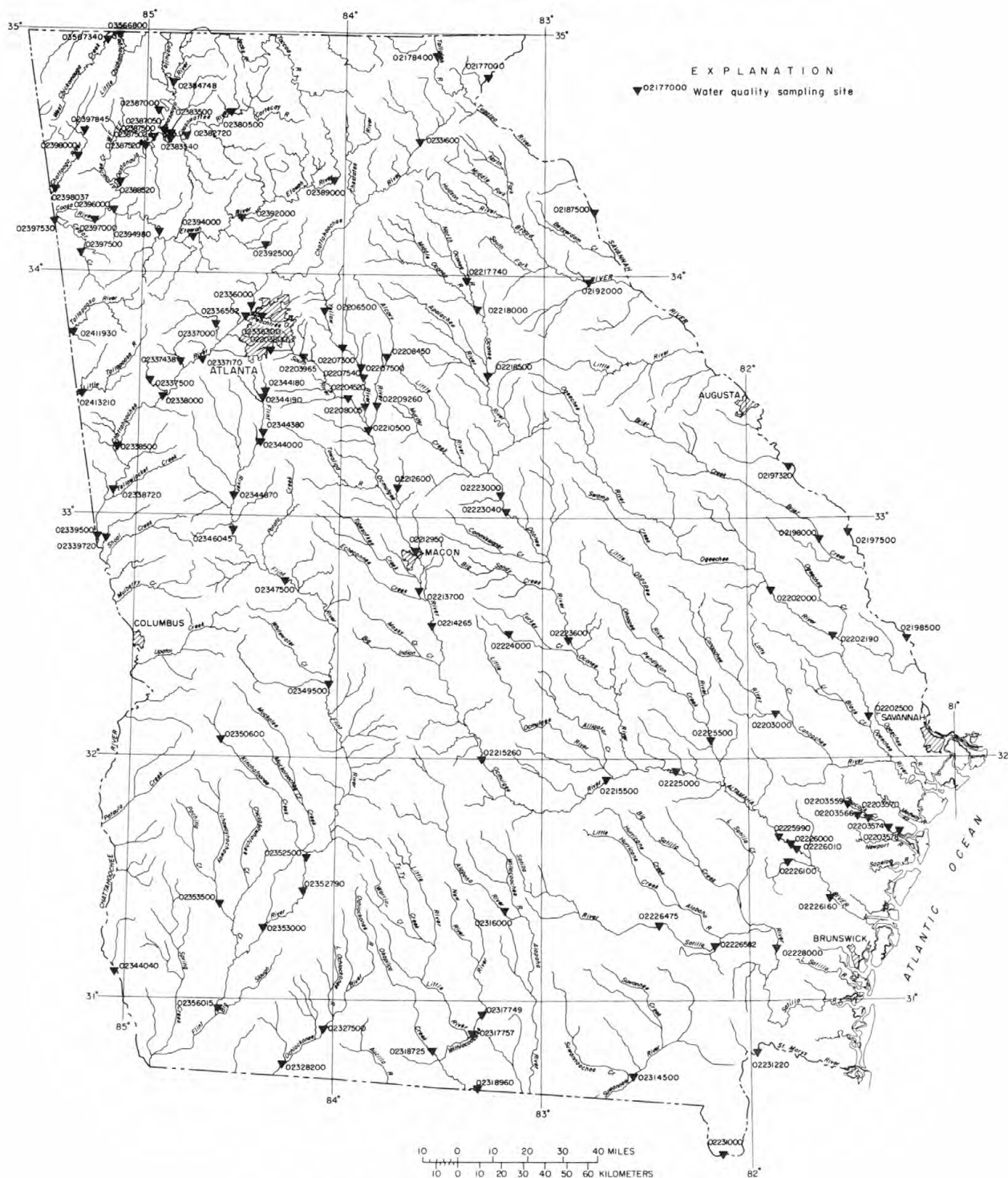


Figure 5.—Location of surface water quality stations.

## GAGING-STATION RECORDS

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## SAVANNAH RIVER BASIN

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA.

LOCATION.--Lat 34°48'50", long 83°18'22", Oconee County, S.C., 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 mi<sup>2</sup> (536 km<sup>2</sup>).

## 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.--Water-discharge record good.

AVERAGE DISCHARGE.--37 years (1939-76), 653 ft<sup>3</sup>/s (18.5 m<sup>3</sup>/s), 42.84 in/yr (1,088.1 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,000 ft<sup>3</sup>/s (821 m<sup>3</sup>/s) Aug. 30, 1940, gage height, 13.8 ft (4.206 m), from rating curve extended above 4,700 ft<sup>3</sup>/s (133 m<sup>3</sup>/s) on basis of slope-area measurements at gage heights 9.9 and 13.2 ft (3.018 and 4.023 m); minimum, 88 ft<sup>3</sup>/s (2.49 m<sup>3</sup>/s) Oct. 8, 12, 13, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,400 ft<sup>3</sup>/s (96.3 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Oct. 17 | 1815 | 7830 222                                              | 6.23 1.899              | May 15  | 1115 | *18500 524                                            | 10.37 3.161             |
| Dec. 31 | 1830 | 4740 134                                              | 4.75 1.448              | May 29  | 0400 | 13500 382                                             | 8.47 2.582              |
| Jan. 26 | 2330 | 3960 112                                              | 4.38 1.335              | June 20 | 0930 | 4920 139                                              | 4.73 1.442              |
| Apr. 1  | 0030 | 4500 127                                              | 4.67 1.423              |         |      |                                                       |                         |

Minimum discharge, 255 ft<sup>3</sup>/s (7.22 m<sup>3</sup>/s) Sept. 24, 25, 26, gage height, 1.18 ft (0.360 m).

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

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1     | 793   | 672   | 1010  | 2420  | 1030  | 586   | 2750  | 811   | 1940  | 1030  | 501   | 398   |
| 2     | 1010  | 650   | 863   | 1430  | 1060  | 570   | 1570  | 637   | 1890  | 985   | 472   | 383   |
| 3     | 758   | 628   | 784   | 1340  | 927   | 553   | 1280  | 535   | 1900  | 941   | 509   | 373   |
| 4     | 695   | 623   | 737   | 1230  | 869   | 549   | 1140  | 511   | 1660  | 1160  | 481   | 364   |
| 5     | 655   | 607   | 705   | 1060  | 837   | 542   | 1050  | 499   | 1520  | 1400  | 461   | 363   |
| 6     | 625   | 596   | 683   | 986   | 822   | 559   | 984   | 495   | 1420  | 1130  | 476   | 354   |
| 7     | 603   | 1180  | 679   | 1000  | 790   | 531   | 916   | 1050  | 1360  | 1010  | 547   | 339   |
| 8     | 1720  | 1070  | 664   | 1210  | 772   | 523   | 863   | 730   | 1330  | 960   | 536   | 330   |
| 9     | 1520  | 821   | 665   | 1010  | 736   | 708   | 824   | 607   | 1300  | 891   | 543   | 324   |
| 10    | 1020  | 1640  | 649   | 941   | 707   | 667   | 796   | 562   | 1260  | 876   | 465   | 315   |
| 11    | 872   | 1260  | 618   | 911   | 699   | 575   | 775   | 659   | 1240  | 838   | 428   | 301   |
| 12    | 795   | 1580  | 601   | 887   | 675   | 631   | 753   | 674   | 1170  | 802   | 414   | 301   |
| 13    | 743   | 2050  | 589   | 885   | 663   | 1140  | 731   | 580   | 1120  | 773   | 414   | 296   |
| 14    | 710   | 1330  | 584   | 1120  | 647   | 791   | 719   | 965   | 1200  | 746   | 441   | 309   |
| 15    | 683   | 1110  | 582   | 951   | 633   | 718   | 701   | 9690  | 1100  | 745   | 418   | 415   |
| 16    | 681   | 1010  | 624   | 899   | 625   | 1250  | 685   | 3580  | 1200  | 766   | 457   | 348   |
| 17    | 3220  | 940   | 590   | 861   | 613   | 1060  | 670   | 2590  | 1420  | 721   | 410   | 315   |
| 18    | 2780  | 886   | 562   | 798   | 712   | 857   | 655   | 1720  | 1370  | 689   | 393   | 298   |
| 19    | 1690  | 845   | 535   | 766   | 845   | 778   | 648   | 1480  | 1400  | 674   | 374   | 287   |
| 20    | 1430  | 822   | 534   | 775   | 682   | 743   | 640   | 1320  | 3230  | 668   | 363   | 286   |
| 21    | 1220  | 942   | 533   | 759   | 658   | 835   | 636   | 1210  | 2070  | 646   | 374   | 286   |
| 22    | 987   | 830   | 521   | 736   | 1070  | 774   | 646   | 1130  | 1510  | 623   | 471   | 275   |
| 23    | 921   | 812   | 511   | 717   | 892   | 716   | 580   | 1080  | 1350  | 681   | 433   | 261   |
| 24    | 869   | 800   | 500   | 712   | 772   | 684   | 571   | 1070  | 1270  | 637   | 408   | 259   |
| 25    | 831   | 764   | 603   | 715   | 722   | 676   | 582   | 1040  | 1200  | 601   | 370   | 255   |
| 26    | 803   | 739   | 1550  | 2100  | 679   | 669   | 556   | 982   | 1190  | 572   | 440   | 507   |
| 27    | 780   | 838   | 992   | 2840  | 648   | 769   | 538   | 951   | 1140  | 662   | 670   | 705   |
| 28    | 752   | 781   | 802   | 1550  | 625   | 733   | 522   | 3330  | 1200  | 564   | 655   | 555   |
| 29    | 732   | 741   | 729   | 1200  | 604   | 684   | 516   | 7680  | 1130  | 537   | 734   | 410   |
| 30    | 711   | 727   | 866   | 1070  | ---   | 1860  | 516   | 3050  | 1090  | 544   | 535   | 562   |
| 31    | 676   | ---   | 2930  | 993   | ---   | 2340  | ---   | 2250  | ---   | 522   | 437   | ---   |
| TOTAL | 32285 | 28294 | 23795 | 34872 | 22014 | 25071 | 24813 | 53468 | 43180 | 24394 | 14630 | 10774 |
| MEAN  | 1041  | 943   | 768   | 1125  | 759   | 809   | 827   | 1725  | 1439  | 787   | 472   | 359   |
| MAX   | 3220  | 2050  | 2930  | 2840  | 1070  | 2340  | 2750  | 9690  | 3230  | 1400  | 734   | 705   |
| MIN   | 603   | 596   | 500   | 712   | 604   | 523   | 516   | 495   | 1090  | 522   | 363   | 255   |
| CFSM  | 5.03  | 4.56  | 3.71  | 5.43  | 3.67  | 3.91  | 4.00  | 8.33  | 6.95  | 3.80  | 2.28  | 1.73  |
| IN.   | 5.80  | 5.08  | 4.28  | 6.27  | 3.96  | 4.51  | 4.46  | 9.61  | 7.76  | 4.38  | 2.63  | 1.94  |

CAL YR 1975 TOTAL 311315 MEAN 853 MAX 3850 MIN 233 CFSM 4.12 IN 55.95  
WTR YR 1976 TOTAL 337590 MEAN 922 MAX 9690 MIN 255 CFSM 4.45 IN 60.67



## SAVANNAH RIVER BASIN

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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|--------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT<br>22... | 0730 | 1000                                          | 6.3           | 10.0                        | 10.0                               |
| JAN<br>14... | 0900 | 1250                                          | 6.2           | 3.0                         | --                                 |
| MAR<br>10... | 1125 | 658                                           | 6.4           | 7.0                         | 11.7                               |
| JUN<br>10... | 1430 | 1220                                          | 6.1           | 17.0                        | 9.4                                |
| AUG<br>18... | 1400 | 388                                           | 6.7           | 22.0                        | 8.2                                |
| SEP<br>16... | 1110 | 324                                           | 6.6           | 17.0                        | 9.3                                |

| DATE          | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) |
|---------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| OCT.<br>22... | 4                                        | <.02                                                 | .10                                                | <.02                                      | 2                                  |
| JAN.<br>14... | 3                                        | .04                                                  | .32                                                | .04                                       | 2                                  |
| MAR.<br>10... | 5                                        | .03                                                  | <.02                                               | .03                                       | 4                                  |
| JUNE<br>10... | 4                                        | <.02                                                 | <.02                                               | <.02                                      | 4                                  |
| AUG.<br>18... | 5                                        | .02                                                  | .02                                                | <.02                                      | 4                                  |
| SEP.<br>16... | 5                                        | <.02                                                 | <.02                                               | .02                                       | 3                                  |

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>22... | 11                                                         | 5                                            | 3                            | .3                                                           | 1500                                             | 9.0                                         |
| JAN.<br>14... | 11                                                         | 20                                           | 14                           | .2                                                           | 2300                                             | 9.0                                         |
| MAR.<br>10... | 13                                                         | 5                                            | 5                            | .6                                                           | 36                                               | 1.0                                         |
| JUNE<br>10... | 15                                                         | 5                                            | 6                            | 1.8                                                          | 91                                               | 2.0                                         |
| AUG.<br>18... | 7                                                          | 8                                            | 3                            | .6                                                           | 91                                               | 3.0                                         |
| SEP.<br>16... | 14                                                         | 5                                            | 3                            | .3                                                           | 230                                              | 2.0                                         |

## SAVANNAH RIVER BASIN

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

LOCATION.--Lat 34°53'25", long 83°31'50", Rabun County, 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 mi<sup>2</sup> (146 km<sup>2</sup>).

## 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.--12 years, 207 ft<sup>3</sup>/s (5.86 m<sup>3</sup>/s), 49.75 in/yr (1,263.6 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 ft<sup>3</sup>/s (1.27 m<sup>3</sup>/s) Sept. 25, 26, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft<sup>3</sup>/s (34.0 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Oct. 17 | 1500 | 2520 71.4                                             | 6.53 1.990              | May 15 | 0330 | *6530 185                                             | 10.36 3.158             |
| Jan. 26 | 0930 | 1500 42.5                                             | 5.21 1.588              | May 28 | 2245 | 5620 159                                              | 9.67 2.947              |
| Mar. 31 | 1730 | 3460 98.0                                             | 7.56 2.304              |        |      |                                                       |                         |

Minimum discharge, 59 ft<sup>3</sup>/s (1.67 m<sup>3</sup>/s) Sept. 25, 26, gage height, 1.98 ft (0.604 m).

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

| DAY         | OCT   | NOV   | DEC      | JAN      | FEB    | MAR       | APR      | MAY   | JUN  | JUL  | AUG  | SEP  |
|-------------|-------|-------|----------|----------|--------|-----------|----------|-------|------|------|------|------|
| 1           | 258   | 114   | 229      | 620      | 331    | 170       | 1080     | 218   | 459  | 194  | 108  | 92   |
| 2           | 209   | 112   | 185      | 403      | 300    | 165       | 658      | 164   | 413  | 179  | 106  | 89   |
| 3           | 152   | 109   | 171      | 440      | 276    | 161       | 501      | 161   | 395  | 170  | 120  | 89   |
| 4           | 133   | 107   | 163      | 380      | 267    | 157       | 426      | 169   | 335  | 438  | 150  | 87   |
| 5           | 123   | 104   | 156      | 320      | 266    | 159       | 381      | 140   | 305  | 554  | 130  | 87   |
| 6           | 115   | 103   | 151      | 283      | 262    | 177       | 349      | 139   | 290  | 356  | 120  | 82   |
| 7           | 109   | 262   | 148      | 315      | 244    | 156       | 328      | 332   | 273  | 286  | 115  | 79   |
| 8           | 224   | 166   | 143      | 313      | 231    | 152       | 299      | 195   | 260  | 245  | 110  | 78   |
| 9           | 171   | 141   | 142      | 271      | 221    | 224       | 284      | 172   | 250  | 220  | 105  | 74   |
| 10          | 143   | 309   | 135      | 252      | 214    | 184       | 270      | 161   | 273  | 202  | 102  | 78   |
| 11          | 129   | 238   | 130      | 252      | 210    | 171       | 262      | 221   | 247  | 189  | 93   | 73   |
| 12          | 120   | 446   | 127      | 239      | 201    | 252       | 252      | 189   | 236  | 180  | 91   | 72   |
| 13          | 112   | 459   | 125      | 262      | 197    | 336       | 242      | 184   | 220  | 170  | 91   | 70   |
| 14          | 107   | 312   | 126      | 332      | 191    | 252       | 234      | 491   | 216  | 161  | 88   | 73   |
| 15          | 103   | 254   | 125      | 276      | 187    | 242       | 226      | 3400  | 207  | 155  | 111  | 84   |
| 16          | 100   | 221   | 173      | 257      | 183    | 429       | 218      | 1010  | 212  | 151  | 98   | 72   |
| 17          | 1080  | 198   | 141      | 238      | 180    | 338       | 211      | 620   | 205  | 147  | 89   | 68   |
| 18          | 597   | 180   | 132      | 215      | 278    | 281       | 203      | 445   | 194  | 138  | 87   | 66   |
| 19          | 332   | 171   | 124      | 204      | 240    | 251       | 194      | 372   | 254  | 134  | 81   | 67   |
| 20          | 257   | 173   | 124      | 200      | 213    | 248       | 191      | 319   | 422  | 135  | 81   | 67   |
| 21          | 215   | 203   | 121      | 192      | 216    | 299       | 187      | 280   | 256  | 133  | 84   | 72   |
| 22          | 190   | 168   | 117      | 182      | 261    | 262       | 183      | 270   | 225  | 143  | 100  | 64   |
| 23          | 172   | 171   | 115      | 178      | 231    | 241       | 177      | 254   | 208  | 132  | 90   | 62   |
| 24          | 160   | 162   | 113      | 182      | 215    | 225       | 166      | 242   | 198  | 128  | 84   | 61   |
| 25          | 150   | 156   | 242      | 188      | 204    | 217       | 168      | 229   | 191  | 122  | 79   | 61   |
| 26          | 144   | 151   | 482      | 960      | 197    | 215       | 167      | 217   | 196  | 118  | 137  | 124  |
| 27          | 140   | 180   | 279      | 739      | 187    | 250       | 162      | 223   | 183  | 116  | 294  | 266  |
| 28          | 132   | 159   | 228      | 486      | 180    | 223       | 158      | 1430  | 205  | 114  | 162  | 144  |
| 29          | 127   | 152   | 200      | 382      | 174    | 281       | 155      | 1770  | 207  | 112  | 128  | 114  |
| 30          | 121   | 161   | 235      | 327      | ---    | 941       | 156      | 772   | 227  | 110  | 108  | 157  |
| 31          | 117   | ---   | 774      | 296      | ---    | 1430      | ---      | 551   | ---  | 109  | 96   | ---  |
| TOTAL       | 6242  | 5842  | 5856     | 10184    | 6557   | 9089      | 8488     | 15340 | 7762 | 5741 | 3438 | 2672 |
| MEAN        | 201   | 195   | 189      | 329      | 226    | 293       | 283      | 495   | 259  | 185  | 111  | 89.1 |
| MAX         | 1080  | 459   | 774      | 960      | 331    | 1430      | 1080     | 3400  | 459  | 554  | 294  | 266  |
| MIN         | 100   | 103   | 113      | 178      | 174    | 152       | 155      | 139   | 183  | 109  | 79   | 61   |
| CFSM        | 3.56  | 3.45  | 3.35     | 5.82     | 4.00   | 5.19      | 5.01     | 8.76  | 4.58 | 3.27 | 1.96 | 1.58 |
| IN.         | 4.11  | 3.85  | 3.86     | 6.71     | 4.32   | 5.98      | 5.59     | 10.10 | 5.11 | 3.78 | 2.26 | 1.76 |
| CAL YR 1975 | TOTAL | 82077 | MEAN 225 | MAX 1450 | MIN 57 | CFSM 3.98 | IN 54.04 |       |      |      |      |      |
| WTR YR 1976 | TOTAL | 87211 | MEAN 238 | MAX 3400 | MIN 61 | CFSM 4.21 | IN 57.42 |       |      |      |      |      |

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, freezing point on several days during December 1968 to March 1969, January 1970, January and February 1971, Dec. 3, 1971, Feb. 17, 1973, Dec. 10, 18, 1974.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 24.0°C Aug. 25; minimum recorded, 3.0°C Jan. 15.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPECIFIC<br>CONDUCTANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPERATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|------------------------------------------|---------------------------------------------|---------------|------------------------|------------------------------------|
| MAR.<br>26... | 1430 | 204                                      | 19                                          | 6.6           | 13.0                   | 9.8                                |
| MAY<br>05...  | 1330 | 142                                      | 13                                          | 5.9           | 14.0                   | 10.1                               |

| DATE          | DIS-<br>SOLVED<br>SILICA<br>(SIO2)<br>(MG/L) | DIS-<br>SOLVED<br>ALUM-<br>INUM<br>(AL)<br>(UG/L) | DIS-<br>SOLVED<br>IRON<br>(FE)<br>(UG/L) | DIS-<br>SOLVED<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | RICAR-<br>RONATE<br>(HCO3)<br>(MG/L) | CAR-<br>BONATE<br>(CO3)<br>(MG/L) | ALKA-<br>LINITY<br>AS<br>CAC03<br>(MG/L) |
|---------------|----------------------------------------------|---------------------------------------------------|------------------------------------------|----------------------------------------------------|--------------------------------------------------|---------------------------------------------------------|--------------------------------------------|--------------------------------------------------------|--------------------------------------|-----------------------------------|------------------------------------------|
| MAR.<br>26... | 7.4                                          | 20                                                | 0                                        | 0                                                  | .0                                               | .3                                                      | .9                                         | .4                                                     | 2                                    | 0                                 | 2                                        |
| MAY<br>05...  | 7.4                                          | 10                                                | 10                                       | 0                                                  | 1.2                                              | .1                                                      | .9                                         | .4                                                     | 7                                    | 0                                 | 6                                        |

| DATE          | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRATE<br>(NO3)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>(NO2)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|---------------|----------------------------------------------|---------------------------------------------------|--------------------------------------------------|--------------------------------------------|----------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------|
| MAR.<br>26... | .5                                           | .8                                                | .1                                               | .02                                        | .09                                          | .00                                        | .00                                          | .01                                                  | .02                                                           | .00                                                | .01                                                         |
| MAY<br>05...  | 2.0                                          | .4                                                | .1                                               | .02                                        | .09                                          | .00                                        | .00                                          | .01                                                  | .02                                                           | .00                                                | .01                                                         |

| DATE          | DIS-<br>SOLVED<br>AMMONIA<br>(NH4)<br>(MG/L) | TOTAL<br>ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>ORTHOPHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHOPHOS-<br>PHATE<br>(P04)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHOPHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) |
|---------------|----------------------------------------------|----------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------|------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------|
| MAR.<br>26... | .01                                          | .02                                                | .02                                                      | .03                                     | .13                                       | .03                                       | .00                                                | .00                                            | .00                                                      | .00                                                     | 18                                                               |
| MAY<br>05...  | .01                                          | .05                                                | .05                                                      | .06                                     | .27                                       | .00                                       | .00                                                | .00                                            | .00                                                      | .00                                                     | 14                                                               |

| DATE          | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | DIS-<br>SOLVED<br>ARSENIC<br>(AS)<br>(UG/L) | DIS-<br>SOLVED<br>CAD-<br>MIUM<br>(CD)<br>(UG/L) | DIS-<br>SOLVED<br>CHRO-<br>MIUM<br>(CR)<br>(UG/L) | DIS-<br>SOLVED<br>COPPER<br>(CU)<br>(UG/L) | DIS-<br>SOLVED<br>LEAD<br>(PB)<br>(UG/L) | DIS-<br>SOLVED<br>MERCURY<br>(HG)<br>(UG/L) | DIS-<br>SOLVED<br>SELE-<br>NIUM<br>(SE)<br>(UG/L) | DIS-<br>SOLVED<br>ZINC<br>(ZN)<br>(UG/L) |
|---------------|------------------------------------|---------------------------------------------------|----------------------------------------------|---------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------|------------------------------------------|---------------------------------------------|---------------------------------------------------|------------------------------------------|
| MAR.<br>26... | 1                                  | 0                                                 | 5                                            | 0                                           | 0                                                | 0                                                 | 0                                          | 2                                        | .2                                          | 0                                                 | 0                                        |
| MAY<br>05...  | 3                                  | 0                                                 | 0                                            | 0                                           | 2                                                | 2                                                 | 0                                          | 6                                        | .0                                          | 0                                                 | 10                                       |

02178400 TALLULAH RIVER NEAR CLAYTON, GA.--Continued

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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



## SAVANNAH RIVER BASIN

02187500 SAVANNAH RIVER NEAR IVA, S.C.

LOCATION.--Lat 34°15'20", long 82°44'42", Anderson County, on left bank at downstream side of bridge on State Highway 184, 0.5 mi (0.8 km) upstream from Little Genorostee Creek, 5.8 mi (9.3 km) southwest of Iva, and at mile 296.5 (477.1 km).  
DRAINAGE AREA.--2,231 mi<sup>2</sup> (5,778 km<sup>2</sup>).

## 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 powerplants above station, by Lake Burton, Mathis Reservoir and Hartwell Lake (see stations 02178500, 02179500, and 02187250).  
AVERAGE DISCHARGE.--27 years, 4,422 ft<sup>3</sup>/s (125 m<sup>3</sup>/s), 26.92 in/yr (683.8 mm/yr).  
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,400 ft<sup>3</sup>/s (1,540 m<sup>3</sup>/s) Mar. 12, 1952, gage height, 12.74 ft (3.883 m); minimum, 75 ft<sup>3</sup>/s (2.12 m<sup>3</sup>/s) Oct. 24, 1961; minimum daily, 78 ft<sup>3</sup>/s (2.21 m<sup>3</sup>/s) Oct. 23, 24, 1961.  
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29,600 ft<sup>3</sup>/s (838 m<sup>3</sup>/s) Mar. 31, gage height, 8.23 ft (2.509 m); minimum, 114 ft<sup>3</sup>/s (3.23 m<sup>3</sup>/s) Sept. 19; minimum daily, 126 ft<sup>3</sup>/s (3.57 m<sup>3</sup>/s) Sept. 19.

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

| DAY         | OCT     | NOV     | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1           | 10100   | 1760    | 4500   | 3520   | 476    | 11000  | 13100  | 842    | 17000  | 8490   | 720    | 5190   |
| 2           | 3520    | 252     | 9000   | 5790   | 7880   | 6040   | 16700  | 383    | 18200  | 11800  | 4480   | 5580   |
| 3           | 2390    | 8000    | 8000   | 797    | 6560   | 6400   | 6560   | 3880   | 18400  | 991    | 3080   | 7240   |
| 4           | 1050    | 10300   | 7000   | 853    | 4450   | 7320   | 1250   | 4300   | 18400  | 830    | 3000   | 1590   |
| 5           | 282     | 11100   | 6000   | 7800   | 7560   | 7640   | 14600  | 4360   | 17900  | 1980   | 4630   | 390    |
| 6           | 6560    | 10800   | 2000   | 3580   | 7920   | 934    | 16500  | 8720   | 9580   | 9750   | 4630   | 450    |
| 7           | 11700   | 9940    | 500    | 4300   | 1220   | 413    | 15900  | 4300   | 17000  | 11000  | 1040   | 3150   |
| 8           | 12000   | 991     | 6320   | 4950   | 330    | 4060   | 14900  | 1000   | 17100  | 11100  | 764    | 3180   |
| 9           | 8990    | 294     | 9980   | 11900  | 8770   | 4600   | 13200  | 315    | 17200  | 10400  | 5860   | 6840   |
| 10          | 6560    | 8540    | 15200  | 1650   | 9800   | 5160   | 1260   | 4210   | 17200  | 1030   | 3000   | 3490   |
| 11          | 888     | 5370    | 13700  | 368    | 11600  | 5230   | 405    | 3610   | 17200  | 4420   | 5300   | 808    |
| 12          | 282     | 5230    | 13600  | 3670   | 9410   | 4640   | 12400  | 2550   | 6160   | 9440   | 7440   | 690    |
| 13          | 6440    | 12400   | 1890   | 3880   | 11300  | 2150   | 13400  | 3910   | 1120   | 10300  | 7800   | 2010   |
| 14          | 6760    | 11700   | 323    | 3970   | 3200   | 830    | 5970   | 8450   | 2330   | 10100  | 1030   | 3250   |
| 15          | 7720    | 1260    | 9800   | 8950   | 405    | 6120   | 6520   | 2730   | 2630   | 10400  | 753    | 2930   |
| 16          | 9080    | 353     | 12800  | 8590   | 7320   | 9670   | 5230   | 1520   | 3250   | 11100  | 5750   | 5480   |
| 17          | 5440    | 9800    | 12100  | 3910   | 3820   | 8000   | 1030   | 13500  | 3670   | 1160   | 5790   | 3080   |
| 18          | 1890    | 12600   | 16900  | 1340   | 4360   | 6920   | 353    | 17300  | 3100   | 753    | 3200   | 390    |
| 19          | 612     | 11900   | 11000  | 8500   | 4480   | 6400   | 3490   | 18500  | 509    | 9210   | 3050   | 126    |
| 20          | 9400    | 11500   | 3640   | 6640   | 6200   | 1120   | 10600  | 18500  | 458    | 12600  | 3030   | 5750   |
| 21          | 10300   | 7960    | 345    | 5020   | 1140   | 578    | 9980   | 18500  | 6760   | 13600  | 887    | 4000   |
| 22          | 10200   | 8590    | 8360   | 7320   | 1530   | 6240   | 10200  | 1460   | 8540   | 13700  | 3670   | 4840   |
| 23          | 10900   | 1060    | 8630   | 5440   | 8150   | 7160   | 10200  | 294    | 11200  | 11400  | 12400  | 4880   |
| 24          | 11200   | 5000    | 3970   | 957    | 5340   | 9580   | 980    | 6720   | 10200  | 9530   | 10100  | 7320   |
| 25          | 1070    | 17000   | 700    | 294    | 5060   | 10900  | 330    | 7160   | 13600  | 6320   | 11500  | 5300   |
| 26          | 282     | 16000   | 6680   | 3610   | 6560   | 10200  | 4240   | 8140   | 9570   | 11600  | 6560   | 933    |
| 27          | 8990    | 16000   | 865    | 13700  | 6120   | 3880   | 4740   | 10400  | 4670   | 3350   | 7200   | 11300  |
| 28          | 9350    | 16000   | 315    | 11600  | 1250   | 484    | 4780   | 7040   | 9260   | 4240   | 1710   | 4210   |
| 29          | 13900   | 3500    | 6840   | 11600  | 323    | 12800  | 4780   | 5340   | 8900   | 4270   | 956    | 7400   |
| 30          | 16300   | 2000    | 6840   | 12400  | ---    | 15300  | 4450   | 4240   | 8850   | 4240   | 5890   | 3280   |
| 31          | 16000   | ---     | 9260   | 1350   | ---    | 16900  | ---    | 16400  | ---    | 945    | 3970   | ---    |
| TOTAL       | *220156 | 237200  | 217058 | 168249 | 152534 | 198669 | 228048 | 208574 | 299957 | 230049 | 139190 | 115077 |
| MEAN        | 7102    | 7907    | 7002   | 5427   | 5260   | 6409   | 7602   | 6728   | 9999   | 7421   | 4490   | 3836   |
| MAX         | 16300   | 17000   | 16900  | 13700  | 11600  | 16900  | 16700  | 18500  | 18400  | 13700  | 12400  | 11300  |
| MIN         | 282     | 252     | 315    | 294    | 323    | 413    | 330    | 294    | 458    | 753    | 720    | 126    |
| (+)         | -163    | +20     | -246   | +41    | +73    | +439   | -62    | +174   | -47    | -88    | -70    | -7     |
| (*)         | -649    | -2016   | -1129  | +2252  | +645   | +2396  | -1413  | +3693  | -2249  | -2177  | -1626  | -1103  |
| CAL YR 1975 | TOTAL   | 2297259 | MEAN   | 6294   | MAX    | 19200  | MIN    | 252    |        |        |        |        |
| WTR YR 1976 | TOTAL   | 2414761 | MEAN   | 6598   | MAX    | 18500  | MIN    | 126    |        |        |        |        |

+ Combined change in contents, equivalent in cubic feet per second, in Lake Burton and Mathis Reservoir.

+ Change in contents, equivalent in cubic feet per second, in Hartwell Lake.

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

## WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| NOV.<br>04... | 1715 | 11600                                         | 6.5           | 19.0                        | 6.7                                |
| JAN.<br>20... | 1110 | 22300                                         | 6.7           | 8.0                         | 11.5                               |
| MAR.<br>10... | 1400 | 5030                                          | 6.8           | 7.5                         | 11.4                               |
| JUNE<br>10... | 1230 | 24100                                         | 6.7           | 14.0                        | 7.2                                |
| SEP.<br>16... | 0900 | 260                                           | 6.9           | 19.0                        | 5.3                                |

| DATE          | TOTAL<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) |
|---------------|---------------------------------|-------------------------------------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|
| NOV.<br>04... | 770                             | 390                                       | 12                                       | .02                                                  | .07                                                | .02                                       |
| JAN.<br>20... | 180                             | <50                                       | 8                                        | .10                                                  | <.02                                               | <.02                                      |
| MAR.<br>10... | 140                             | <50                                       | 10                                       | .14                                                  | <.02                                               | .03                                       |
| JUNE<br>10... | 230                             | 50                                        | 8                                        | .17                                                  | <.02                                               | <.02                                      |
| SEP.<br>16... | 220                             | 140                                       | 9                                        | .11                                                  | <.02                                               | <.02                                      |

| DATE          | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| NOV.<br>04... | 7                                  | 29                                                         | 5                                            | 3                            | .3                                                           | 73                                               | 1.0                                         |
| JAN.<br>20... | 7                                  | 29                                                         | 5                                            | 4                            | .3                                                           | <30                                              | 2.0                                         |
| MAR.<br>10... | 8                                  | 30                                                         | <5                                           | 3                            | .7                                                           | 750                                              | 3.0                                         |
| JUNE<br>10... | 6                                  | 28                                                         | 5                                            | 3                            | .8                                                           | <30                                              | 2.0                                         |
| SEP.<br>16... | 8                                  | 28                                                         | <5                                           | 3                            | .1                                                           | 430                                              | 2.0                                         |

## 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, 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 mi<sup>2</sup> (92.7 km<sup>2</sup>).

PERIOD OF RECORD.--October 1942 to current year.

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 fair.

AVERAGE DISCHARGE.--34 years, 51.9 ft<sup>3</sup>/s (1.47 m<sup>3</sup>/s), 19.69 in/yr (500.1 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,570 ft<sup>3</sup>/s (186 m<sup>3</sup>/s) June 4, 1967, gage height, 16.9 ft (5.15 m), from floodmark, from rating curve extended above 2,000 ft<sup>3</sup>/s (56.6 m<sup>3</sup>/s) on basis of slope-area and contracted-opening measurements of peak flow; minimum, 0.80 ft<sup>3</sup>/s (0.023 m<sup>3</sup>/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 ft<sup>3</sup>/s (19.8 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Mar. 16 | 1930 | *1380 39.1                                            | 8.26 2.518              | Apr. 1 | 0430 | 758 21.5                                              | 6.03 1.838              |

Minimum discharge, 12 ft<sup>3</sup>/s (0.340 m<sup>3</sup>/s) Sept. 12, 13, 14, gage height, 1.27 ft (0.387 m).

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

| DAY         | OCT   | NOV   | DEC       | JAN      | FEB    | MAR       | APR      | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------------|-------|-------|-----------|----------|--------|-----------|----------|------|------|------|------|------|
| 1           | 29    | 31    | 53        | 74       | 85     | 43        | 510      | 45   | 68   | 35   | 20   | 16   |
| 2           | 60    | 32    | 50        | 71       | 114    | 42        | 163      | 41   | 67   | 30   | 19   | 16   |
| 3           | 41    | 32    | 45        | 67       | 83     | 41        | 122      | 37   | 86   | 28   | 18   | 15   |
| 4           | 34    | 32    | 43        | 66       | 74     | 40        | 105      | 34   | 87   | 36   | 18   | 16   |
| 5           | 32    | 31    | 42        | 61       | 68     | 39        | 93       | 34   | 61   | 136  | 17   | 17   |
| 6           | 31    | 31    | 41        | 57       | 62     | 42        | 82       | 33   | 50   | 98   | 18   | 16   |
| 7           | 30    | 39    | 42        | 60       | 58     | 46        | 74       | 34   | 45   | 71   | 28   | 16   |
| 8           | 43    | 47    | 42        | 70       | 55     | 41        | 68       | 35   | 41   | 53   | 21   | 18   |
| 9           | 70    | 39    | 40        | 66       | 52     | 58        | 63       | 38   | 38   | 45   | 22   | 15   |
| 10          | 46    | 109   | 41        | 59       | 50     | 60        | 59       | 33   | 35   | 40   | 19   | 14   |
| 11          | 40    | 84    | 39        | 55       | 49     | 49        | 56       | 33   | 35   | 37   | 18   | 13   |
| 12          | 36    | 78    | 38        | 52       | 48     | 55        | 53       | 32   | 32   | 34   | 17   | 12   |
| 13          | 34    | 178   | 38        | 51       | 49     | 282       | 51       | 31   | 31   | 32   | 17   | 12   |
| 14          | 33    | 93    | 38        | 49       | 49     | 124       | 50       | 31   | 29   | 31   | 17   | 16   |
| 15          | 31    | 72    | 38        | 46       | 49     | 104       | 48       | 84   | 30   | 28   | 20   | 33   |
| 16          | 30    | 62    | 39        | 44       | 49     | 732       | 46       | 149  | 30   | 29   | 98   | 27   |
| 17          | 81    | 56    | 42        | 42       | 49     | 490       | 45       | 61   | 31   | 27   | 50   | 21   |
| 18          | 201   | 52    | 47        | 40       | 49     | 157       | 46       | 44   | 30   | 25   | 36   | 19   |
| 19          | 84    | 48    | 41        | 37       | 50     | 130       | 42       | 37   | 30   | 24   | 30   | 17   |
| 20          | 64    | 46    | 40        | 36       | 47     | 113       | 40       | 33   | 77   | 26   | 25   | 17   |
| 21          | 53    | 47    | 40        | 38       | 47     | 109       | 40       | 30   | 73   | 41   | 23   | 18   |
| 22          | 47    | 44    | 39        | 38       | 67     | 94        | 39       | 28   | 51   | 31   | 23   | 17   |
| 23          | 42    | 45    | 38        | 37       | 63     | 81        | 37       | 30   | 43   | 27   | 21   | 15   |
| 24          | 40    | 52    | 38        | 38       | 54     | 73        | 38       | 29   | 39   | 25   | 20   | 15   |
| 25          | 38    | 47    | 40        | 38       | 52     | 68        | 38       | 44   | 35   | 24   | 19   | 15   |
| 26          | 36    | 45    | 53        | 56       | 50     | 65        | 38       | 40   | 33   | 23   | 20   | 15   |
| 27          | 35    | 44    | 55        | 300      | 48     | 63        | 34       | 34   | 32   | 23   | 20   | 18   |
| 28          | 34    | 44    | 47        | 296      | 47     | 61        | 35       | 54   | 31   | 26   | 20   | 24   |
| 29          | 34    | 43    | 43        | 128      | 45     | 57        | 34       | 294  | 32   | 23   | 19   | 24   |
| 30          | 33    | 42    | 46        | 103      | ---    | 127       | 36       | 135  | 41   | 22   | 18   | 61   |
| 31          | 32    | ---   | 72        | 89       | ---    | 278       | ---      | 87   | ---  | 21   | 17   | ---  |
| TOTAL       | 1474  | 1645  | 1350      | 2264     | 1662   | 3764      | 2185     | 1704 | 1343 | 1151 | 748  | 568  |
| MEAN        | 47.5  | 54.8  | 43.5      | 73.0     | 57.3   | 121       | 72.8     | 55.0 | 44.8 | 37.1 | 24.1 | 18.9 |
| MAX         | 201   | 178   | 72        | 300      | 114    | 732       | 510      | 294  | 87   | 136  | 98   | 61   |
| MIN         | 29    | 31    | 38        | 36       | 45     | 39        | 34       | 28   | 29   | 21   | 17   | 12   |
| CFSM        | 1.33  | 1.53  | 1.22      | 2.04     | 1.60   | 3.38      | 2.03     | 1.54 | 1.25 | 1.04 | .67  | .53  |
| IN.         | 1.53  | 1.71  | 1.40      | 2.35     | 1.73   | 3.91      | 2.27     | 1.77 | 1.40 | 1.20 | .78  | .59  |
| CAL YR 1975 | TOTAL | 25215 | MEAN 69.1 | MAX 2140 | MIN 16 | CFSM 1.93 | IN 26.20 |      |      |      |      |      |
| WTR YR 1976 | TOTAL | 19858 | MEAN 54.3 | MAX 732  | MIN 12 | CFSM 1.52 | IN 20.63 |      |      |      |      |      |

## 02189000 SAVANNAH RIVER NEAR CALHOUN FALLS, S.C.

LOCATION.--Lat 34°04'15", long 82°38'30", Abbeville County, 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 mi<sup>2</sup> (7,449 km<sup>2</sup>).

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 powerplants above station, by Lake Burton, Mathis Reservoir, and Hartwell Lake (see 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.--41 years (1896-97, 1899-1900, 1930-31, 1938-76), 5,249 ft<sup>3</sup>/s (149 m<sup>3</sup>/s), 24.79 in/yr (629.7 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 96,500 ft<sup>3</sup>/s (2,730 m<sup>3</sup>/s) Aug. 13, 1940, gage height, 11.52 ft (3.51 m), from rating curve extended above 50,000 ft<sup>3</sup>/s (1,420 m<sup>3</sup>/s), by velocity-area studies; minimum daily, 300 ft<sup>3</sup>/s (8.50 m<sup>3</sup>/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 ft<sup>3</sup>/s (4,080 m<sup>3</sup>/s), from rating curve extended above 14,000 ft<sup>3</sup>/s (396 m<sup>3</sup>/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 39,400 ft<sup>3</sup>/s (1,120 m<sup>3</sup>/s) Mar. 16, gage height, 6.72 ft (2.048 m); minimum daily, 982 ft<sup>3</sup>/s (27.8 m<sup>3</sup>/s) Sept. 6.

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

| DAY         | OCT    | NOV     | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1           | 12000  | 7550    | 4300   | 8680   | 1550   | 8250   | 19700  | 2420   | 18100  | 8540   | 1290   | 3900   |
| 2           | 6730   | 1110    | 7850   | 5970   | 7150   | 8980   | 18000  | 1150   | 19700  | 10400  | 3440   | 6230   |
| 3           | 3110   | 4710    | 7800   | 3080   | 7750   | 6640   | 12000  | 3030   | 19900  | 5630   | 3800   | 8540   |
| 4           | 3060   | 10500   | 7800   | 1590   | 6510   | 7200   | 3970   | 4800   | 20000  | 1020   | 3210   | 2890   |
| 5           | 1190   | 12000   | 6370   | 6510   | 6870   | 9520   | 11800  | 4590   | 20400  | 3800   | 4370   | 1630   |
| 6           | 4200   | 11400   | 2820   | 6150   | 9100   | 3030   | 17300  | 8800   | 12500  | 9230   | 4900   | 982    |
| 7           | 12900  | 11300   | 1130   | 5290   | 5020   | 1170   | 17600  | 5200   | 16000  | 12800  | 2780   | 2160   |
| 8           | 13200  | 5650    | 4340   | 5380   | 1340   | 3850   | 17200  | 2880   | 18000  | 12600  | 1290   | 3290   |
| 9           | 11100  | 1200    | 9040   | 10100  | 6550   | 5340   | 15300  | 1180   | 18100  | 9730   | 4960   | 5140   |
| 10          | 7550   | 5880    | 15800  | 7000   | 10700  | 5340   | 5520   | 3060   | 18100  | 5970   | 3600   | 5480   |
| 11          | 4180   | 7550    | 14400  | 1340   | 12800  | 5830   | 1330   | 4590   | 18200  | 3000   | 4340   | 2160   |
| 12          | 1240   | 4890    | 15900  | 3080   | 10600  | 6190   | 9880   | 3580   | 7950   | 9560   | 8140   | 1080   |
| 13          | 5250   | 13200   | 6240   | 4550   | 12600  | 5970   | 14100  | 3460   | 4800   | 10700  | 7980   | 1660   |
| 14          | 7300   | 13400   | 1540   | 4630   | 6730   | 2680   | 8740   | 8260   | 1590   | 11100  | 3450   | 5480   |
| 15          | 7850   | 6100    | 6330   | 7450   | 1550   | 6100   | 6730   | 5240   | 3290   | 10900  | 1280   | 3230   |
| 16          | 10200  | 1390    | 12900  | 10400  | 6150   | 20500  | 6150   | 5400   | 3740   | 12400  | 4640   | 4550   |
| 17          | 7650   | 6150    | 13400  | 5790   | 4980   | 14100  | 3730   | 10600  | 4090   | 3980   | 6280   | 4530   |
| 18          | 6820   | 13500   | 16700  | 3310   | 4590   | 11100  | 1200   | 18200  | 3590   | 1320   | 4030   | 2600   |
| 19          | 3000   | 13400   | 15900  | 7600   | 5070   | 7500   | 1920   | 19900  | 2460   | 6990   | 3310   | 1100   |
| 20          | 5880   | 12900   | 7100   | 8050   | 5290   | 4840   | 8860   | 19900  | 1230   | 11500  | 3220   | 3530   |
| 21          | 11400  | 8350    | 1770   | 4500   | 4050   | 1840   | 11300  | 19800  | 5560   | 13900  | 2230   | 5300   |
| 22          | 11200  | 10700   | 6460   | 7750   | 1540   | 5970   | 10400  | 7260   | 8920   | 15100  | 2120   | 5130   |
| 23          | 12200  | 4750    | 9340   | 7800   | 7300   | 6730   | 11300  | 1110   | 11800  | 14000  | 9850   | 5230   |
| 24          | 11900  | 8000    | 5560   | 2940   | 7750   | 9820   | 5070   | 5680   | 9660   | 10700  | 12600  | 6190   |
| 25          | 5790   | 14600   | 2710   | 1020   | 5790   | 12900  | 1130   | 7830   | 14100  | 4780   | 10300  | 5470   |
| 26          | 1300   | 18000   | 4220   | 2540   | 6420   | 11700  | 3730   | 8930   | 12600  | 12900  | 9270   | 4560   |
| 27          | 6600   | 16900   | 4590   | 13700  | 7100   | 8150   | 4590   | 11400  | 5740   | 6350   | 7190   | 8560   |
| 28          | 10100  | 18000   | 1070   | 16900  | 3810   | 2030   | 5110   | 8170   | 9620   | 4380   | 3380   | 6720   |
| 29          | 12800  | 11200   | 4180   | 13400  | 1130   | 10000  | 5160   | 7710   | 10000  | 4810   | 1910   | 5550   |
| 30          | 17300  | 3030    | 7650   | 14600  | ---    | 16800  | 5250   | 9080   | 9510   | 4790   | 4140   | 6010   |
| 31          | 17100  | ---     | 9040   | 7000   | ---    | 19300  | ---    | 14300  | ---    | 2770   | 4880   | ---    |
| TOTAL       | 252100 | 277310  | 234250 | 208100 | 177790 | 249370 | 264070 | 237510 | 329250 | 255650 | 148180 | 128882 |
| MEAN        | 8132   | 9244    | 7556   | 6713   | 6131   | 8044   | 8802   | 7662   | 10980  | 8247   | 4780   | 4296   |
| MAX         | 17300  | 18000   | 16700  | 16900  | 12800  | 20500  | 19700  | 19900  | 20400  | 15100  | 12600  | 8560   |
| MIN         | 1190   | 1110    | 1070   | 1020   | 1130   | 1170   | 1130   | 1110   | 1230   | 1020   | 1280   | 982    |
| CAL YR 1975 | TOTAL  | 2701800 | MEAN   | 7402   | MAX    | 38400  | MIN    | 868    |        |        |        |        |
| WTR YR 1976 | TOTAL  | 2762462 | MEAN   | 7548   | MAX    | 20500  | MIN    | 982    |        |        |        |        |



## 02191200 HUDSON RIVER AT HOMER, GA.

LOCATION.--Lat 34°20'15", long 83°29'17", Banks County, 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 mi<sup>2</sup> (158 km<sup>2</sup>).

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.--17 years (1959-76), 112 ft<sup>3</sup>/s (3.17 m<sup>3</sup>/s), 24.89 in/yr (632.2 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,050 ft<sup>3</sup>/s (200 m<sup>3</sup>/s) May 29, 1976, gage height, 14.73 ft (4.490 m); minimum daily, 24 ft<sup>3</sup>/s (.68 m<sup>3</sup>/s) July 19, 20, 1970.

EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of 8.62 ft<sup>3</sup>/s (0.244 m<sup>3</sup>/s) was measured on Sept. 23, 1955.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft<sup>3</sup>/s (22.7 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Jan. 1  | 0300 | 1020 28.8                                             | 7.89 2.405              | Mar. 31 | 2400 | 2280 64.6                                             | 10.27 3.130             |
| Jan. 27 | 0445 | 1760 49.8                                             | 9.45 2.880              | May 15  | 2145 | 1720 48.7                                             | 9.38 2.859              |
| Mar. 13 | 1500 | 1370 38.8                                             | 8.74 2.664              | May 29  | 0845 | *7050 200                                             | 14.73 4.490             |
| Mar. 16 | 1915 | 2310 65.4                                             | 10.31 3.142             |         |      |                                                       |                         |

Minimum discharge, 39 ft<sup>3</sup>/s (1.10 m<sup>3</sup>/s) Sept. 25, gage height, 1.51 ft (0.460 m).

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

| DAY         | OCT   | NOV   | DEC      | JAN      | FEB    | MAR       | APR      | MAY   | JUN  | JUL  | AUG  | SEP  |
|-------------|-------|-------|----------|----------|--------|-----------|----------|-------|------|------|------|------|
| 1           | 92    | 72    | 134      | 488      | 204    | 91        | 1330     | 127   | 238  | 91   | 74   | 50   |
| 2           | 119   | 72    | 104      | 171      | 212    | 90        | 286      | 94    | 218  | 86   | 72   | 50   |
| 3           | 85    | 72    | 95       | 183      | 146    | 89        | 211      | 85    | 199  | 86   | 70   | 49   |
| 4           | 80    | 71    | 90       | 151      | 129    | 89        | 178      | 81    | 178  | 150  | 68   | 50   |
| 5           | 86    | 71    | 86       | 123      | 122    | 88        | 159      | 81    | 172  | 264  | 66   | 52   |
| 6           | 99    | 71    | 84       | 114      | 120    | 102       | 145      | 80    | 156  | 135  | 64   | 51   |
| 7           | 85    | 110   | 83       | 138      | 114    | 95        | 136      | 88    | 148  | 113  | 62   | 49   |
| 8           | 331   | 94    | 82       | 248      | 110    | 88        | 128      | 83    | 141  | 101  | 60   | 47   |
| 9           | 216   | 80    | 83       | 134      | 107    | 132       | 122      | 82    | 137  | 97   | 58   | 46   |
| 10          | 127   | 84    | 83       | 117      | 105    | 116       | 118      | 78    | 131  | 91   | 56   | 45   |
| 11          | 108   | 80    | 78       | 113      | 104    | 100       | 115      | 80    | 147  | 86   | 54   | 42   |
| 12          | 98    | 292   | 77       | 113      | 102    | 181       | 112      | 78    | 125  | 84   | 52   | 42   |
| 13          | 90    | 294   | 77       | 108      | 102    | 955       | 110      | 74    | 120  | 81   | 52   | 41   |
| 14          | 86    | 135   | 77       | 118      | 100    | 242       | 109      | 80    | 117  | 79   | 64   | 43   |
| 15          | 82    | 111   | 76       | 106      | 99     | 257       | 106      | 1080  | 115  | 78   | 53   | 59   |
| 16          | 79    | 101   | 89       | 104      | 98     | 1610      | 103      | 557   | 113  | 77   | 59   | 52   |
| 17          | 273   | 93    | 84       | 102      | 97     | 775       | 101      | 187   | 126  | 76   | 61   | 47   |
| 18          | 197   | 89    | 83       | 95       | 101    | 241       | 99       | 147   | 117  | 77   | 54   | 46   |
| 19          | 119   | 86    | 75       | 92       | 105    | 184       | 98       | 129   | 110  | 76   | 51   | 44   |
| 20          | 104   | 84    | 75       | 94       | 95     | 162       | 96       | 118   | 135  | 77   | 49   | 44   |
| 21          | 99    | 111   | 75       | 93       | 97     | 204       | 95       | 111   | 129  | 80   | 50   | 48   |
| 22          | 92    | 89    | 73       | 92       | 205    | 159       | 95       | 105   | 115  | 77   | 53   | 45   |
| 23          | 85    | 97    | 72       | 91       | 125    | 141       | 91       | 103   | 104  | 75   | 51   | 42   |
| 24          | 82    | 96    | 72       | 91       | 109    | 131       | 90       | 101   | 102  | 74   | 49   | 42   |
| 25          | 80    | 90    | 76       | 91       | 103    | 126       | 95       | 105   | 98   | 72   | 47   | 40   |
| 26          | 79    | 86    | 119      | 646      | 100    | 122       | 91       | 99    | 108  | 70   | 47   | 46   |
| 27          | 79    | 93    | 92       | 1100     | 97     | 125       | 88       | 98    | 103  | 78   | 52   | 62   |
| 28          | 78    | 87    | 85       | 266      | 94     | 118       | 86       | 593   | 95   | 86   | 89   | 50   |
| 29          | 77    | 83    | 80       | 182      | 93     | 114       | 84       | 4460  | 96   | 80   | 62   | 76   |
| 30          | 75    | 82    | 96       | 150      | ---    | 340       | 86       | 577   | 97   | 78   | 58   | 103  |
| 31          | 72    | ---   | 516      | 131      | ---    | 1160      | ---      | 299   | ---  | 76   | 53   | ---  |
| TOTAL       | 3454  | 3076  | 3071     | 5845     | 3395   | 8427      | 4763     | 10060 | 3990 | 2851 | 1810 | 1503 |
| MEAN        | 111   | 103   | 99.1     | 189      | 117    | 272       | 159      | 325   | 133  | 92.0 | 58.4 | 50.1 |
| MAX         | 331   | 294   | 516      | 1100     | 212    | 1610      | 1330     | 4460  | 238  | 264  | 89   | 103  |
| MIN         | 72    | 71    | 72       | 91       | 93     | 88        | 84       | 74    | 95   | 70   | 47   | 40   |
| CFSM        | 1.82  | 1.69  | 1.62     | 3.09     | 1.91   | 4.45      | 2.60     | 5.32  | 2.18 | 1.51 | .96  | .82  |
| IN.         | 2.10  | 1.87  | 1.87     | 3.56     | 2.07   | 5.13      | 2.90     | 6.12  | 2.43 | 1.74 | 1.10 | .92  |
| CAL YR 1975 | TOTAL | 47871 | MEAN 131 | MAX 1920 | MIN 47 | CFSM 2.14 | IN 29.15 |       |      |      |      |      |
| WTR YR 1976 | TOTAL | 52245 | MEAN 143 | MAX 4460 | MIN 40 | CFSM 2.34 | IN 31.81 |       |      |      |      |      |

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

LOCATION.--Lat 33°56'28", long 82°52'18", Oglethorpe County, 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 mi<sup>2</sup> (4.58 km<sup>2</sup>).

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, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 494 ft<sup>3</sup>/s (14.0 m<sup>3</sup>/s) Mar. 3, 1971, gage height, 7.05 ft (2.149 m); minimum daily, 0.54 ft<sup>3</sup>/s (0.015 m<sup>3</sup>/s) Sept. 5, 6, 1975.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft<sup>3</sup>/s (2.83 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Mar. 16 | 0800 | *372 10.5                                             | 6.75 2.057              | May 29 | 0415 | 303 8.58                                              | 5.97 1.820              |

Minimum discharge, 0.60 ft<sup>3</sup>/s (0.017 m<sup>3</sup>/s) Sept. 11, 12, gage height, 0.80 ft (0.244 m).

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

| DAY   | OCT   | NOV   | DEC  | JAN  | FEB  | MAR   | APR   | MAY    | JUN  | JUL   | AUG   | SEP   |
|-------|-------|-------|------|------|------|-------|-------|--------|------|-------|-------|-------|
| 1     | 1.5   | .97   | 1.7  | 2.8  | 3.4  | 1.7   | 3.0   | 1.4    | 3.2  | 1.1   | .76   | .84   |
| 2     | 1.7   | 1.1   | 1.4  | 2.2  | 3.1  | 1.6   | 2.8   | 1.0    | 3.0  | 1.0   | .76   | .81   |
| 3     | 1.0   | 1.0   | 1.4  | 1.9  | 2.8  | 1.6   | 2.5   | .94    | 3.2  | 1.4   | .76   | .84   |
| 4     | .96   | .98   | 1.3  | 1.5  | 2.6  | 1.5   | 2.1   | .92    | 2.8  | 2.5   | .76   | .84   |
| 5     | .92   | .98   | 1.3  | 1.4  | 2.4  | 1.5   | 2.0   | .97    | 2.3  | 4.5   | .75   | .84   |
| 6     | .88   | .97   | 1.2  | 1.3  | 2.3  | 1.4   | 1.9   | .88    | 2.0  | 6.3   | .94   | .81   |
| 7     | 1.0   | 1.9   | 1.2  | 1.3  | 2.2  | 1.4   | 1.9   | .93    | 1.9  | 4.0   | 1.9   | .81   |
| 8     | 2.5   | 1.3   | 1.2  | 2.1  | 2.1  | 1.5   | 1.7   | 1.1    | 1.9  | 2.5   | .86   | .78   |
| 9     | 1.3   | 1.1   | 1.2  | 1.8  | 2.0  | 2.7   | 1.7   | .97    | 1.9  | 2.0   | .85   | .79   |
| 10    | 1.1   | 1.3   | 1.4  | 1.5  | 2.0  | 1.9   | 1.6   | .92    | 1.5  | 1.8   | .84   | .74   |
| 11    | .96   | 1.2   | 1.3  | 1.3  | 1.9  | 1.7   | 1.5   | .91    | 1.4  | 1.6   | .81   | .68   |
| 12    | .92   | 2.3   | 1.3  | 1.7  | 1.8  | 3.0   | 1.5   | .91    | 1.3  | 1.6   | .81   | .68   |
| 13    | .88   | 2.1   | 1.2  | 1.5  | 1.8  | 9.0   | 1.4   | .89    | 1.2  | 1.8   | .81   | .73   |
| 14    | .88   | 1.6   | 1.2  | 1.6  | 1.7  | 4.5   | 1.4   | .88    | 1.2  | 1.7   | .79   | 2.2   |
| 15    | .88   | 1.5   | 1.2  | 1.4  | 1.7  | 7.9   | 1.3   | 4.5    | 1.2  | 1.6   | .76   | 2.2   |
| 16    | .85   | 1.5   | 1.2  | 1.4  | 1.7  | 101   | 1.3   | 3.0    | 1.2  | 1.6   | 1.0   | 1.3   |
| 17    | 12    | 1.4   | 1.5  | 1.4  | 1.6  | 11    | 1.2   | 1.5    | 1.3  | 1.3   | 2.0   | .97   |
| 18    | 5.3   | 1.4   | 2.2  | 1.5  | 1.7  | 6.6   | 1.1   | 1.2    | 1.2  | 1.0   | .88   | .88   |
| 19    | 2.8   | 1.4   | 1.6  | 1.6  | 1.6  | 4.9   | 1.1   | 1.1    | 1.1  | 1.0   | .79   | .85   |
| 20    | 2.1   | 1.4   | 1.5  | 1.7  | 1.6  | 4.1   | 1.1   | 1.0    | 1.8  | 1.0   | .82   | .87   |
| 21    | 1.8   | 1.4   | 1.5  | 1.7  | 1.7  | 4.2   | 1.1   | .97    | 1.3  | .97   | .83   | .87   |
| 22    | 1.6   | 1.2   | 1.4  | 1.6  | 4.2  | 3.4   | 1.0   | .93    | 1.1  | .92   | .81   | .86   |
| 23    | 1.5   | 1.4   | 1.3  | 1.6  | 2.5  | 3.2   | .99   | 1.0    | 1.7  | .92   | .80   | .84   |
| 24    | 1.3   | 1.4   | 1.3  | 1.6  | 2.2  | 3.1   | .96   | 1.8    | 1.7  | .89   | .77   | .83   |
| 25    | 1.3   | 1.4   | 1.8  | 1.5  | 2.1  | 2.9   | 1.0   | 1.5    | 1.6  | .85   | 1.9   | .82   |
| 26    | 1.2   | 1.2   | 2.8  | 2.5  | 2.0  | 2.8   | .97   | 1.2    | 1.4  | .86   | 1.1   | 1.2   |
| 27    | 1.2   | 1.3   | 2.2  | 9.9  | 1.9  | 2.6   | .96   | 1.3    | 1.1  | .87   | .95   | 1.1   |
| 28    | 1.2   | 1.2   | 2.3  | 6.0  | 1.8  | 2.2   | .94   | 5.2    | 1.1  | .89   | 1.4   | 1.2   |
| 29    | 1.1   | 1.2   | 2.1  | 4.2  | 1.7  | 2.2   | .95   | 54     | 1.4  | .85   | 1.0   | 1.7   |
| 30    | 1.1   | 1.2   | 1.8  | 3.3  | ---  | 2.9   | 1.1   | 7.3    | 1.2  | .82   | .90   | 1.5   |
| 31    | .98   | ---   | 1.7  | 2.8  | ---  | 3.1   | ---   | 4.3    | ---  | .77   | .85   | ---   |
| TOTAL | 54.71 | 40.30 | 47.7 | 69.6 | 62.1 | 203.1 | 44.07 | 105.42 | 50.2 | 50.91 | 29.96 | 30.38 |
| MEAN  | 1.76  | 1.34  | 1.54 | 2.25 | 2.14 | 6.55  | 1.47  | 3.40   | 1.67 | 1.64  | .97   | 1.01  |
| MAX   | 12    | 2.3   | 2.8  | 9.9  | 4.2  | 101   | 3.0   | 54     | 3.2  | 6.3   | 2.0   | 2.2   |
| MIN   | .85   | .97   | 1.2  | 1.3  | 1.6  | 1.4   | .94   | .88    | 1.1  | .77   | .75   | .68   |
| CFSM  | .99   | .76   | .87  | 1.27 | 1.21 | 3.70  | .83   | 1.92   | .94  | .93   | .55   | .57   |
| IN.   | 1.15  | .85   | 1.00 | 1.46 | 1.30 | 4.27  | .93   | 2.21   | 1.05 | 1.07  | .63   | .64   |

CAL YR 1975 TOTAL 1109.77 MEAN 3.04 MAX 36 MIN .54 CFSM 1.72 IN 23.31  
WTR YR 1976 TOTAL 788.45 MEAN 2.15 MAX 101 MIN .68 CFSM 1.21 IN 16.56

NOTE.--No gage-height record Dec. 28 to Jan. 19, Sept. 20-30.

## SAVANNAH RIVER BASIN

02192000 BROAD RIVER NEAR BELL, GA.

LOCATION.--Lat 33°58'27", long 82°46'12", Elbert County, 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 mi<sup>2</sup> (3.700 km<sup>2</sup>), 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 fair.

AVERAGE DISCHARGE.--45 years, 1,809 ft<sup>3</sup>/s (51.2 m<sup>3</sup>/s), 17.18 in/yr (436.4 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 79,400 ft<sup>3</sup>/s (2,250 m<sup>3</sup>/s) Oct. 2, 1929, gage height, 34.8 ft (10.61 m), from rating curve extended above 30,000 ft<sup>3</sup>/s (850 m<sup>3</sup>/s) on basis of slope-conveyance studies; minimum, 108 ft<sup>3</sup>/s (3.06 m<sup>3</sup>/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 ft<sup>3</sup>/s (396 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Mar. 17 | 1430 | *30800 872                                            | 25.36 7.730             | May 31 | 0430 | 29500 835                                             | 24.93 7.599             |

Minimum discharge, 493 ft<sup>3</sup>/s (14.0 m<sup>3</sup>/s) Sept. 13, 14, gage height, 3.44 ft (1.049 m).

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

| DAY         | OCT   | NOV    | DEC   | JAN   | FEB   | MAR    | APR   | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|--------|-------|-------|-------|--------|-------|--------|-------|-------|-------|-------|
| 1           | 1210  | 1100   | 1400  | 5560  | 2460  | 1510   | 9720  | 1500   | 13300 | 1560  | 832   | 650   |
| 2           | 1870  | 1080   | 1850  | 4800  | 3180  | 1490   | 12500 | 1830   | 4030  | 1330  | 803   | 614   |
| 3           | 1790  | 1060   | 1650  | 2890  | 3000  | 1460   | 7280  | 1620   | 3640  | 1210  | 765   | 594   |
| 4           | 1310  | 1040   | 1480  | 2980  | 2350  | 1440   | 3550  | 1510   | 3680  | 1220  | 737   | 591   |
| 5           | 1190  | 1020   | 1390  | 2480  | 2120  | 1420   | 2930  | 1490   | 2790  | 2920  | 725   | 611   |
| 6           | 1150  | 1050   | 1330  | 2020  | 2010  | 1420   | 2590  | 1450   | 2370  | 4740  | 719   | 637   |
| 7           | 1190  | 1180   | 1320  | 1910  | 1910  | 1530   | 2350  | 1410   | 2080  | 3600  | 862   | 631   |
| 8           | 2010  | 1800   | 1380  | 2750  | 1800  | 1510   | 2250  | 1390   | 1870  | 2260  | 979   | 601   |
| 9           | 4380  | 1780   | 1380  | 3100  | 1740  | 1650   | 2150  | 1360   | 1740  | 1740  | 880   | 574   |
| 10          | 3050  | 1840   | 1400  | 2200  | 1680  | 2290   | 2010  | 1340   | 1650  | 1600  | 824   | 556   |
| 11          | 1890  | 1860   | 1360  | 1940  | 1640  | 1980   | 1930  | 1320   | 1570  | 1490  | 784   | 536   |
| 12          | 1550  | 1640   | 1280  | 1910  | 1610  | 1730   | 1860  | 1310   | 1530  | 1330  | 742   | 512   |
| 13          | 1380  | 3910   | 1240  | 1870  | 1580  | 6660   | 1810  | 1300   | 1440  | 1250  | 719   | 499   |
| 14          | 1280  | 3590   | 1230  | 1800  | 1550  | 10200  | 1790  | 1400   | 1370  | 1190  | 704   | 529   |
| 15          | 1220  | 2240   | 1230  | 1800  | 1530  | 5930   | 1760  | 2130   | 1340  | 1140  | 721   | 866   |
| 16          | 1180  | 1830   | 1260  | 1690  | 1510  | 15300  | 1720  | 7990   | 1320  | 1110  | 967   | 1030  |
| 17          | 1810  | 1640   | 1450  | 1640  | 1500  | 28900  | 1680  | 6710   | 1350  | 1050  | 1100  | 872   |
| 18          | 7050  | 1520   | 1940  | 1610  | 1490  | 21800  | 1650  | 3210   | 1540  | 1020  | 1000  | 724   |
| 19          | 4720  | 1440   | 1670  | 1490  | 1660  | 8960   | 1620  | 2190   | 1610  | 1000  | 776   | 649   |
| 20          | 2260  | 1390   | 1390  | 1440  | 1680  | 4380   | 1600  | 1770   | 1710  | 985   | 689   | 614   |
| 21          | 1790  | 1390   | 1330  | 1450  | 1530  | 3880   | 1580  | 1610   | 2130  | 975   | 653   | 616   |
| 22          | 1580  | 1460   | 1300  | 1460  | 2330  | 3650   | 1570  | 1540   | 1670  | 970   | 660   | 657   |
| 23          | 1450  | 1410   | 1280  | 1430  | 3640  | 3020   | 1550  | 1500   | 1580  | 960   | 687   | 616   |
| 24          | 1360  | 1560   | 1260  | 1410  | 2320  | 2620   | 1530  | 1480   | 1710  | 950   | 665   | 574   |
| 25          | 1300  | 1530   | 1240  | 1410  | 1900  | 2380   | 1510  | 3090   | 1390  | 934   | 632   | 557   |
| 26          | 1270  | 1390   | 1600  | 1480  | 1750  | 2260   | 1500  | 2280   | 1300  | 893   | 698   | 558   |
| 27          | 1250  | 1340   | 2150  | 7380  | 1670  | 2190   | 1490  | 1820   | 1420  | 869   | 676   | 633   |
| 28          | 1240  | 1360   | 1710  | 12300 | 1610  | 2190   | 1480  | 2300   | 1470  | 940   | 726   | 769   |
| 29          | 1220  | 1340   | 1500  | 9220  | 1550  | 2070   | 1470  | 12000  | 1300  | 1050  | 967   | 786   |
| 30          | 1210  | 1290   | 1480  | 3690  | ---   | 2340   | 1460  | 24400  | 1460  | 927   | 830   | 1050  |
| 31          | 1180  | ---    | 2280  | 2810  | ---   | 5020   | ---   | 27200  | ---   | 867   | 716   | ---   |
| TOTAL       | 58340 | 48080  | 45760 | 91920 | 56300 | 153180 | 79890 | 123450 | 67360 | 44080 | 24238 | 19706 |
| MEAN        | 1882  | 1603   | 1476  | 2965  | 1941  | 4941   | 2663  | 3982   | 2245  | 1422  | 782   | 657   |
| MAX         | 7050  | 3910   | 2280  | 12300 | 3640  | 28900  | 12500 | 27200  | 13300 | 4740  | 1100  | 1050  |
| MIN         | 1150  | 1020   | 1230  | 1410  | 1490  | 1420   | 1460  | 1300   | 1300  | 867   | 632   | 499   |
| CF5M        | 1.32  | 1.12   | 1.03  | 2.07  | 1.36  | 3.46   | 1.86  | 2.78   | 1.57  | .99   | .55   | .46   |
| IN.         | 1.52  | 1.25   | 1.19  | 2.39  | 1.46  | 3.98   | 2.08  | 3.21   | 1.75  | 1.15  | .63   | .51   |
| CAL YR 1975 | TOTAL | 935094 | MEAN  | 2562  | MAX   | 35500  | MIN   | 840    | CF5M  | 1.79  | IN    | 24.33 |
| WTR YR 1976 | TOTAL | 812304 | MEAN  | 2219  | MAX   | 28900  | MIN   | 499    | CF5M  | 1.55  | IN    | 21.13 |

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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|--------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| NOV<br>04... | 1615 | 1120                                          | 7.2           | 15.0                        | 4.6                                |
| JAN<br>20... | 1220 | 1430                                          | 7.0           | 2.0                         | 13.6                               |
| MAR<br>10... | 1515 | 2400                                          | 7.0           | 9.0                         | 10.8                               |
| JUN<br>10... | 1115 | 1640                                          | 7.2           | 21.5                        | 7.9                                |
| SEP<br>16... | 0745 | 1100                                          | 7.1           | 18.0                        | 8.6                                |

| DATE          | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) |
|---------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| NOV.<br>04... | 19                                       | .20                                                  | <.02                                               | .03                                       | 14                                 |
| JAN.<br>20... | 15                                       | .35                                                  | <.02                                               | .02                                       | 13                                 |
| MAR.<br>10... | 16                                       | .28                                                  | <.02                                               | .09                                       | 14                                 |
| JUNE<br>10... | 15                                       | .27                                                  | <.02                                               | .04                                       | 14                                 |
| SEP.<br>16... | 17                                       | .24                                                  | <.02                                               | .06                                       | 14                                 |

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| NOV.<br>04... | 46                                                         | 20                                           | 12                           | .3                                                           | <30                                              | 2.0                                         |
| JAN.<br>20... | 46                                                         | 25                                           | 17                           | .3                                                           | 230                                              | 2.0                                         |
| MAR.<br>10... | 48                                                         | 25                                           | 28                           | .8                                                           | 930                                              | 4.0                                         |
| JUNE<br>10... | 43                                                         | 50                                           | 34                           | .7                                                           | 430                                              | 4.0                                         |
| SEP.<br>16... | 48                                                         | 25                                           | 24                           | .5                                                           | 930                                              | 3.0                                         |



## SAVANNAH RIVER BASIN

02196820 BUTLER CREEK AT FORT GORDON, GA.

LOCATION.--Lat 33°26'33", long 82°07'43", Richmond County, 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 mi<sup>2</sup> (19.4 km<sup>2</sup>).

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 for periods of no gage-height record, which are poor.

AVERAGE DISCHARGE.--8 years, 7.66 ft<sup>3</sup>/s (0.217 m<sup>3</sup>/s), 13.87 in/yr (352.3 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 ft<sup>3</sup>/s (0.003 m<sup>3</sup>/s) June 29, July 21, 1969

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 348 ft<sup>3</sup>/s (9.86 m<sup>3</sup>/s) July 7, gage height, 5.24 ft (1.597 m), from peak-stage indicator; minimum daily, 0.50 ft<sup>3</sup>/s (0.014 m<sup>3</sup>/s) Sept. 12

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

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN    | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|
| 1     | 4.3   | 3.5   | 9.3   | 18    | 12    | 4.7   | 7.8   | 12    | 2.8    | 3.1   | 1.6   | 1.0   |
| 2     | 7.0   | 3.7   | 6.6   | 12    | 14    | 7.9   | 6.2   | 5.2   | 2.5    | 2.4   | 1.2   | .73   |
| 3     | 4.2   | 3.7   | 5.5   | 11    | 8.9   | 6.9   | 5.7   | 3.5   | 8.8    | 5.0   | 1.2   | .52   |
| 4     | 3.5   | 3.8   | 5.3   | 9.3   | 8.3   | 4.8   | 5.6   | 2.8   | 9.1    | 8.0   | 1.3   | 1.4   |
| 5     | 3.5   | 4.1   | 5.3   | 8.2   | 8.1   | 5.2   | 5.4   | 2.8   | 6.0    | 10    | 1.2   | .80   |
| 6     | 3.4   | 4.0   | 5.2   | 8.2   | 8.7   | 5.8   | 5.5   | 2.6   | 4.4    | 30    | 1.1   | 1.2   |
| 7     | 3.4   | 5.2   | 5.4   | 15    | 7.5   | 4.8   | 5.5   | 3.0   | 3.4    | 100   | 1.0   | 2.5   |
| 8     | 5.5   | 12    | 7.7   | 28    | 7.3   | 4.9   | 5.0   | 5.2   | 1.8    | 40    | .90   | 1.0   |
| 9     | 9.0   | 7.4   | 13    | 12    | 7.2   | 11    | 4.9   | 5.4   | 1.3    | 15    | .89   | .70   |
| 10    | 4.4   | 6.5   | 9.3   | 9.9   | 7.0   | 6.3   | 4.7   | 3.3   | 1.3    | 9.0   | .89   | .65   |
| 11    | 3.7   | 6.7   | 6.4   | 9.4   | 7.1   | 5.9   | 5.5   | 3.0   | 1.2    | 6.0   | .86   | .55   |
| 12    | 3.5   | 12    | 5.9   | 9.4   | 6.8   | 7.4   | 4.2   | 3.0   | 1.1    | 5.0   | .84   | .50   |
| 13    | 3.3   | 18    | 5.6   | 8.7   | 6.8   | 20    | 4.1   | 2.5   | 1.0    | 4.3   | .83   | .60   |
| 14    | 3.5   | 7.5   | 5.7   | 8.4   | 6.7   | 8.3   | 4.2   | 2.3   | .90    | 3.7   | .83   | 2.5   |
| 15    | 3.5   | 6.4   | 5.7   | 7.8   | 6.6   | 14    | 4.1   | 1.6   | 1.5    | 3.2   | .85   | 10    |
| 16    | 3.4   | 6.1   | 9.4   | 7.8   | 6.7   | 86    | 3.7   | 7.1   | 4.0    | 2.9   | .76   | 4.5   |
| 17    | 16    | 5.9   | 22    | 12    | 6.5   | 21    | 3.6   | 4.7   | 7.0    | 2.6   | 1.0   | 2.5   |
| 18    | 12    | 5.6   | 16    | 9.0   | 6.7   | 13    | 3.4   | 3.4   | 5.0    | 2.4   | 1.1   | 1.5   |
| 19    | 5.2   | 5.6   | 8.4   | 7.8   | 7.6   | 11    | 3.3   | 2.8   | 4.0    | 2.3   | .87   | 1.1   |
| 20    | 4.3   | 5.6   | 7.4   | 7.9   | 6.3   | 9.7   | 3.2   | 2.5   | 10     | 2.2   | .81   | 1.0   |
| 21    | 4.0   | 5.5   | 7.0   | 7.9   | 6.2   | 13    | 3.2   | 2.2   | 5.0    | 1.9   | 2.2   | 1.3   |
| 22    | 3.7   | 5.2   | 6.7   | 7.3   | 7.1   | 9.9   | 4.3   | 2.1   | 3.0    | 1.6   | 2.3   | 1.7   |
| 23    | 3.6   | 5.4   | 6.4   | 7.1   | 6.2   | 8.5   | 3.2   | 5.2   | 2.0    | 1.4   | 1.6   | 1.1   |
| 24    | 3.6   | 5.6   | 6.2   | 7.1   | 8.7   | 7.9   | 2.9   | 15    | 4.5    | 1.5   | 1.3   | .95   |
| 25    | 3.7   | 5.4   | 6.4   | 7.1   | 8.9   | 7.7   | 4.2   | 17    | 5.0    | 1.4   | 2.3   | 1.0   |
| 26    | 3.8   | 5.2   | 17    | 11    | 5.7   | 7.5   | 4.5   | 6.4   | 2.5    | 1.2   | 6.3   | 1.7   |
| 27    | 3.8   | 5.4   | 8.2   | 29    | 4.9   | 7.9   | 3.1   | 4.6   | 2.6    | 1.1   | 2.2   | 4.0   |
| 28    | 4.0   | 5.3   | 6.8   | 15    | 4.6   | 7.5   | 2.8   | 11    | 1.8    | 1.2   | 1.1   | 3.0   |
| 29    | 3.8   | 5.1   | 6.5   | 10    | 4.8   | 7.0   | 2.7   | 9.4   | 2.1    | 1.2   | .81   | 2.7   |
| 30    | 3.8   | 5.1   | 19    | 9.2   | ---   | 7.1   | 12    | 4.8   | 2.7    | 1.3   | 2.4   | 2.6   |
| 31    | 3.4   | ---   | 42    | 8.5   | ---   | 7.5   | ---   | 3.4   | ---    | 2.8   | 3.1   | ---   |
| TOTAL | 147.8 | 233.3 | 297.3 | 339.0 | 213.9 | 350.1 | 138.5 | 174.2 | 108.30 | 273.7 | 45.64 | 55.30 |
| MEAN  | 4.77  | 7.78  | 9.59  | 10.9  | 7.38  | 11.3  | 4.62  | 5.62  | 3.61   | 8.83  | 1.47  | 1.84  |
| MAX   | 16    | 52    | 42    | 29    | 14    | 86    | 12    | 17    | 10     | 100   | 6.3   | 10    |
| MIN   | 3.3   | 3.5   | 5.2   | 7.1   | 4.6   | 4.7   | 2.7   | 2.1   | .90    | 1.1   | .76   | .50   |
| CFSM  | .64   | 1.04  | 1.28  | 1.45  | .98   | 1.51  | .62   | .75   | .48    | 1.18  | .20   | .25   |
| IN.   | .73   | 1.16  | 1.47  | 1.68  | 1.06  | 1.74  | .69   | .86   | .54    | 1.36  | .23   | .27   |

CAL YR 1975 TOTAL 3453.40 MEAN 9.46 MAX 148 MIN 1.3 CFSM 1.26 IN 17.13  
WTR YR 1976 TOTAL 2377.04 MEAN 6.49 MAX 100 MIN .50 CFSM .87 IN 11.79

NOTE.--No gage-height record June 8 to July 20,  
Sept. 3-30.

## 02197000 SAVANNAH RIVER AT AUGUSTA, GA.

LOCATION.--Lat 33°22'25", long 81°56'35", Richmond County, 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 mi<sup>2</sup> (19,446 km<sup>2</sup>), including that of Butler Creek.  
 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).  
 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 and Clark Hill Lakes (see 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.--69 years, 10,200 ft<sup>3</sup>/s (289 m<sup>3</sup>/s), 18.45 in/yr (468.6 mm/yr).  
 EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 350,000 ft<sup>3</sup>/s (9,910 m<sup>3</sup>/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 ft<sup>3</sup>/s (18.4 m<sup>3</sup>/s) Sept. 24, 1939, from rating curve extended below 1,400 ft<sup>3</sup>/s (39.6 m<sup>3</sup>/s); minimum daily, 1,040 ft<sup>3</sup>/s (29.5 m<sup>3</sup>/s) Oct. 2, 1927.  
 EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood known occurred in 1796, discharge, 360,000 ft<sup>3</sup>/s (10,200 m<sup>3</sup>/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, 33,300 ft<sup>3</sup>/s (943 m<sup>3</sup>/s) June 5, gage height, 20.27 ft (6.178 m); minimum daily, 6,750 ft<sup>3</sup>/s (191 m<sup>3</sup>/s) Sept. 13.

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

| DAY         | OCT    | NOV     | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1           | 8220   | 12700   | 11800  | 18100  | 12300  | 7590   | 22900  | 8180   | 20000  | 12100  | 7630   | 7080   |
| 2           | 8710   | 10900   | 17900  | 16200  | 11800  | 7160   | 22900  | 7980   | 26800  | 11600  | 7010   | 7350   |
| 3           | 9780   | 11700   | 19700  | 10600  | 16000  | 7630   | 21900  | 7300   | 30500  | 10300  | 6930   | 7470   |
| 4           | 9250   | 16600   | 17900  | 10100  | 16100  | 7700   | 20000  | 7310   | 31500  | 8450   | 7360   | 7550   |
| 5           | 7660   | 16300   | 14100  | 9900   | 15500  | 7430   | 17400  | 7540   | 31900  | 8960   | 7780   | 7540   |
| 6           | 6810   | 14900   | 11600  | 12100  | 15600  | 7800   | 21100  | 7620   | 31100  | 15300  | 7790   | 7180   |
| 7           | 7820   | 13300   | 9720   | 12000  | 15700  | 7730   | 22300  | 7530   | 31300  | 21100  | 7660   | 7020   |
| 8           | 9340   | 12000   | 10300  | 14000  | 12200  | 7220   | 21500  | 7680   | 31200  | 24200  | 7490   | 7170   |
| 9           | 9450   | 9840    | 14300  | 19800  | 11800  | 7260   | 15500  | 7760   | 29900  | 19800  | 6820   | 7500   |
| 10          | 9220   | 8210    | 15400  | 15700  | 14900  | 7540   | 13200  | 6840   | 27000  | 16500  | 6900   | 7520   |
| 11          | 9120   | 8690    | 15400  | 13100  | 13000  | 8010   | 11000  | 6980   | 22100  | 13300  | 7430   | 7480   |
| 12          | 8250   | 8880    | 14700  | 12400  | 10700  | 7720   | 10300  | 7350   | 16100  | 11900  | 7650   | 7450   |
| 13          | 8000   | 13100   | 12100  | 13300  | 10400  | 8070   | 12700  | 7560   | 11700  | 15800  | 7630   | 6750   |
| 14          | 8850   | 16600   | 10300  | 13600  | 9460   | 12200  | 12700  | 7840   | 9080   | 16300  | 7850   | 6840   |
| 15          | 9270   | 14000   | 10400  | 13200  | 7520   | 11000  | 12100  | 7640   | 8180   | 16600  | 7640   | 8610   |
| 16          | 9810   | 10700   | 13800  | 13100  | 8700   | 18400  | 10900  | 7710   | 8740   | 16500  | 6930   | 8760   |
| 17          | 10100  | 10500   | 15100  | 11000  | 8090   | 24500  | 8920   | 8220   | 8700   | 15500  | 7010   | 8200   |
| 18          | 11400  | 14400   | 16400  | 10000  | 7710   | 27500  | 7540   | 23600  | 8510   | 12500  | 7080   | 7920   |
| 19          | 10200  | 15500   | 16600  | 10700  | 7350   | 29000  | 7620   | 28600  | 8500   | 11400  | 7330   | 7750   |
| 20          | 10300  | 15000   | 15100  | 10900  | 7570   | 29500  | 8020   | 25600  | 9280   | 15700  | 7500   | 7080   |
| 21          | 17000  | 13300   | 12100  | 8520   | 8280   | 29500  | 10700  | 19000  | 9740   | 16300  | 7660   | 7170   |
| 22          | 16300  | 12200   | 10100  | 8210   | 7470   | 28500  | 8330   | 14400  | 12300  | 16400  | 7380   | 7500   |
| 23          | 16100  | 10900   | 11700  | 8190   | 7300   | 27500  | 7560   | 10300  | 11300  | 13400  | 6940   | 7620   |
| 24          | 15600  | 11600   | 11400  | 9060   | 7780   | 26500  | 7350   | 9620   | 11700  | 11100  | 7080   | 7800   |
| 25          | 12000  | 16800   | 10900  | 8140   | 8160   | 25500  | 7140   | 12000  | 11100  | 7530   | 7640   | 8130   |
| 26          | 9800   | 17400   | 9120   | 7860   | 7590   | 24400  | 7150   | 11100  | 9880   | 8790   | 7810   | 8000   |
| 27          | 10100  | 17300   | 9060   | 8310   | 7340   | 22400  | 7180   | 11400  | 8950   | 8800   | 7640   | 7350   |
| 28          | 15800  | 16700   | 8320   | 13100  | 7980   | 20900  | 7200   | 11200  | 9090   | 8690   | 7790   | 8480   |
| 29          | 18000  | 13300   | 8380   | 17600  | 7850   | 18000  | 7370   | 11500  | 10600  | 8530   | 7410   | 8090   |
| 30          | 17000  | 11200   | 8500   | 16300  | ---    | 22600  | 7540   | 13200  | 11600  | 7990   | 7060   | 8060   |
| 31          | 14800  | ---     | 11000  | 14900  | ---    | 22600  | ---    | 14300  | ---    | 7870   | 6940   | ---    |
| TOTAL       | 344060 | 394520  | 393200 | 379990 | 302150 | 519360 | 378020 | 344860 | 508350 | 409210 | 228770 | 228420 |
| MEAN        | 11100  | 13150   | 12680  | 12260  | 10420  | 16750  | 12600  | 11120  | 16950  | 13200  | 7380   | 7614   |
| MAX         | 18000  | 17400   | 19700  | 19800  | 16100  | 29500  | 22900  | 28600  | 31900  | 24200  | 7850   | 8760   |
| MIN         | 6810   | 8210    | 8320   | 7860   | 7300   | 7160   | 7140   | 6840   | 8180   | 7530   | 6820   | 6750   |
| (+)         | -877   | -1118   | -1605  | +1218  | -122   | +2368  | -129   | +3750  | -1914  | -1103  | -1501  | -1765  |
| CAL YR 1975 | TOTAL  | 4777150 | MEAN   | 13090  | MAX    | 43900  | MIN    | 5520   |        |        |        |        |
| WTR YR 1976 | TOTAL  | 4430910 | MEAN   | 12110  | MAX    | 31900  | MIN    | 6750   |        |        |        |        |

+ Change in contents, equivalent in cubic feet per second, in Clark Hill Lake.

## SAVANNAH RIVER BASIN

02197320 SAVANNAH RIVER NEAR JACKSON, S.C.

LOCATION.--Lat 33°13'01", long 81°46'04", Aiken County, 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 ft<sup>3</sup>/s (566 m<sup>3</sup>/s), only.

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

REMARKS.--Records good.

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

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 18.84 ft (5.742 m) July 6; minimum daily discharge, 6,770 ft<sup>3</sup>/s (192 m<sup>3</sup>/s) Sept. 1.

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

| DAY   | OCT    | NOV    | DEC    | JAN    | FEB    | MAR   | APR   | MAY   | JUN   | JUL   | AUG    | SEP    |
|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|
| 1     | 8600   | 16600  | 12500  | 14400  | 16900  | 8130  | ---   | 8320  | 16500 | 13000 | 7970   | 6770   |
| 2     | 8890   | 14400  | 15300  | 17300  | 14500  | 7800  | ---   | 8780  | 18300 | 13200 | 7930   | 7040   |
| 3     | 10000  | 12000  | 17600  | 16000  | 15400  | 7590  | ---   | 8230  | ---   | 12400 | 7560   | 7320   |
| 4     | 10500  | 15000  | 18500  | 12700  | 17000  | 7920  | ---   | 7560  | ---   | 9800  | 7230   | 7470   |
| 5     | 9090   | 16900  | 18100  | 10600  | 17500  | 7870  | ---   | 7440  | ---   | 8710  | 7690   | 7480   |
| 6     | 7710   | 17100  | 16300  | 11900  | 17400  | 7730  | ---   | 7580  | ---   | 12000 | 7860   | 7360   |
| 7     | 7090   | 16400  | 12700  | 12800  | 17600  | 7980  | ---   | 7600  | ---   | 16300 | 7680   | 7000   |
| 8     | 8880   | 15200  | 10400  | 13900  | 17000  | 7760  | ---   | 7570  | ---   | 18400 | 7330   | 7010   |
| 9     | 10200  | 13000  | 13000  | 16700  | 14000  | 7470  | ---   | 7770  | ---   | ---   | 6960   | 7230   |
| 10    | 10200  | 9980   | 15400  | 18200  | 14800  | 7620  | 18500 | 7670  | ---   | 19500 | 6840   | 7510   |
| 11    | 10200  | 8960   | 16300  | 17400  | 14900  | 8030  | 16200 | 6940  | ---   | 18200 | 7030   | 7400   |
| 12    | 9240   | 9560   | 16400  | 15200  | 14100  | 8200  | 12700 | 6850  | ---   | 15500 | 7510   | 7400   |
| 13    | 8540   | 11700  | 15600  | 14800  | 11800  | 8200  | 13500 | 7010  | 19000 | 15400 | 7470   | 7000   |
| 14    | 9060   | 15800  | 12600  | 14900  | 11300  | 10600 | 14200 | 7510  | 15100 | 16600 | 7540   | 6800   |
| 15    | 9450   | 16900  | 10500  | 14800  | 8920   | 12800 | 14100 | 7780  | 11700 | 17200 | 7580   | 8020   |
| 16    | 10500  | 15200  | 13000  | 14800  | 8300   | 14600 | 13000 | 7780  | 9510  | 17500 | 7030   | 10100  |
| 17    | 10800  | 11600  | 15100  | 13900  | 9060   | 18400 | 11000 | 7820  | 9810  | 17500 | 6870   | 9250   |
| 18    | 11600  | 13500  | 16400  | 11600  | 8260   | ---   | 8820  | 12900 | 9260  | 16600 | 6930   | 8520   |
| 19    | 11900  | 15600  | 17300  | 10700  | 8120   | ---   | 7860  | 17900 | 9310  | 14000 | 7040   | 8040   |
| 20    | 10500  | 16400  | 17600  | 12000  | 7980   | ---   | 7900  | ---   | 9520  | 14800 | 7250   | 7480   |
| 21    | 14000  | 16100  | 16200  | 10300  | 8360   | ---   | 10000 | ---   | 10100 | 16300 | 7430   | 7040   |
| 22    | 16700  | 15000  | 12700  | 8480   | 8270   | ---   | 9790  | ---   | 11700 | 16900 | 7470   | 7280   |
| 23    | 17200  | 13100  | 12100  | 8310   | 8010   | ---   | 8200  | 17100 | 12800 | 17000 | 7170   | 7560   |
| 24    | 17300  | 11400  | 12200  | 8950   | 7780   | ---   | 7490  | 13400 | 12400 | 15100 | 7050   | 7740   |
| 25    | 16600  | 14700  | 12000  | 8830   | 8360   | ---   | 7210  | 13200 | 12400 | 10800 | 7420   | 7960   |
| 26    | 13500  | 16900  | 10400  | 8330   | 8200   | ---   | 7140  | 13400 | 11500 | 8230  | 7980   | 8220   |
| 27    | 10200  | 17600  | 9600   | 8660   | 7870   | ---   | 7250  | 12600 | 9930  | 9180  | 8060   | 7810   |
| 28    | 13700  | 17900  | 8950   | 11400  | 7720   | ---   | 7260  | 12800 | 10100 | 8680  | 7910   | 7860   |
| 29    | 16600  | 17500  | 8450   | 16500  | 8240   | ---   | 7230  | 14800 | 11200 | 8770  | 7540   | 8770   |
| 30    | 17800  | 15200  | 8460   | 17800  | ---    | 19800 | 7680  | 15100 | 12300 | 8340  | 7200   | 8340   |
| 31    | 17700  | ---    | 9600   | 17800  | ---    | ---   | ---   | 14900 | ---   | 7980  | 6800   | ---    |
| TOTAL | 364250 | 437200 | 421260 | 409960 | 337650 |       |       |       |       |       | 229330 | 230780 |
| MEAN  | 11750  | 14570  | 13590  | 13220  | 11640  |       |       |       |       |       | 7398   | 7693   |
| MAX   | 17800  | 17900  | 18500  | 18200  | 17600  |       |       |       |       |       | 8060   | 10100  |
| MIN   | 7090   | 8960   | 8450   | 8310   | 7720   |       |       |       |       |       | 6800   | 6770   |

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 10, 31, Aug. 27, 28, 1974, Aug. 19, 20, 1975; minimum, 5.0°C Feb. 11, 1973.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 25.5°C July 27, Aug. 1, 2, 12-15, 17; minimum, 6.5°C Jan. 11, 19, 20.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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



## SAVANNAH RIVER BASIN

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

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

## SAVANNAH RIVER BASIN

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

LOCATION.--Lat 32°56'20", long 81°30'10", Screven County, 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 mi<sup>2</sup> (22,400 km<sup>2</sup>), 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 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, 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 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| DEC.  |      |                                               |               |                             |                                    |
| 02... | 0830 | 16000                                         | 6.1           | 12.0                        | 7.8                                |
| JAN.  |      |                                               |               |                             |                                    |
| 05... | 1545 | 14400                                         | 6.0           | 9.0                         | 9.8                                |
| FEB.  |      |                                               |               |                             |                                    |
| 03... | 0915 | 17700                                         | 6.1           | 7.0                         | 8.2                                |
| MAR.  |      |                                               |               |                             |                                    |
| 08... | 1445 | 8500                                          | 6.1           | 15.0                        | 9.4                                |
| APR.  |      |                                               |               |                             |                                    |
| 05... | 1445 | 24800                                         | 6.2           | 16.0                        | 8.6                                |
| MAY   |      |                                               |               |                             |                                    |
| 04... | 1000 | 8830                                          | 6.3           | 16.0                        | 8.1                                |
| JUNE  |      |                                               |               |                             |                                    |
| 07... | 1445 | 28300                                         | 6.0           | 19.0                        | 8.0                                |
| JULY  |      |                                               |               |                             |                                    |
| 06... | 1315 | 11200                                         | 6.0           | 23.0                        | 7.9                                |
| AUG.  |      |                                               |               |                             |                                    |
| 03... | 0645 | 8830                                          | 6.3           | 24.5                        | 7.6                                |
| SEP.  |      |                                               |               |                             |                                    |
| 13... | 1430 | 8280                                          | 6.3           | 22.0                        | 4.9                                |

| DATE  | ALKA-<br>LINITY<br>AS<br>CaCO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) |
|-------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| DEC.  |                                          |                                                      |                                                    |                                           |                                    |
| 02... | --                                       | .13                                                  | .02                                                | .05                                       | 16                                 |
| JAN.  |                                          |                                                      |                                                    |                                           |                                    |
| 05... | 13                                       | .23                                                  | --                                                 | .09                                       | 14                                 |
| FEB.  |                                          |                                                      |                                                    |                                           |                                    |
| 03... | 12                                       | .18                                                  | .04                                                | .02                                       | 13                                 |
| MAR.  |                                          |                                                      |                                                    |                                           |                                    |
| 08... | 17                                       | .34                                                  | .08                                                | .11                                       | 14                                 |
| APR.  |                                          |                                                      |                                                    |                                           |                                    |
| 05... | 14                                       | .19                                                  | <.02                                               | .04                                       | 12                                 |
| MAY   |                                          |                                                      |                                                    |                                           |                                    |
| 04... | 15                                       | .43                                                  | .16                                                | .09                                       | 13                                 |
| JUNE  |                                          |                                                      |                                                    |                                           |                                    |
| 07... | 14                                       | .13                                                  | <.02                                               | .05                                       | 13                                 |
| JULY  |                                          |                                                      |                                                    |                                           |                                    |
| 06... | 20                                       | .36                                                  | .14                                                | .07                                       | 16                                 |
| AUG.  |                                          |                                                      |                                                    |                                           |                                    |
| 03... | 15                                       | .50                                                  | .11                                                | .09                                       | 14                                 |
| SEP.  |                                          |                                                      |                                                    |                                           |                                    |
| 13... | 15                                       | .26                                                  | .04                                                | .07                                       | 14                                 |

## SAVANNAH RIVER BASIN

02197500 SAVANNAH RIVER AT BURTONS FERRY BRIDGE, NEAR MILLHAVEN--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>CORALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|-------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| DEC.  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 02... | --                                                         | 5                                            | 8                            | --                                                           | 110                                              | 4.0                                         |
| JAN.  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 05... | 56                                                         | 50                                           | 25                           | .6                                                           | 210                                              | --                                          |
| FEB.  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 03... | 54                                                         | 40                                           | 10                           | 1.0                                                          | 150                                              | 5.0                                         |
| MAR.  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 08... | 68                                                         | 15                                           | 9                            | .5                                                           | 930                                              | 5.0                                         |
| APR.  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 05... | 52                                                         | 30                                           | 11                           | .9                                                           | 430                                              | 4.0                                         |
| MAY   |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 04... | 66                                                         | 55                                           | 20                           | 1.1                                                          | 430                                              | 4.0                                         |
| JUNE  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 07... | 49                                                         | 60                                           | 18                           | 1.0                                                          | 150                                              | 7.0                                         |
| JULY  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 06... | 57                                                         | 40                                           | 27                           | --                                                           | --                                               | 6.0                                         |
| AUG.  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 03... | 67                                                         | 20                                           | 16                           | .5                                                           | 930                                              | 4.0                                         |
| SEP.  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 13... | 65                                                         | 30                                           | 5                            | .5                                                           | 410                                              | 5.0                                         |

## SAVANNAH RIVER BASIN

47

02197520 BRIER CREEK NEAR THOMSON, GA.

LOCATION.--Lat 33°22'06", long 82°28'06", McDuffie County, 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 mi<sup>2</sup> (142 km<sup>2</sup>), 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.

AVERAGE DISCHARGE.--9 years, 48.6 ft<sup>3</sup>/s (1.38 m<sup>3</sup>/s), 12.00 in/yr (304.8 mm/yr).

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

EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of 0.007 ft<sup>3</sup>/s (0.0002 m<sup>3</sup>/s) was measured on Oct. 14, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,000 ft<sup>3</sup>/s (28.3 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|
| Mar. 16 | 2100 | *1480 41.9                                            | 11.69 3.563             |

Minimum discharge, 1.4 ft<sup>3</sup>/s (0.040 m<sup>3</sup>/s) Sept. 12, 13, 14, gage height, 4.15 ft (1.265 m).

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

| DAY         | OCT   | NOV     | DEC       | JAN      | FEB     | MAR       | APR      | MAY    | JUN   | JUL    | AUG  | SEP   |
|-------------|-------|---------|-----------|----------|---------|-----------|----------|--------|-------|--------|------|-------|
| 1           | 30    | 14      | 38        | 208      | 89      | 35        | 56       | 46     | 36    | 22     | 2.9  | 2.0   |
| 2           | 28    | 14      | 38        | 117      | 158     | 34        | 42       | 24     | 30    | 17     | 2.5  | 2.3   |
| 3           | 27    | 14      | 29        | 94       | 93      | 33        | 37       | 14     | 32    | 14     | 2.3  | 2.1   |
| 4           | 21    | 14      | 25        | 80       | 77      | 32        | 33       | 9.8    | 28    | 51     | 2.2  | 5.0   |
| 5           | 19    | 14      | 24        | 65       | 71      | 31        | 32       | 8.3    | 25    | 69     | 2.0  | 4.0   |
| 6           | 18    | 14      | 24        | 59       | 68      | 33        | 29       | 7.5    | 19    | 258    | 1.9  | 2.6   |
| 7           | 17    | 49      | 24        | 92       | 63      | 32        | 29       | 8.2    | 16    | 656    | 1.8  | 8.0   |
| 8           | 24    | 40      | 28        | 335      | 58      | 30        | 26       | 15     | 15    | 161    | 1.9  | 3.5   |
| 9           | 71    | 25      | 42        | 138      | 56      | 80        | 23       | 17     | 14    | 77     | 1.9  | 2.7   |
| 10          | 32    | 21      | 53        | 96       | 52      | 62        | 21       | 12     | 13    | 50     | 1.8  | 2.2   |
| 11          | 23    | 20      | 34        | 86       | 52      | 42        | 21       | 9.3    | 12    | 37     | 1.9  | 1.8   |
| 12          | 20    | 76      | 29        | 83       | 50      | 41        | 20       | 14     | 11    | 28     | 2.3  | 1.7   |
| 13          | 18    | 308     | 27        | 72       | 48      | 162       | 18       | 9.8    | 10    | 22     | 14   | 1.6   |
| 14          | 18    | 79      | 26        | 69       | 49      | 86        | 19       | 7.7    | 9.5   | 17     | 5.6  | 9.1   |
| 15          | 17    | 52      | 26        | 61       | 45      | 98        | 17       | 92     | 9.8   | 14     | 4.2  | 23    |
| 16          | 16    | 44      | 39        | 58       | 46      | 724       | 16       | 124    | 30    | 13     | 2.8  | 13    |
| 17          | 65    | 39      | 102       | 62       | 44      | 446       | 14       | 46     | 70    | 12     | 2.4  | 8.2   |
| 18          | 95    | 35      | 153       | 58       | 47      | 142       | 14       | 29     | 36    | 12     | 4.4  | 4.7   |
| 19          | 40    | 33      | 66        | 48       | 67      | 104       | 13       | 19     | 27    | 11     | 6.3  | 3.8   |
| 20          | 28    | 32      | 53        | 49       | 48      | 85        | 11       | 16     | 108   | 9.9    | 2.4  | 3.3   |
| 21          | 23    | 32      | 47        | 52       | 42      | 103       | 11       | 13     | 36    | 8.4    | 2.6  | 3.9   |
| 22          | 21    | 30      | 43        | 47       | 50      | 96        | 10       | 12     | 22    | 7.3    | 2.8  | 6.0   |
| 23          | 20    | 32      | 40        | 44       | 47      | 69        | 9.2      | 19     | 18    | 6.4    | 2.4  | 4.2   |
| 24          | 19    | 33      | 36        | 44       | 38      | 60        | 9.1      | 55     | 27    | 5.8    | 2.1  | 3.3   |
| 25          | 18    | 29      | 35        | 43       | 36      | 57        | 9.6      | 133    | 29    | 4.6    | 1.9  | 3.3   |
| 26          | 18    | 27      | 120       | 68       | 35      | 56        | 12       | 49     | 19    | 4.3    | 2.6  | 4.1   |
| 27          | 17    | 27      | 72        | 230      | 36      | 52        | 8.6      | 40     | 19    | 3.7    | 8.1  | 14    |
| 28          | 18    | 25      | 52        | 172      | 35      | 50        | 8.2      | 208    | 16    | 4.1    | 2.4  | 11    |
| 29          | 17    | 24      | 45        | 105      | 34      | 47        | 7.1      | 285    | 12    | 3.7    | 2.2  | 9.2   |
| 30          | 16    | 24      | 174       | 87       | ---     | 50        | 21       | 90     | 19    | 3.6    | 2.3  | 9.2   |
| 31          | 14    | ---     | 404       | 76       | ---     | 61        | ---      | 52     | ---   | 3.3    | 2.2  | ---   |
| TOTAL       | 828   | 1220    | 1948      | 2898     | 1634    | 3033      | 596.8    | 1484.6 | 768.3 | 1606.1 | 99.1 | 172.8 |
| MEAN        | 26.7  | 40.7    | 62.8      | 93.5     | 56.3    | 97.8      | 19.9     | 47.9   | 25.6  | 51.8   | 3.20 | 5.76  |
| MAX         | 95    | 308     | 404       | 335      | 158     | 724       | 56       | 285    | 108   | 656    | 14   | 23    |
| MIN         | 14    | 14      | 24        | 43       | 34      | 30        | 7.1      | 7.5    | 9.5   | 3.3    | 1.8  | 1.6   |
| CFSM        | .49   | .74     | 1.14      | 1.70     | 1.02    | 1.78      | .36      | .87    | .47   | .94    | .06  | .10   |
| IN.         | .56   | .83     | 1.32      | 1.96     | 1.11    | 2.05      | .40      | 1.00   | .52   | 1.09   | .07  | .12   |
| CAL YR 1975 | TOTAL | 30010.4 | MEAN 82.2 | MAX 1610 | MIN 3.9 | CFSM 1.49 | IN 20.30 |        |       |        |      |       |
| WTR YR 1976 | TOTAL | 16288.7 | MEAN 44.5 | MAX 724  | MIN 1.6 | CFSM .81  | IN 11.02 |        |       |        |      |       |



02197600 BRUSHY CREEK NEAR WRENS, GA.

LOCATION.--Lat 33°10'37", long 82°18'20", Jefferson County, 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 mi<sup>2</sup> (72.5 km<sup>2</sup>).

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 good except those for periods of no gage-height record, which are fair.

AVERAGE DISCHARGE.--18 years, 28.5 ft<sup>3</sup>/s (0.807 m<sup>3</sup>/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 ft<sup>3</sup>/s (0.156 m<sup>3</sup>/s) Aug. 29, 30, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 300 ft<sup>3</sup>/s (8.50 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|
| Mar. 17 | 1700 | *229 6.48                                             | 5.24 1.597              |

Minimum daily discharge, 7.6 ft<sup>3</sup>/s (0.215 m<sup>3</sup>/s) Aug. 16.

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

| DAY         | OCT   | NOV     | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL   | AUG   | SEP   |
|-------------|-------|---------|------|------|------|------|------|------|------|-------|-------|-------|
| 1           | 18    | 14      | 22   | 74   | 37   | 17   | 27   | 49   | 16   | 22    | 8.2   | 8.2   |
| 2           | 20    | 14      | 21   | 54   | 36   | 19   | 23   | 26   | 15   | 16    | 8.2   | 8.2   |
| 3           | 17    | 13      | 18   | 37   | 28   | 18   | 21   | 21   | 17   | 14    | 7.8   | 8.4   |
| 4           | 16    | 13      | 17   | 31   | 25   | 17   | 20   | 16   | 36   | 14    | 8.2   | 8.8   |
| 5           | 16    | 13      | 17   | 26   | 26   | 17   | 19   | 15   | 19   | 16    | 8.2   | 8.8   |
| 6           | 15    | 14      | 16   | 25   | 28   | 16   | 17   | 15   | 15   | 33    | 8.2   | 9.0   |
| 7           | 15    | 69      | 16   | 38   | 32   | 16   | 16   | 14   | 13   | 37    | 7.8   | 9.6   |
| 8           | 34    | 74      | 17   | 101  | 25   | 17   | 16   | 16   | 12   | 22    | 8.0   | 9.3   |
| 9           | 26    | 34      | 26   | 59   | 23   | 25   | 15   | 16   | 12   | 16    | 8.2   | 9.6   |
| 10          | 17    | 22      | 25   | 40   | 21   | 20   | 15   | 15   | 12   | 14    | 8.2   | 8.8   |
| 11          | 16    | 18      | 20   | 36   | 20   | 17   | 14   | 16   | 11   | 13    | 8.0   | 8.4   |
| 12          | 15    | 32      | 18   | 34   | 20   | 17   | 14   | 16   | 10   | 12    | 7.8   | 8.2   |
| 13          | 14    | 46      | 17   | 31   | 19   | 53   | 14   | 15   | 10   | 11    | 7.8   | 8.2   |
| 14          | 14    | 25      | 17   | 27   | 19   | 32   | 14   | 15   | 12   | 10    | 7.6   | 33    |
| 15          | 15    | 22      | 18   | 26   | 19   | 22   | 14   | 22   | 15   | 10    | 8.4   | 37    |
| 16          | 14    | 21      | 18   | 25   | 19   | 190  | 13   | 19   | 20   | 10    | 9.6   | 19    |
| 17          | 27    | 23      | 32   | 25   | 20   | 98   | 13   | 16   | 16   | 10    | 14    | 14    |
| 18          | 37    | 20      | 37   | 24   | 24   | 60   | 13   | 16   | 24   | 10    | 9.6   | 12    |
| 19          | 23    | 19      | 25   | 24   | 30   | 48   | 13   | 15   | 49   | 10    | 8.6   | 11    |
| 20          | 18    | 18      | 24   | 24   | 20   | 42   | 13   | 14   | 39   | 10    | 8.4   | 11    |
| 21          | 17    | 18      | 20   | 26   | 19   | 46   | 13   | 13   | 21   | 10    | 10    | 11    |
| 22          | 16    | 18      | 21   | 23   | 21   | 43   | 13   | 13   | 17   | 9.6   | 10    | 11    |
| 23          | 15    | 18      | 19   | 22   | 21   | 34   | 13   | 17   | 15   | 9.9   | 9.9   | 11    |
| 24          | 13    | 18      | 17   | 20   | 19   | 31   | 13   | 37   | 15   | 9.9   | 9.0   | 10    |
| 25          | 14    | 18      | 17   | 23   | 18   | 34   | 15   | 59   | 14   | 9.3   | 11    | 10    |
| 26          | 16    | 18      | 40   | 28   | 19   | 30   | 19   | 37   | 13   | 8.6   | 15    | 10    |
| 27          | 22    | 17      | 26   | 68   | 18   | 29   | 16   | 23   | 13   | 8.8   | 11    | 16    |
| 28          | 14    | 17      | 21   | 57   | 16   | 27   | 13   | 47   | 13   | 8.6   | 9.3   | 15    |
| 29          | 14    | 17      | 20   | 34   | 16   | 25   | 13   | 47   | 13   | 8.6   | 8.8   | 14    |
| 30          | 14    | 16      | 30   | 28   | ---  | 28   | 42   | 23   | 29   | 8.6   | 8.4   | 19    |
| 31          | 14    | ---     | 68   | 31   | ---  | 35   | ---  | 18   | ---  | 8.6   | 8.2   | ---   |
| TOTAL       | 556   | 699     | 720  | 1121 | 658  | 1123 | 494  | 701  | 536  | 410.5 | 281.4 | 377.5 |
| MEAN        | 17.9  | 23.3    | 23.2 | 36.2 | 22.7 | 36.2 | 16.5 | 22.6 | 17.9 | 13.2  | 9.08  | 12.6  |
| MAX         | 37    | 74      | 68   | 101  | 37   | 190  | 42   | 59   | 49   | 37    | 15    | 37    |
| MIN         | 13    | 13      | 16   | 20   | 16   | 16   | 13   | 13   | 10   | 8.6   | 7.6   | 8.2   |
| CFSM        | .64   | .83     | .83  | 1.29 | .81  | 1.29 | .59  | .81  | .64  | .47   | .32   | .45   |
| IN.         | .74   | .93     | .96  | 1.49 | .87  | 1.49 | .66  | .93  | .71  | .55   | .37   | .50   |
| CAL YR 1975 | TOTAL | 13119.0 | MEAN | 35.9 | MAX  | 270  | MIN  | 11   | CFSM | 1.28  | IN    | 17.43 |
| WTR YR 1976 | TOTAL | 7677.4  | MEAN | 21.0 | MAX  | 190  | MIN  | 7.6  | CFSM | .75   | IN    | 10.20 |

NOTE.--No gage-height record Mar. 27 to Apr. 27,  
June 9-16.

## SAVANNAH RIVER BASIN

49

02197830 BRIER CREEK NEAR WAYNESBORO, GA.

LOCATION.--Lat 33°07'05", long 81°57'50", Burke County, 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 mi<sup>2</sup> (1,225 km<sup>2</sup>).

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.

AVERAGE DISCHARGE.--7 years, 514 ft<sup>3</sup>/s (14.6 m<sup>3</sup>/s), 14.76 in/yr (374.9 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,800 ft<sup>3</sup>/s (306 m<sup>3</sup>/s) Mar. 15, 1971, gage height, 12.28 ft (3.743 m); minimum, 95 ft<sup>3</sup>/s (2.69 m<sup>3</sup>/s) Oct. 7, 8, 1970, gage height, 2.28 ft (0.695 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft<sup>3</sup>/s (53.8 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Jan. 4  | 0400 | 2040 57.8                                             | 7.64 2.329              | July 10 | 1300 | 2130 60.3                                             | 7.63 2.325              |
| Mar. 20 | 0100 | *2360 66.8                                            | 7.96 2.426              |         |      |                                                       |                         |

Minimum discharge, 147 ft<sup>3</sup>/s (4.16 m<sup>3</sup>/s) Sept. 2, gage height, 2.91 ft (0.887 m).

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

| DAY         | OCT   | NOV    | DEC      | JAN      | FEB     | MAR       | APR      | MAY   | JUN   | JUL   | AUG  | SEP  |
|-------------|-------|--------|----------|----------|---------|-----------|----------|-------|-------|-------|------|------|
| 1           | 348   | 296    | 417      | 753      | 972     | 396       | 484      | 347   | 782   | 402   | 175  | 156  |
| 2           | 341   | 295    | 428      | 765      | 805     | 392       | 472      | 399   | 812   | 351   | 173  | 152  |
| 3           | 316   | 293    | 431      | 1310     | 667     | 387       | 467      | 471   | 644   | 342   | 275  | 156  |
| 4           | 320   | 289    | 440      | 1880     | 626     | 387       | 469      | 475   | 574   | 341   | 234  | 160  |
| 5           | 336   | 290    | 444      | 1340     | 646     | 384       | 456      | 445   | 554   | 366   | 189  | 170  |
| 6           | 351   | 294    | 450      | 914      | 721     | 376       | 421      | 350   | 500   | 409   | 168  | 172  |
| 7           | 353   | 318    | 436      | 738      | 640     | 370       | 395      | 271   | 466   | 433   | 159  | 180  |
| 8           | 364   | 367    | 414      | 858      | 573     | 364       | 379      | 238   | 407   | 508   | 158  | 182  |
| 9           | 414   | 387    | 429      | 876      | 545     | 413       | 367      | 237   | 319   | 716   | 162  | 190  |
| 10          | 412   | 565    | 471      | 925      | 518     | 422       | 354      | 250   | 282   | 1920  | 158  | 180  |
| 11          | 473   | 1040   | 474      | 1090     | 503     | 427       | 346      | 332   | 261   | 1570  | 325  | 167  |
| 12          | 423   | 991    | 500      | 1290     | 487     | 446       | 337      | 360   | 241   | 957   | 356  | 161  |
| 13          | 394   | 809    | 505      | 959      | 461     | 542       | 329      | 315   | 227   | 590   | 232  | 170  |
| 14          | 392   | 583    | 498      | 757      | 458     | 599       | 313      | 295   | 453   | 423   | 181  | 280  |
| 15          | 351   | 578    | 476      | 659      | 464     | 621       | 344      | 378   | 333   | 348   | 174  | 431  |
| 16          | 318   | 583    | 439      | 622      | 459     | 959       | 339      | 455   | 283   | 302   | 192  | 429  |
| 17          | 321   | 951    | 457      | 599      | 451     | 1330      | 314      | 452   | 435   | 265   | 222  | 495  |
| 18          | 363   | 881    | 508      | 579      | 447     | 1370      | 296      | 399   | 446   | 257   | 191  | 497  |
| 19          | 401   | 613    | 520      | 550      | 470     | 1880      | 284      | 426   | 415   | 256   | 188  | 446  |
| 20          | 448   | 513    | 573      | 531      | 488     | 2070      | 270      | 488   | 468   | 245   | 165  | 376  |
| 21          | 485   | 471    | 660      | 521      | 492     | 1320      | 260      | 383   | 632   | 232   | 165  | 293  |
| 22          | 576   | 447    | 640      | 515      | 486     | 919       | 284      | 286   | 704   | 223   | 169  | 249  |
| 23          | 548   | 436    | 620      | 503      | 482     | 729       | 270      | 262   | 585   | 239   | 177  | 224  |
| 24          | 434   | 434    | 535      | 498      | 465     | 644       | 252      | 379   | 570   | 234   | 181  | 221  |
| 25          | 371   | 423    | 486      | 496      | 445     | 620       | 235      | 399   | 462   | 211   | 195  | 218  |
| 26          | 344   | 412    | 500      | 497      | 433     | 611       | 230      | 442   | 380   | 203   | 211  | 234  |
| 27          | 329   | 410    | 509      | 606      | 427     | 558       | 225      | 510   | 357   | 191   | 191  | 239  |
| 28          | 322   | 416    | 528      | 763      | 412     | 525       | 222      | 727   | 470   | 180   | 189  | 245  |
| 29          | 317   | 414    | 556      | 823      | 400     | 502       | 227      | 1110  | 411   | 172   | 185  | 351  |
| 30          | 315   | 406    | 612      | 891      | ---     | 489       | 263      | 745   | 389   | 174   | 181  | 484  |
| 31          | 302   | ---    | 730      | 1060     | ---     | 481       | ---      | 619   | ---   | 181   | 175  | ---  |
| TOTAL       | 11782 | 15205  | 15686    | 25168    | 15443   | 21533     | 9904     | 13245 | 13862 | 13241 | 6096 | 7908 |
| MEAN        | 380   | 507    | 506      | 812      | 533     | 695       | 330      | 427   | 462   | 427   | 197  | 264  |
| MAX         | 576   | 1040   | 730      | 1880     | 972     | 2070      | 484      | 1110  | 812   | 1920  | 356  | 497  |
| MIN         | 302   | 289    | 414      | 496      | 400     | 364       | 222      | 237   | 227   | 172   | 158  | 152  |
| CFSM        | .80   | 1.07   | 1.07     | 1.72     | 1.13    | 1.47      | .70      | .90   | .98   | .90   | .42  | .56  |
| IN.         | .93   | 1.20   | 1.23     | 1.98     | 1.21    | 1.69      | .78      | 1.04  | 1.09  | 1.04  | .48  | .62  |
| CAL YR 1975 | TOTAL | 252108 | MEAN 691 | MAX 3540 | MIN 204 | CFSM 1.46 | IN 19.83 |       |       |       |      |      |
| WTR YR 1976 | TOTAL | 169073 | MEAN 462 | MAX 2070 | MIN 152 | CFSM .98  | IN 13.30 |       |       |       |      |      |

## SAVANNAH RIVER BASIN

02198000 BRIER CREEK AT MILLHAVEN, GA.

LOCATION.--Lat 32°56'00", long 81°39'05", Screven County, 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 mi<sup>2</sup> (1,670 km<sup>2</sup>).

## 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.--40 years, 670 ft<sup>3</sup>/s (19.0 m<sup>3</sup>/s), 14.08 in/yr (357.6 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,400 ft<sup>3</sup>/s (719 m<sup>3</sup>/s) Aug. 16, 1940, gage height, 17.4 ft (5.304 m), from graph based on gage readings; minimum daily, 64 ft<sup>3</sup>/s (1.81 m<sup>3</sup>/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 ft<sup>3</sup>/s (1,810 m<sup>3</sup>/s), by slope-conveyance study.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft<sup>3</sup>/s (56.6 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Mar. 22 | 0700 | *2290 64.9                                            | 8.54 2.603              | May 30 | 2100 | 2010 56.9                                             | 8.06 2.457              |

Minimum discharge, 183 ft<sup>3</sup>/s (5.18 m<sup>3</sup>/s) Sept. 13, gage height, 1.47 ft (0.448 m).

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

| DAY         | OCT   | NOV    | DEC      | JAN      | FEB     | MAR       | APR      | MAY   | JUN   | JUL   | AUG  | SEP   |
|-------------|-------|--------|----------|----------|---------|-----------|----------|-------|-------|-------|------|-------|
| 1           | 618   | 351    | 509      | 857      | 1070    | 562       | 684      | 544   | 1310  | 691   | 247  | 225   |
| 2           | 529   | 348    | 528      | 912      | 1300    | 547       | 660      | 543   | 967   | 655   | 243  | 211   |
| 3           | 443   | 342    | 527      | 969      | 1380    | 534       | 635      | 497   | 955   | 660   | 305  | 202   |
| 4           | 381   | 339    | 528      | 956      | 1200    | 527       | 617      | 464   | 1330  | 749   | 375  | 194   |
| 5           | 355   | 340    | 523      | 1020     | 1030    | 519       | 593      | 494   | 1150  | 694   | 377  | 194   |
| 6           | 347   | 341    | 520      | 1630     | 931     | 514       | 583      | 538   | 1020  | 997   | 324  | 198   |
| 7           | 351   | 346    | 526      | 1660     | 883     | 520       | 580      | 536   | 875   | 938   | 258  | 219   |
| 8           | 368   | 385    | 540      | 1600     | 893     | 511       | 555      | 479   | 732   | 957   | 234  | 249   |
| 9           | 415   | 409    | 582      | 1430     | 922     | 518       | 516      | 376   | 635   | 782   | 231  | 227   |
| 10          | 418   | 427    | 660      | 1210     | 861     | 517       | 479      | 323   | 561   | 706   | 221  | 217   |
| 11          | 429   | 450    | 636      | 1130     | 789     | 526       | 458      | 307   | 474   | 806   | 214  | 212   |
| 12          | 448   | 490    | 614      | 1090     | 742     | 554       | 439      | 356   | 400   | 1400  | 221  | 200   |
| 13          | 454   | 696    | 598      | 1130     | 708     | 650       | 419      | 374   | 361   | 1800  | 300  | 186   |
| 14          | 491   | 1050   | 589      | 1340     | 686     | 840       | 403      | 412   | 323   | 1360  | 361  | 263   |
| 15          | 464   | 1150   | 612      | 1290     | 658     | 830       | 397      | 414   | 317   | 962   | 308  | 474   |
| 16          | 430   | 982    | 630      | 1090     | 628     | 980       | 391      | 479   | 478   | 665   | 236  | 528   |
| 17          | 426   | 777    | 669      | 955      | 622     | 1180      | 394      | 577   | 1060  | 486   | 220  | 566   |
| 18          | 436   | 703    | 717      | 889      | 629     | 1310      | 396      | 685   | 916   | 401   | 234  | 525   |
| 19          | 406   | 734    | 673      | 840      | 714     | 1490      | 375      | 638   | 584   | 358   | 250  | 498   |
| 20          | 397   | 957    | 663      | 805      | 699     | 1570      | 353      | 549   | 806   | 366   | 229  | 526   |
| 21          | 404   | 963    | 661      | 771      | 656     | 1850      | 337      | 480   | 968   | 359   | 242  | 525   |
| 22          | 436   | 787    | 666      | 735      | 678     | 2210      | 372      | 518   | 1030  | 318   | 243  | 490   |
| 23          | 486   | 658    | 721      | 704      | 732     | 1740      | 368      | 542   | 959   | 294   | 237  | 395   |
| 24          | 538   | 586    | 817      | 688      | 706     | 1330      | 347      | 532   | 1430  | 306   | 228  | 306   |
| 25          | 620   | 548    | 897      | 679      | 673     | 1080      | 326      | 541   | 1170  | 293   | 230  | 263   |
| 26          | 619   | 529    | 889      | 675      | 648     | 953       | 305      | 559   | 931   | 389   | 250  | 301   |
| 27          | 513   | 521    | 806      | 907      | 622     | 885       | 284      | 568   | 830   | 314   | 270  | 313   |
| 28          | 433   | 512    | 715      | 1160     | 595     | 860       | 276      | 620   | 842   | 275   | 273  | 321   |
| 29          | 391   | 501    | 682      | 1070     | 576     | 826       | 268      | 874   | 719   | 253   | 245  | 383   |
| 30          | 372   | 497    | 670      | 1040     | ---     | 766       | 327      | 1610  | 681   | 237   | 255  | 589   |
| 31          | 358   | ---    | 735      | 1040     | ---     | 712       | ---      | 1780  | ---   | 234   | 249  | ---   |
| TOTAL       | 13776 | 17719  | 20103    | 32272    | 23231   | 28411     | 13137    | 18209 | 24814 | 19705 | 8110 | 10000 |
| MEAN        | 444   | 591    | 648      | 1041     | 801     | 916       | 438      | 587   | 827   | 636   | 262  | 333   |
| MAX         | 620   | 1150   | 897      | 1660     | 1380    | 2210      | 684      | 1780  | 1430  | 1800  | 377  | 589   |
| MIN         | 347   | 339    | 509      | 675      | 576     | 511       | 268      | 307   | 317   | 234   | 214  | 186   |
| CFSM        | .69   | .91    | 1.00     | 1.61     | 1.24    | 1.42      | .68      | .91   | 1.28  | .98   | .41  | .52   |
| IN.         | .79   | 1.02   | 1.16     | 1.86     | 1.34    | 1.64      | .76      | 1.05  | 1.43  | 1.13  | .47  | .58   |
| CAL YR 1975 | TOTAL | 330088 | MEAN 904 | MAX 3290 | MIN 263 | CFSM 1.40 | IN 19.01 |       |       |       |      |       |
| WTR YR 1976 | TOTAL | 229487 | MEAN 627 | MAX 2210 | MIN 186 | CFSM .97  | IN 13.22 |       |       |       |      |       |

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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|--------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| DEC<br>02... | 0930 | 530                                           | 6.2           | 9.5                         | 10.0                               |
| FEB<br>03... | 0945 | 1410                                          | 6.0           | 5.5                         | 11.0                               |
| MAY<br>04... | 1045 | 464                                           | 6.2           | 16.0                        | 8.9                                |
| AUG<br>02... | 1610 | 215                                           | 6.2           | 26.0                        | 6.9                                |

| DATE          | ALKA-<br>LITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) |
|---------------|----------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| DEC.<br>02... | --                                     | .02                                                  | <.02                                               | .05                                       | 16                                 |
| FEB.<br>03... | 9                                      | .04                                                  | <.02                                               | .03                                       | 12                                 |
| MAY<br>04...  | 15                                     | .24                                                  | <.02                                               | .05                                       | 19                                 |
| AUG.<br>02... | 17                                     | .29                                                  | .02                                                | .05                                       | 22                                 |

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| DEC.<br>02... | --                                                         | 20                                           | 6                            | --                                                           | 430                                              | 4.0                                         |
| FEB.<br>03... | 46                                                         | 30                                           | 8                            | .9                                                           | 750                                              | 6.0                                         |
| MAY<br>04...  | 61                                                         | 50                                           | 9                            | .7                                                           | 36                                               | 6.0                                         |
| AUG.<br>02... | 76                                                         | 40                                           | 8                            | --                                                           | --                                               | 6.0                                         |

## 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, 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 mi<sup>2</sup> (25,510 km<sup>2</sup>), 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. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell and Clark Hill Lakes (see stations 02178500, 02179500, 02187250, and 02194500).

AVERAGE DISCHARGE.--43 years, 12,070 ft<sup>3</sup>/s (342 m<sup>3</sup>/s), 16.64 in/yr (422.7 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 270,000 ft<sup>3</sup>/s (7,650 m<sup>3</sup>/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 ft<sup>3</sup>/s (3,400 m<sup>3</sup>/s); minimum daily, 1,950 ft<sup>3</sup>/s (55.2 m<sup>3</sup>/s) Sept. 27, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33,500 ft<sup>3</sup>/s (949 m<sup>3</sup>/s) June 14, 15, gage height, 15.87 ft (4.837 m); minimum daily, 7,660 ft<sup>3</sup>/s (217 m<sup>3</sup>/s) May 13.

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

| DAY         | OCT    | NOV     | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1           | 9850   | 15000   | 15700  | 10700  | 14700  | 9960   | 29700  | 8200   | 17300  | 15500  | 9990   | 7940   |
| 2           | 9540   | 15200   | 16000  | 11100  | 15600  | 10100  | 29100  | 8860   | 16900  | 15200  | 9450   | 7710   |
| 3           | 9770   | 15600   | 16300  | 12100  | 16400  | 10000  | 28100  | 9440   | 17000  | 15200  | 9220   | 7680   |
| 4           | 10000  | 15900   | 16400  | 13000  | 17000  | 9740   | 26900  | 9640   | 17500  | 15300  | 9300   | 7840   |
| 5           | 10500  | 16100   | 16400  | 13500  | 17700  | 9670   | 25800  | 9180   | 17900  | 15300  | 9340   | 8040   |
| 6           | 10800  | 16100   | 16400  | 14200  | 18200  | 9700   | 25000  | 8490   | 18100  | 15100  | 9090   | 8220   |
| 7           | 10100  | 16000   | 16400  | 14500  | 18400  | 9600   | 24600  | 8260   | 18500  | 14600  | 9040   | 8310   |
| 8           | 8990   | 15900   | 16600  | 14600  | 18500  | 9610   | 24600  | 8260   | 19400  | 14200  | 9090   | 8200   |
| 9           | 8750   | 16000   | 16800  | 14400  | 18500  | 9720   | 24500  | 8260   | 21200  | 14600  | 8970   | 8020   |
| 10          | 9680   | 16200   | 16800  | 14400  | 18500  | 9580   | 24100  | 8350   | 25100  | 15200  | 8740   | 7970   |
| 11          | 10500  | 16300   | 16800  | 14800  | 18600  | 9480   | 23500  | 8440   | 29700  | 15900  | 8400   | 8080   |
| 12          | 10900  | 16200   | 16000  | 15100  | 18600  | 9600   | 23000  | 8070   | 32100  | 16500  | 8160   | 8180   |
| 13          | 10900  | 15300   | 15800  | 15500  | 18500  | 9840   | 22600  | 7660   | 33200  | 17200  | 8300   | 8100   |
| 14          | 10400  | 13700   | 15800  | 15900  | 18300  | 10100  | 22200  | 7690   | 33400  | 18000  | 8570   | 8230   |
| 15          | 9910   | 13200   | 15800  | 16200  | 17900  | 10500  | 21400  | 8000   | 33000  | 18800  | 8620   | 8200   |
| 16          | 9940   | 13500   | 15000  | 16500  | 17100  | 11800  | 20100  | 8500   | 32000  | 19400  | 8690   | 8620   |
| 17          | 10300  | 14100   | 15000  | 16600  | 15700  | 13000  | 18700  | 8830   | 30500  | 19700  | 8700   | 9650   |
| 18          | 10800  | 14500   | 15400  | 16600  | 13400  | 13900  | 17300  | 9240   | 27900  | 19900  | 8320   | 10500  |
| 19          | 11200  | 15200   | 15200  | 16500  | 12100  | 14700  | 16000  | 9630   | 23900  | 19700  | 8040   | 10500  |
| 20          | 11600  | 15400   | 14800  | 16200  | 11300  | 15500  | 13900  | 11000  | 21300  | 19100  | 8030   | 9940   |
| 21          | 11900  | 15400   | 14800  | 15600  | 10800  | 16300  | 11100  | 12200  | 19300  | 18600  | 8130   | 9360   |
| 22          | 11800  | 15400   | 15200  | 14700  | 10500  | 17300  | 9720   | 13100  | 17900  | 18300  | 8300   | 8770   |
| 23          | 12200  | 15500   | 15600  | 13500  | 10700  | 18500  | 10100  | 13900  | 16700  | 17900  | 8490   | 8390   |
| 24          | 12900  | 15700   | 16000  | 11900  | 10600  | 20000  | 10100  | 15400  | 16200  | 17500  | 8540   | 8430   |
| 25          | 13500  | 15900   | 16000  | 10700  | 10300  | 23000  | 9240   | 16400  | 16000  | 17100  | 8370   | 8580   |
| 26          | 14000  | 15800   | 16000  | 10400  | 10200  | 26800  | 8370   | 17600  | 16000  | 17100  | 8230   | 8700   |
| 27          | 14500  | 15500   | 15600  | 10600  | 10400  | 29200  | 7960   | 18900  | 16100  | 16900  | 8400   | 8970   |
| 28          | 15000  | 15200   | 14800  | 11300  | 10300  | 30100  | 7810   | 19700  | 16200  | 16200  | 8640   | 9210   |
| 29          | 15300  | 15200   | 13800  | 12100  | 9960   | 30300  | 7740   | 19600  | 16100  | 14200  | 8650   | 9150   |
| 30          | 15100  | 15400   | 12800  | 12900  | ---    | 30200  | 7760   | 18900  | 15900  | 12100  | 8530   | 9380   |
| 31          | 14900  | ---     | 11400  | 13800  | ---    | 30000  | ---    | 18100  | ---    | 10800  | 8250   | ---    |
| TOTAL       | 355530 | 460400  | 481400 | 429900 | 428760 | 487800 | 551000 | 357800 | 652300 | 511100 | 268590 | 258870 |
| MEAN        | 11470  | 15350   | 15530  | 13870  | 14780  | 15740  | 18370  | 11540  | 21740  | 16490  | 8664   | 8629   |
| MAX         | 15300  | 16300   | 16800  | 16600  | 18600  | 30300  | 29700  | 19700  | 33400  | 19900  | 9990   | 10500  |
| MIN         | 8750   | 13200   | 11400  | 10400  | 9960   | 9480   | 7740   | 7660   | 15900  | 10800  | 8030   | 7680   |
| CAL YR 1975 | TOTAL  | 6374680 | MEAN   | 17460  | MAX    | 50700  | MIN    | 7870   |        |        |        |        |
| WTR YR 1976 | TOTAL  | 5243450 | MEAN   | 14330  | MAX    | 33400  | MIN    | 7660   |        |        |        |        |



## SAVANNAH RIVER BASIN

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## 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 current year.

WATER TEMPERATURES: May 1938 to April 1939, January 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 105 micromhos Mar. 14, 1974; minimum daily, 42 micromhos July 5, 1974.

WATER TEMPERATURES: Maximum daily, 27.0°C Aug. 23, 1975; minimum daily, 7.0°C Jan. 19, 1976.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 103 micromhos Aug. 30; minimum daily, 50 micromhos June 9, 12-14.

WATER TEMPERATURES: Maximum daily, 26.0°C July 30, 31, and on many days in Aug.; minimum daily, 7.0°C Jan. 19.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTANTANEOUS DISCHARGE (CFS) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | DIS-SOLVED OXYGEN (MG/L) |
|-------|------|-------------------------------|----------------------------------|------------|---------------------|--------------------------|
| OCT   |      |                               |                                  |            |                     |                          |
| 16... | 0830 | 9980                          | 76                               | 7.0        | 22.0                | 7.2                      |
| NOV   |      |                               |                                  |            |                     |                          |
| 12... | 1430 | 16400                         | 70                               | 7.1        | 22.0                | 6.6                      |
| DEC   |      |                               |                                  |            |                     |                          |
| 02... | 1130 | 16600                         | --                               | 5.8        | 13.0                | 8.4                      |
| 18... | 0945 | 16000                         | 66                               | 7.0        | 12.0                | 9.2                      |
| JAN   |      |                               |                                  |            |                     |                          |
| 14... | 1500 | 17400                         | 59                               | 7.1        | 9.0                 | 10.1                     |
| FEB   |      |                               |                                  |            |                     |                          |
| 03... | 1130 | 16600                         | 59                               | 6.1        | 7.5                 | 10.0                     |
| 12... | 1415 | 19200                         | 59                               | 6.9        | 11.0                | 10.1                     |
| MAR   |      |                               |                                  |            |                     |                          |
| 17... | 1430 | 12900                         | 74                               | 7.0        | 13.5                | 9.8                      |
| APR   |      |                               |                                  |            |                     |                          |
| 14... | 1430 | 23280                         | 60                               | 6.7        | 18.0                | 8.4                      |
| MAY   |      |                               |                                  |            |                     |                          |
| 04... | 0830 | 10220                         | 69                               | 6.8        | 18.0                | 7.8                      |
| 12... | 1430 | 8504                          | 70                               | 7.0        | 22.0                | 8.1                      |
| JUN   |      |                               |                                  |            |                     |                          |
| 09... | 1230 | 22600                         | 53                               | 6.7        | 20.0                | 7.2                      |
| JUL   |      |                               |                                  |            |                     |                          |
| 14... | 1330 | 18300                         | 57                               | 6.7        | 25.0                | 6.1                      |
| AUG   |      |                               |                                  |            |                     |                          |
| 03... | 0900 | 9240                          | 72                               | 6.2        | 25.0                | 7.3                      |
| 11... | 1330 | 8384                          | 100                              | 7.0        | 26.0                | 6.5                      |
| 25... | 0700 | 8430                          | --                               | --         | 24.0                | --                       |
| SEP   |      |                               |                                  |            |                     |                          |
| 14... | 1210 | 8264                          | 76                               | 7.2        | 23.0                | 8.6                      |

| DATE  | DIS-SOLVED SILICA (SI02) (MG/L) | TOTAL IRON (FE) (UG/L) | DIS-SOLVED IRON (FE) (UG/L) | TOTAL MANGANESE (MN) (UG/L) | DIS-SOLVED MANGANESE (MN) (UG/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) |
|-------|---------------------------------|------------------------|-----------------------------|-----------------------------|----------------------------------|--------------------------------|----------------------------------|-------------------------------|---------------------------------|
| DEC   |                                 |                        |                             |                             |                                  |                                |                                  |                               |                                 |
| 18... | 10                              | 900                    | 90                          | 50                          | 20                               | 4.6                            | 1.2                              | 6.0                           | 1.5                             |
| MAR   |                                 |                        |                             |                             |                                  |                                |                                  |                               |                                 |
| 17... | 9.6                             | 1300                   | 90                          | 70                          | 10                               | 8.1                            | 1.1                              | 6.5                           | 1.2                             |
| JUN   |                                 |                        |                             |                             |                                  |                                |                                  |                               |                                 |
| 09... | 9.5                             | 900                    | 360                         | 30                          | 10                               | 3.5                            | .1                               | 4.0                           | 1.3                             |
| SEP   |                                 |                        |                             |                             |                                  |                                |                                  |                               |                                 |
| 14... | 9.7                             | 910                    | 130                         | 60                          | 10                               | 4.0                            | 1.2                              | 7.2                           | 1.5                             |

## SAVANNAH RIVER BASIN

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE      | RICAR-<br>BONATE<br>(HCO3)<br>(MG/L) | CAR-<br>BONATE<br>(CO3)<br>(MG/L) | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | CARBON<br>DIOXIDE<br>(CO2)<br>(MG/L) | DIS-<br>SOLVFD<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|-----------|--------------------------------------|-----------------------------------|------------------------------------------|--------------------------------------|----------------------------------------------|---------------------------------------------------|--------------------------------------------------|------------------------------------------------------|----------------------------------------------------------|
| OCT 16... | --                                   | --                                | --                                       | --                                   | --                                           | --                                                | --                                               | .29                                                  | .27                                                      |
| NOV 12... | --                                   | --                                | --                                       | --                                   | --                                           | --                                                | --                                               | .07                                                  | .41                                                      |
| DEC 02... | --                                   | --                                | --                                       | --                                   | --                                           | --                                                | --                                               | .18                                                  | --                                                       |
| 18...     | 25                                   | 0                                 | 21                                       | 4.0                                  | 4.1                                          | 4.1                                               | .1                                               | .25                                                  | .28                                                      |
| JAN 14... | --                                   | --                                | --                                       | --                                   | --                                           | --                                                | --                                               | .21                                                  | .27                                                      |
| FEB 03... | --                                   | --                                | 14                                       | --                                   | --                                           | --                                                | --                                               | .18                                                  | --                                                       |
| 12...     | --                                   | --                                | --                                       | --                                   | --                                           | --                                                | --                                               | .18                                                  | .30                                                      |
| MAR 17... | 26                                   | 0                                 | 21                                       | 4.2                                  | 5.1                                          | 6.4                                               | .3                                               | .25                                                  | .30                                                      |
| APR 14... | --                                   | --                                | --                                       | --                                   | --                                           | --                                                | --                                               | .20                                                  | .27                                                      |
| MAY 04... | --                                   | --                                | 15                                       | --                                   | --                                           | --                                                | --                                               | .46                                                  | --                                                       |
| 12...     | --                                   | --                                | --                                       | --                                   | --                                           | --                                                | --                                               | .42                                                  | .30                                                      |
| JUN 09... | 17                                   | 0                                 | 14                                       | 5.4                                  | 3.3                                          | 3.4                                               | .2                                               | .18                                                  | .25                                                      |
| JUL 14... | --                                   | --                                | --                                       | --                                   | --                                           | --                                                | --                                               | .27                                                  | .34                                                      |
| AUG 03... | --                                   | --                                | 17                                       | --                                   | --                                           | --                                                | --                                               | .45                                                  | --                                                       |
| 11...     | --                                   | --                                | --                                       | --                                   | --                                           | --                                                | --                                               | .46                                                  | .23                                                      |
| SEP 14... | 26                                   | 0                                 | 21                                       | 2.6                                  | 5.2                                          | 5.6                                               | .1                                               | .34                                                  | .22                                                      |

| DATE      | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | TUR-<br>BID-<br>ITY<br>(JTU) | TOTAL<br>PHYTO-<br>PLANK-<br>TON<br>(CELLS<br>PER<br>ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|-----------|-----------------------------------------|-------------------------------------------|-------------------------------------------|------------------------------------------------------------------|------------------------------------|---------------------------------------------------|------------------------------|----------------------------------------------------------|---------------------------------------------|
| OCT 16... | .56                                     | 2.5                                       | .07                                       | --                                                               | --                                 | --                                                | --                           | 450                                                      | --                                          |
| NOV 12... | .48                                     | 2.1                                       | .06                                       | --                                                               | --                                 | --                                                | --                           | 79                                                       | --                                          |
| DEC 02... | --                                      | --                                        | .05                                       | --                                                               | 14                                 | --                                                | 11                           | --                                                       | 3.0                                         |
| 18...     | .53                                     | 2.3                                       | .09                                       | 41                                                               | 16                                 | 0                                                 | 8                            | 130                                                      | 3.4                                         |
| JAN 14... | .48                                     | 2.1                                       | .06                                       | --                                                               | --                                 | --                                                | --                           | 770                                                      | --                                          |
| FEB 03... | --                                      | --                                        | .04                                       | --                                                               | 14                                 | --                                                | 14                           | --                                                       | 5.0                                         |
| 12...     | .48                                     | 2.1                                       | .04                                       | --                                                               | --                                 | --                                                | --                           | 400                                                      | --                                          |
| MAR 17... | .55                                     | 2.4                                       | .09                                       | 48                                                               | 25                                 | 3                                                 | 20                           | 380                                                      | 6.4                                         |
| APR 14... | .47                                     | 2.1                                       | .03                                       | --                                                               | --                                 | --                                                | --                           | 510                                                      | --                                          |
| MAY 04... | --                                      | --                                        | .09                                       | --                                                               | 15                                 | --                                                | 20                           | --                                                       | 8.0                                         |
| 12...     | .72                                     | 3.2                                       | .07                                       | --                                                               | --                                 | --                                                | --                           | 60                                                       | --                                          |
| JUN 09... | .43                                     | 1.9                                       | .04                                       | 34                                                               | 9                                  | 0                                                 | 10                           | 140                                                      | --                                          |
| JUL 14... | .61                                     | 2.7                                       | .06                                       | --                                                               | --                                 | --                                                | --                           | 17                                                       | --                                          |
| AUG 03... | --                                      | --                                        | .08                                       | --                                                               | 16                                 | --                                                | 16                           | --                                                       | 3.0                                         |
| 11...     | .69                                     | 3.1                                       | .08                                       | --                                                               | --                                 | --                                                | --                           | 140                                                      | --                                          |
| SEP 14... | .56                                     | 2.5                                       | .09                                       | 58                                                               | 15                                 | 0                                                 | 10                           | 170                                                      | 2.8                                         |

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## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TOTAL<br>ARSENIC<br>(AS)<br>(UG/L) | DIS-<br>SOLVED<br>ARSENIC<br>(AS)<br>(UG/L) | TOTAL<br>CAD-<br>MIUM<br>(CD)<br>(UG/L) | DIS-<br>SOLVED<br>CAD-<br>MIUM<br>(CD)<br>(UG/L) | TOTAL<br>CHRO-<br>MIUM<br>(CR)<br>(UG/L) | DIS-<br>SOLVED<br>CHRO-<br>MIUM<br>(CR)<br>(UG/L) | TOTAL<br>COBALT<br>(CO)<br>(UG/L) | DIS-<br>SOLVED<br>COBALT<br>(CO)<br>(UG/L) | TOTAL<br>COPPER<br>(CU)<br>(UG/L) | DIS-<br>SOLVED<br>COPPER<br>(CU)<br>(UG/L) |
|-------|------------------------------------|---------------------------------------------|-----------------------------------------|--------------------------------------------------|------------------------------------------|---------------------------------------------------|-----------------------------------|--------------------------------------------|-----------------------------------|--------------------------------------------|
| OCT   |                                    |                                             |                                         |                                                  |                                          |                                                   |                                   |                                            |                                   |                                            |
| 16... | --                                 | --                                          | --                                      | --                                               | --                                       | --                                                | --                                | --                                         | --                                | --                                         |
| NOV   |                                    |                                             |                                         |                                                  |                                          |                                                   |                                   |                                            |                                   |                                            |
| 12... | --                                 | --                                          | --                                      | --                                               | --                                       | --                                                | --                                | --                                         | --                                | --                                         |
| DEC   |                                    |                                             |                                         |                                                  |                                          |                                                   |                                   |                                            |                                   |                                            |
| 18... | 0                                  | 0                                           | 0                                       | 0                                                | <10                                      | 0                                                 | 0                                 | 0                                          | 2                                 | 2                                          |
| JAN   |                                    |                                             |                                         |                                                  |                                          |                                                   |                                   |                                            |                                   |                                            |
| 14... | --                                 | --                                          | --                                      | --                                               | --                                       | --                                                | --                                | --                                         | --                                | --                                         |
| FEB   |                                    |                                             |                                         |                                                  |                                          |                                                   |                                   |                                            |                                   |                                            |
| 12... | --                                 | --                                          | --                                      | --                                               | --                                       | --                                                | --                                | --                                         | --                                | --                                         |
| MAR   |                                    |                                             |                                         |                                                  |                                          |                                                   |                                   |                                            |                                   |                                            |
| 17... | 1                                  | 1                                           | 0                                       | 0                                                | <10                                      | 0                                                 | 0                                 | 0                                          | 1                                 | 0                                          |
| APR   |                                    |                                             |                                         |                                                  |                                          |                                                   |                                   |                                            |                                   |                                            |
| 14... | --                                 | --                                          | --                                      | --                                               | --                                       | --                                                | --                                | --                                         | --                                | --                                         |
| MAY   |                                    |                                             |                                         |                                                  |                                          |                                                   |                                   |                                            |                                   |                                            |
| 12... | --                                 | --                                          | --                                      | --                                               | --                                       | --                                                | --                                | --                                         | --                                | --                                         |
| JUN   |                                    |                                             |                                         |                                                  |                                          |                                                   |                                   |                                            |                                   |                                            |
| 09... | 0                                  | 0                                           | 0                                       | 0                                                | 10                                       | 1                                                 | 0                                 | 0                                          | 1                                 | 1                                          |
| JUL   |                                    |                                             |                                         |                                                  |                                          |                                                   |                                   |                                            |                                   |                                            |
| 14... | --                                 | --                                          | --                                      | --                                               | --                                       | --                                                | --                                | --                                         | --                                | --                                         |
| AUG   |                                    |                                             |                                         |                                                  |                                          |                                                   |                                   |                                            |                                   |                                            |
| 11... | --                                 | --                                          | --                                      | --                                               | --                                       | --                                                | --                                | --                                         | --                                | --                                         |
| SEP   |                                    |                                             |                                         |                                                  |                                          |                                                   |                                   |                                            |                                   |                                            |
| 14... | 0                                  | 0                                           | 0                                       | 1                                                | 10                                       | 0                                                 | 0                                 | 0                                          | 6                                 | 0                                          |

| DATE  | TOTAL<br>LEAD<br>(PB)<br>(UG/L) | DIS-<br>SOLVED<br>LEAD<br>(PB)<br>(UG/L) | TOTAL<br>MERCURY<br>(HG)<br>(UG/L) | DIS-<br>SOLVED<br>MERCURY<br>(HG)<br>(UG/L) | TOTAL<br>SELE-<br>NIUM<br>(SE)<br>(UG/L) | DIS-<br>SOLVED<br>SELE-<br>NIUM<br>(SE)<br>(UG/L) | TOTAL<br>ZINC<br>(ZN)<br>(UG/L) | DIS-<br>SOLVED<br>ZINC<br>(ZN)<br>(UG/L) | SUS-<br>PENDE<br>SEDIM-<br>ENT<br>(MG/L) | SUS-<br>PENDE<br>SEDIM-<br>ENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|-------|---------------------------------|------------------------------------------|------------------------------------|---------------------------------------------|------------------------------------------|---------------------------------------------------|---------------------------------|------------------------------------------|------------------------------------------|-------------------------------------------------------------|
| OCT   |                                 |                                          |                                    |                                             |                                          |                                                   |                                 |                                          |                                          |                                                             |
| 16... | --                              | --                                       | --                                 | --                                          | --                                       | --                                                | --                              | --                                       | 18                                       | 485                                                         |
| NOV   |                                 |                                          |                                    |                                             |                                          |                                                   |                                 |                                          | 18                                       | 797                                                         |
| 12... | --                              | --                                       | --                                 | --                                          | --                                       | --                                                | --                              | --                                       | 18                                       | 797                                                         |
| DEC   |                                 |                                          |                                    |                                             |                                          |                                                   |                                 |                                          | 18                                       | 797                                                         |
| 18... | 0                               | 0                                        | .2                                 | .0                                          | 0                                        | 0                                                 | 20                              | 0                                        | 23                                       | 994                                                         |
| JAN   |                                 |                                          |                                    |                                             |                                          |                                                   |                                 |                                          | 19                                       | 926                                                         |
| 14... | --                              | --                                       | --                                 | --                                          | --                                       | --                                                | --                              | --                                       | 19                                       | 926                                                         |
| FEB   |                                 |                                          |                                    |                                             |                                          |                                                   |                                 |                                          | 9                                        | 492                                                         |
| 12... | --                              | --                                       | --                                 | --                                          | --                                       | --                                                | --                              | --                                       | 9                                        | 492                                                         |
| MAR   |                                 |                                          |                                    |                                             |                                          |                                                   |                                 |                                          | 32                                       | 1120                                                        |
| 17... | 9                               | 2                                        | .2                                 | .2                                          | 0                                        | 0                                                 | 10                              | 0                                        | 32                                       | 1120                                                        |
| APR   |                                 |                                          |                                    |                                             |                                          |                                                   |                                 |                                          | 12                                       | 754                                                         |
| 14... | --                              | --                                       | --                                 | --                                          | --                                       | --                                                | --                              | --                                       | 12                                       | 754                                                         |
| MAY   |                                 |                                          |                                    |                                             |                                          |                                                   |                                 |                                          | 16                                       | 367                                                         |
| 12... | --                              | --                                       | --                                 | --                                          | --                                       | --                                                | --                              | --                                       | 16                                       | 367                                                         |
| JUN   |                                 |                                          |                                    |                                             |                                          |                                                   |                                 |                                          | 9                                        | 592                                                         |
| 09... | 11                              | 5                                        | .3                                 | .3                                          | 1                                        | 0                                                 | 20                              | 0                                        | 9                                        | 592                                                         |
| JUL   |                                 |                                          |                                    |                                             |                                          |                                                   |                                 |                                          | 11                                       | 544                                                         |
| 14... | --                              | --                                       | --                                 | --                                          | --                                       | --                                                | --                              | --                                       | 11                                       | 544                                                         |
| AUG   |                                 |                                          |                                    |                                             |                                          |                                                   |                                 |                                          | 23                                       | 530                                                         |
| 11... | --                              | --                                       | --                                 | --                                          | --                                       | --                                                | --                              | --                                       | 23                                       | 530                                                         |
| SEP   |                                 |                                          |                                    |                                             |                                          |                                                   |                                 |                                          | 6                                        | 152                                                         |
| 14... | 6                               | 4                                        | .2                                 | .2                                          | 0                                        | 0                                                 | 10                              | 20                                       | 6                                        | 152                                                         |

| DATE  | TOTAL<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | DIS-<br>SOLVED<br>GROSS<br>ALPHA<br>AS<br>U-NAT.<br>(UG/L) | SUS-<br>PENDE<br>GROSS<br>ALPHA<br>AS<br>U-NAT.<br>(UG/L) | DIS-<br>SOLVED<br>GROSS<br>BETA<br>AS<br>CS-137<br>(PC/L) | SUS-<br>PENDE<br>GROSS<br>BETA<br>AS<br>CS-137<br>(PC/L) | DIS-<br>SOLVED<br>GROSS<br>BETA<br>AS<br>SR90<br>/Y90<br>(PC/L) | SUS-<br>PENDE<br>GROSS<br>BETA<br>AS<br>SR90<br>/Y90<br>(PC/L) | DIS-<br>SOLVED<br>RA-226<br>(RADON<br>METHOD)<br>(PC/L) | DIS-<br>SOLVED<br>URANIUM<br>(U)<br>(UG/L) |
|-------|----------------------------------------------|------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------|
| AUG   |                                              |                                                      |                                                            |                                                           |                                                           |                                                          |                                                                 |                                                                |                                                         |                                            |
| 25... | 47                                           | 19                                                   | <.8                                                        | 2.2                                                       | 2.5                                                       | .8                                                       | 2.0                                                             | .7                                                             | .03                                                     | <.01                                       |

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
(ONCE-DAILY)

| DAY   | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1     | 68  | 61  | 55  | 66  | 61  | --- | 58  | 73  | 60  | 66  | 72  | 76  |
| 2     | 66  | 60  | 57  | 67  | 60  | --- | 61  | 73  | 59  | 60  | 78  | 78  |
| 3     | 67  | 62  | 58  | 60  | 59  | --- | 58  | 71  | 61  | 60  | 76  | 90  |
| 4     | 64  | 61  | 59  | 58  | 61  | --- | 58  | 70  | 56  | 57  | 76  | 81  |
| 5     | 65  | 64  | 54  | 67  | 63  | --- | 58  | 70  | 53  | 60  | 72  | 80  |
| 6     | 69  | 85  | 54  | 59  | 61  | --- | 57  | 70  | 53  | 61  | 76  | 77  |
| 7     | 65  | 60  | 54  | 58  | 80  | --- | 58  | 72  | 52  | 63  | 75  | 77  |
| 8     | 65  | 64  | 56  | 62  | 59  | --- | 58  | 75  | 51  | 69  | 75  | 80  |
| 9     | 66  | 58  | 57  | 58  | 58  | --- | 58  | 74  | 50  | 65  | 76  | 79  |
| 10    | 66  | 61  | 61  | 56  | 57  | --- | 59  | 71  | 58  | 58  | 73  | 78  |
| 11    | 61  | 70  | 64  | 57  | 58  | --- | 57  | 71  | 54  | 55  | 79  | 79  |
| 12    | 62  | 76  | 59  | 54  | 60  | --- | 58  | 70  | 50  | 62  | 78  | 76  |
| 13    | 66  | 74  | 58  | 57  | 58  | --- | 60  | 71  | 50  | 60  | 76  | 77  |
| 14    | 64  | 74  | 57  | 58  | 59  | --- | 61  | 74  | 50  | 60  | 76  | 75  |
| 15    | 66  | 65  | 58  | 60  | 61  | --- | 66  | 74  | 64  | 68  | 75  | 77  |
| 16    | 65  | 64  | 61  | 58  | 64  | --- | 63  | 75  | 54  | 65  | 76  | 77  |
| 17    | 66  | 63  | 59  | 58  | 63  | --- | 63  | 71  | 60  | 57  | 73  | 77  |
| 18    | 65  | 61  | 64  | 61  | 67  | 75  | 62  | 69  | 72  | 56  | 74  | 78  |
| 19    | 63  | 62  | 60  | 61  | 71  | 63  | 63  | 70  | 65  | 59  | 79  | 75  |
| 20    | 64  | 64  | 58  | 61  | 77  | 57  | 66  | 68  | 63  | 60  | 79  | 84  |
| 21    | 60  | 60  | 57  | 67  | 71  | 57  | 70  | 52  | 70  | 59  | 80  | 87  |
| 22    | 63  | 58  | 58  | 66  | 80  | 57  | 75  | 52  | 70  | 62  | 83  | 87  |
| 23    | 63  | 59  | 59  | 65  | 72  | 56  | 65  | 52  | 69  | 58  | 80  | 83  |
| 24    | 56  | 59  | 63  | 66  | 71  | 56  | 65  | 52  | 65  | 57  | 76  | 83  |
| 25    | 59  | 58  | 63  | 75  | 73  | 53  | 69  | 54  | 63  | 58  | 75  | 86  |
| 26    | 61  | 60  | 61  | 73  | 73  | 51  | 71  | 55  | 62  | 60  | 79  | 85  |
| 27    | 70  | 65  | 62  | 69  | 72  | 55  | 74  | 57  | 61  | 62  | 82  | 85  |
| 28    | 62  | 57  | 61  | 70  | 74  | 51  | 76  | 60  | 64  | 66  | 80  | 80  |
| 29    | 65  | 56  | 62  | 70  | 80  | 53  | 74  | 60  | 60  | 73  | 77  | 77  |
| 30    | 67  | 55  | 62  | 66  | --- | 53  | 73  | 62  | 61  | 73  | 103 | 80  |
| 31    | 59  | --- | 65  | 62  | --- | 53  | --- | 61  | --- | 70  | 76  | --- |
| MONTH | 64  | 63  | 59  | 63  | 66  | --- | 64  | 66  | 59  | 62  | 78  | 80  |

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
(ONCE-DAILY)

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1     | 21.0 | 17.0 | ---  | 11.0 | 10.0 | ---  | 15.0 | 19.0 | 21.0 | 24.0 | 26.0 | 25.0 |
| 2     | 21.0 | 17.0 | ---  | 11.0 | 10.0 | ---  | 17.0 | 19.0 | 21.0 | 24.0 | 26.0 | 25.0 |
| 3     | 19.0 | 19.0 | ---  | 12.0 | 10.0 | ---  | 15.0 | 19.0 | 21.0 | 24.0 | 25.0 | 25.0 |
| 4     | 20.0 | 19.0 | ---  | 11.0 | 11.0 | ---  | 16.0 | 18.0 | 20.0 | 23.0 | 25.0 | 25.0 |
| 5     | 20.0 | 19.0 | ---  | 10.0 | 10.0 | ---  | 16.0 | 19.0 | 20.0 | 24.0 | 25.0 | 25.0 |
| 6     | 19.0 | 19.0 | ---  | 10.0 | 11.0 | ---  | 16.0 | 19.0 | 19.0 | 24.0 | 25.0 | 25.0 |
| 7     | 20.0 | 20.0 | ---  | 10.0 | 10.0 | ---  | 16.0 | 20.0 | 19.0 | 23.0 | 25.0 | 25.0 |
| 8     | 20.0 | 21.0 | ---  | 11.0 | 10.0 | ---  | 15.0 | 20.0 | 20.0 | 24.0 | 25.0 | 25.0 |
| 9     | 20.0 | 21.0 | ---  | 9.0  | 11.0 | ---  | 15.0 | 19.0 | 20.0 | 24.0 | 26.0 | 25.0 |
| 10    | 19.0 | 21.0 | ---  | 9.0  | 11.0 | ---  | 15.0 | 19.0 | 20.0 | 23.0 | 26.0 | 24.0 |
| 11    | 22.0 | 21.0 | ---  | 9.0  | 11.0 | ---  | 15.0 | 20.0 | 20.0 | 23.0 | 25.0 | 23.0 |
| 12    | 22.0 | 22.0 | ---  | 10.0 | 11.0 | ---  | 15.0 | 20.0 | 21.0 | 24.0 | 25.0 | 23.0 |
| 13    | 20.0 | ---  | ---  | 12.0 | 11.0 | ---  | 15.0 | 21.0 | 21.0 | 25.0 | 26.0 | 23.0 |
| 14    | 20.0 | ---  | ---  | 12.0 | 11.0 | ---  | 15.0 | 21.0 | 21.0 | 25.0 | 26.0 | 23.0 |
| 15    | 20.0 | ---  | ---  | 11.0 | 12.0 | ---  | 15.0 | 22.0 | 21.0 | 24.0 | 26.0 | 23.0 |
| 16    | 20.0 | ---  | ---  | 11.0 | 12.0 | ---  | 15.0 | 22.0 | 21.0 | 24.0 | 26.0 | 23.0 |
| 17    | 23.0 | ---  | ---  | 10.0 | 12.0 | ---  | 16.0 | 22.0 | 22.0 | 24.0 | 26.0 | 22.0 |
| 18    | 20.0 | ---  | ---  | 8.0  | 12.0 | 12.0 | 17.0 | 22.0 | 23.0 | 24.0 | 26.0 | 22.0 |
| 19    | 20.0 | ---  | 12.0 | 7.0  | 12.0 | 12.0 | 17.0 | 22.0 | 23.0 | 25.0 | 26.0 | 21.0 |
| 20    | 16.0 | ---  | 11.0 | 8.0  | 15.0 | 13.0 | 17.0 | 20.0 | 23.0 | 25.0 | 26.0 | 21.0 |
| 21    | 18.0 | ---  | 10.0 | 8.0  | 15.0 | 14.0 | 17.0 | 20.0 | 23.0 | 25.0 | 26.0 | 21.0 |
| 22    | 18.0 | ---  | 10.0 | 10.0 | 16.0 | 14.0 | 18.0 | 18.0 | 23.0 | 24.0 | 25.0 | 22.0 |
| 23    | 19.0 | ---  | 10.0 | 10.0 | 14.0 | 14.0 | 19.0 | 19.0 | 24.0 | 24.0 | 25.0 | 21.0 |
| 24    | 19.0 | ---  | 10.0 | 10.0 | 12.0 | 14.0 | 20.0 | 20.0 | 23.0 | 24.0 | 25.0 | 22.0 |
| 25    | 20.0 | ---  | 10.0 | 9.0  | 13.0 | 14.0 | 20.0 | 20.0 | 23.0 | 25.0 | 26.0 | 23.0 |
| 26    | 20.0 | ---  | 10.0 | 10.0 | 13.0 | 15.0 | 20.0 | 20.0 | 23.0 | 25.0 | 25.0 | 24.0 |
| 27    | 20.0 | ---  | 10.0 | 10.0 | 14.0 | 15.0 | 20.0 | 20.0 | 24.0 | 25.0 | 25.0 | 24.0 |
| 28    | 20.0 | ---  | 10.0 | 10.0 | 13.0 | 15.0 | 19.0 | 20.0 | 24.0 | 25.0 | 25.0 | 24.0 |
| 29    | 20.0 | ---  | 10.0 | 10.0 | 14.0 | 15.0 | 19.0 | 20.0 | 24.0 | 25.0 | 25.0 | 24.0 |
| 30    | 20.0 | ---  | 11.0 | 10.0 | ---  | 15.0 | 19.0 | 20.0 | 24.0 | 26.0 | 25.0 | 24.0 |
| 31    | 18.0 | ---  | 11.0 | 9.0  | ---  | 16.0 | ---  | 20.0 | ---  | 26.0 | 25.0 | ---  |
| MONTH | 20.0 | ---  | ---  | 10.0 | 12.0 | ---  | 17.0 | 20.0 | 21.5 | 24.5 | 25.5 | 23.5 |

## LAKES AND RESERVOIRS IN SAVANNAH RIVER BASIN

02178500 LAKE BURTON.--Lat 34°47'37", long 83°32'26", Rabun County, 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 mi<sup>2</sup> (298 km<sup>2</sup>). 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 hm<sup>3</sup>), of which 106,000 acre-ft (131 hm<sup>3</sup>) is usable storage. Lake is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Co.

02179500 MATHIS RESERVOIR.--Lat 34°47'03", long 83°24'57", Rabun County, 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 mi<sup>2</sup> (391 km<sup>2</sup>). 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 hm<sup>3</sup>), of which 23,000 acre-ft (28.4 hm<sup>3</sup>) is usable storage. Reservoir is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Co.

02187250 HARTWELL LAKE.--Lat 34°21'25", long 82°49'20", Hart County (Ga.)-Anderson County (S.C.), Ga.-S.C. State line, in right spillway elevator tower of dam on Savannah River, 0.9 mi (1.4 km) upstream from Big Generostee Creek, 6.4 mi (10.3 km) east of Hartwell, Ga., and at mile 305.0 (490.7 km). DRAINAGE AREA, 2,088 mi<sup>2</sup> (5,408 km<sup>2</sup>). 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 hm<sup>3</sup>) 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 hm<sup>3</sup>). 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 hm<sup>3</sup>) Apr. 8, 1964, elevation, 665.47 ft (202.835 m); minimum, after first filling, 1,182,000 acre-ft (1,460 hm<sup>3</sup>) Oct. 16, 1961, elevation, 626.70 ft (191.018 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 2,787,400 acre-ft (3,440 hm<sup>3</sup>) May 31, elevation, 664.09 ft (202.415 m); minimum, 2,290,600 acre-ft (2,820 hm<sup>3</sup>) Dec. 24, elevation, 655.16 ft (199.693 m).

02194500 CLARK HILL LAKE.--Lat 33°39'40", long 82°12'00", Columbia County (Ga.)-McCormick County (S.C.), Ga.-S.C. State line, 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 mi<sup>2</sup> (15,900 km<sup>2</sup>), 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 hm<sup>3</sup>) 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 hm<sup>3</sup>). 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 hm<sup>3</sup>) Apr. 9, 1964, elevation, 336.72 ft (102.632 m); minimum, 897,900 acre-ft (1,110 hm<sup>3</sup>) Feb. 1, 1956, elevation, 296.48 ft (90.367 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 2,777,500 acre-ft (3,420 hm<sup>3</sup>) Mar. 19, elevation, 333.43 ft (101.629 m); minimum, 2,230,700 acre-ft (2,750 hm<sup>3</sup>) Dec. 29; elevation, 326.01 ft (99.368 m).

## MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| Date          | Elevation<br>(feet)† | Contents<br>(acre-feet) | Elevation<br>(feet)†      | Contents<br>(acre-feet) | Combined change in contents<br>(acre-feet) |
|---------------|----------------------|-------------------------|---------------------------|-------------------------|--------------------------------------------|
|               | 02178500 LAKE BURTON |                         | 02179500 MATHIS RESERVOIR |                         | BURTON AND MATHIS RESERVOIRS               |
| Sept. 30..... | 1860.8               | 92100                   | 1687.4                    | 29400                   | -                                          |
| Oct. 31.....  | 1859.7               | 89200                   | 1677.1                    | 22300                   | -10000                                     |
| Nov. 30.....  | 1857.0               | 82600                   | 1688.3                    | 30100                   | +1200                                      |
| Dec. 31.....  | 1850.3               | 67600                   | 1688.1                    | 30000                   | -15100                                     |
| CAL YR 1975   | -                    | -                       | -                         | -                       | -4600                                      |
| Jan. 31.....  | 1852.1               | 71400                   | 1686.4                    | 28700                   | +2500                                      |
| Feb. 29.....  | 1854.1               | 75800                   | 1686.1                    | 28500                   | +4200                                      |
| Mar. 31.....  | 1864.1               | 101000                  | 1688.5                    | 30300                   | +27000                                     |
| Apr. 30.....  | 1862.8               | 97300                   | 1688.5                    | 30300                   | -3700                                      |
| May 31.....   | 1866.2               | 107000                  | 1689.7                    | 31300                   | +10700                                     |
| June 30.....  | 1865.5               | 105000                  | 1688.7                    | 30500                   | -2800                                      |
| July 31.....  | 1863.9               | 100000                  | 1688.3                    | 30100                   | -5400                                      |
| Aug. 31.....  | 1862.4               | 96200                   | 1687.6                    | 29600                   | -4300                                      |
| Sept. 30..... | 1861.9               | 94900                   | 1688.7                    | 30500                   | -400                                       |
| WTR YR 1976   | -                    | -                       | -                         | -                       | +3900                                      |

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



## SAVANNAH RIVER BASIN

## LAKES AND RESERVOIRS IN SAVANNAH RIVER BASIN--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| Date                   | Elevation<br>(feet) | Contents<br>(acre-feet) | Change in<br>contents<br>(acre-feet) | Elevation<br>(feet)      | Contents<br>(acre-feet) | Change in<br>contents<br>(acre-feet) |
|------------------------|---------------------|-------------------------|--------------------------------------|--------------------------|-------------------------|--------------------------------------|
| 02187250 HARTWELL LAKE |                     |                         |                                      | 02194500 CLARK HILL LAKE |                         |                                      |
| Sept. 30.....          | 659.90              | 2544100                 | -                                    | 320.96                   | 2507200                 | -                                    |
| Oct. 31.....           | 659.18              | 2504700                 | -39400                               | 329.19                   | 2453300                 | -53900                               |
| Nov. 30.....           | 656.96              | 2384200                 | -120500                              | 328.24                   | 2386800                 | -66500                               |
| Dec. 31.....           | 655.63              | 2314800                 | -69400                               | 326.83                   | 2288100                 | -98700                               |
| CAL YR 1975            | -                   | -                       | -14400                               | -                        | -                       | +67200                               |
| Jan. 31.....           | 658.25              | 2453300                 | +138500                              | 327.90                   | 2363000                 | +74900                               |
| Feb. 29.....           | 658.93              | 2490400                 | +37100                               | 327.80                   | 2356000                 | -7000                                |
| Mar. 31.....           | 661.55              | 2637700                 | +147300                              | 329.88                   | 2501600                 | +145600                              |
| Apr. 30.....           | 660.07              | 2553600                 | -84100                               | 329.77                   | 2493900                 | -7700                                |
| May 31.....            | 663.98              | 2780700                 | +227100                              | 332.75                   | 2724500                 | +230600                              |
| June 30.....           | 661.71              | 2646900                 | -133800                              | 331.29                   | 2610600                 | -113900                              |
| July 31.....           | 659.34              | 2513000                 | -133900                              | 330.42                   | 2542800                 | -67800                               |
| Aug. 31.....           | 657.50              | 2413000                 | -100000                              | 329.15                   | 2450500                 | -92300                               |
| Sept. 30.....          | 656.26              | 2347400                 | -65600                               | 327.65                   | 2345500                 | -105000                              |
| WTR YR 1976            | -                   | -                       | -196700                              | -                        | -                       | -161700                              |

## OGEECHEE RIVER BASIN

59

02202000 OGEECHEE RIVER AT SCARBORO, GA.

LOCATION.--Lat 32°42'38", long 81°52'46", Jenkins County, 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 mi<sup>2</sup> (5,020 km<sup>2</sup>), 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, 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 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| DEC.<br>01... | 1610 | 942                                           | 6.9           | 11.0                        | --                                 |
| FEB.<br>02... | 1530 | 3410                                          | 6.6           | 7.5                         | 10.0                               |
| MAY<br>03...  | 1545 | 792                                           | 6.4           | 19.0                        | 7.9                                |
| AUG.<br>02... | 1500 | 512                                           | 6.4           | 27.0                        | 6.9                                |

| DATE          | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) |
|---------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| DEC.<br>01... | 21                                       | .04                                                  | .20                                                | .06                                       | 24                                 |
| FEB.<br>02... | 13                                       | .02                                                  | <.02                                               | .03                                       | 16                                 |
| MAY<br>03...  | 28                                       | .21                                                  | <.02                                               | .05                                       | 29                                 |
| AUG.<br>02... | 29                                       | .26                                                  | <.02                                               | .04                                       | 30                                 |

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| DEC.<br>01... | 62                                                         | 40                                           | 6                            | .4                                                           | 230                                              | --                                          |
| FEB.<br>02... | 51                                                         | 50                                           | 12                           | .8                                                           | 430                                              | 9.0                                         |
| MAY<br>03...  | 78                                                         | 50                                           | 9                            | .6                                                           | 1500                                             | 4.0                                         |
| AUG.<br>02... | 81                                                         | 40                                           | 12                           | --                                                           | --                                               | 5.0                                         |

## OGEECHEE RIVER BASIN

02202190 OGEECHEE RIVER NEAR OLIVER, GA.

LOCATION.--Lat 32°29'45", Long 81°33'11", Screven County, 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 mi<sup>2</sup> (5,780 km<sup>2</sup>), 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                               |               |                             |                                    |
| 06... | 1530 | 1310                                          | 6.8           | 19.0                        | 6.9                                |
| DEC.  |      |                                               |               |                             |                                    |
| 02... | 1230 | 1250                                          | 6.7           | 10.0                        | 6.7                                |
| JAN.  |      |                                               |               |                             |                                    |
| 05... | 1430 | 2320                                          | 5.9           | 6.0                         | 11.2                               |
| FEB.  |      |                                               |               |                             |                                    |
| 03... | 1245 | 4660                                          | 6.6           | 6.0                         | 10.0                               |
| MAR.  |      |                                               |               |                             |                                    |
| 08... | 1330 | 1860                                          | 6.4           | 16.0                        | 7.4                                |
| APR.  |      |                                               |               |                             |                                    |
| 05... | 1300 | 2380                                          | 6.3           | 16.0                        | 6.2                                |
| MAY   |      |                                               |               |                             |                                    |
| 04... | 0700 | 836                                           | 6.4           | 17.5                        | 7.4                                |
| JUNE  |      |                                               |               |                             |                                    |
| 07... | 1330 | 2320                                          | 6.2           | 18.5                        | 7.8                                |
| JULY  |      |                                               |               |                             |                                    |
| 06... | 1215 | 3000                                          | 6.2           | 22.0                        | 7.6                                |
| AUG.  |      |                                               |               |                             |                                    |
| 03... | 0945 | 563                                           | 6.4           | 26.0                        | 6.8                                |
| SEP.  |      |                                               |               |                             |                                    |
| 13... | 1230 | 400                                           | 6.4           | 22.0                        | 5.5                                |

| DATE  | ALKA-<br>LINITY<br>AS<br>CAC03<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) |
|-------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|
| DEC.  |                                          |                                                      |                                                    |                                           |                                     |
| 02... | 19                                       | .02                                                  | .16                                                | .05                                       | 20                                  |
| JAN.  |                                          |                                                      |                                                    |                                           |                                     |
| 05... | 12                                       | .04                                                  | --                                                 | .06                                       | 10                                  |
| FEB.  |                                          |                                                      |                                                    |                                           |                                     |
| 03... | 9                                        | <.02                                                 | .05                                                | .03                                       | 14                                  |
| MAR.  |                                          |                                                      |                                                    |                                           |                                     |
| 08... | 26                                       | .02                                                  | <.02                                               | .03                                       | 26                                  |
| APR.  |                                          |                                                      |                                                    |                                           |                                     |
| 05... | 22                                       | .06                                                  | .02                                                | .06                                       | 21                                  |
| MAY   |                                          |                                                      |                                                    |                                           |                                     |
| 04... | 25                                       | .25                                                  | .03                                                | .05                                       | 26                                  |
| JUNE  |                                          |                                                      |                                                    |                                           |                                     |
| 07... | 20                                       | .07                                                  | <.02                                               | .05                                       | 19                                  |
| JULY  |                                          |                                                      |                                                    |                                           |                                     |
| 06... | 17                                       | .07                                                  | .03                                                | .06                                       | 20                                  |
| AUG.  |                                          |                                                      |                                                    |                                           |                                     |
| 03... | 30                                       | .30                                                  | .03                                                | .06                                       | 30                                  |
| SEP.  |                                          |                                                      |                                                    |                                           |                                     |
| 13... | 35                                       | .16                                                  | <.02                                               | .04                                       | 32                                  |

OGEECHEE RIVER BASIN

61

02202190 OGEECHEE RIVER NEAR OLIVER, GA.--Continued

WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| DEC.<br>02... | 62                                                         | 20                                           | 7                            | .3                                                           | 36                                               | --                                          |
| JAN.<br>05... | 57                                                         | 40                                           | 8                            | .5                                                           | 91                                               | --                                          |
| FEB.<br>03... | 50                                                         | 60                                           | 9                            | .9                                                           | 430                                              | 8.0                                         |
| MAR.<br>08... | 80                                                         | 35                                           | 5                            | .4                                                           | 230                                              | 8.0                                         |
| APR.<br>05... | 66                                                         | 40                                           | 11                           | .6                                                           | 30                                               | 9.0                                         |
| MAY<br>04...  | 78                                                         | 50                                           | 8                            | .7                                                           | 430                                              | 5.0                                         |
| JUNE<br>07... | 62                                                         | 70                                           | 7                            | 1.0                                                          | 210                                              | 10                                          |
| JULY<br>06... | 58                                                         | 60                                           | 10                           | --                                                           | --                                               | 11                                          |
| AUG.<br>03... | 94                                                         | 40                                           | 9                            | .5                                                           | 36                                               | 7.0                                         |
| SEP.<br>13... | 104                                                        | 25                                           | 3                            | .8                                                           | 91                                               | 8.0                                         |

## OGEECHEE RIVER BASIN

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

LOCATION.--Lat 32°11'29", long 81°24'58", Effingham County, 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 mi<sup>2</sup> (6,860 km<sup>2</sup>), 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.--39 years, 2,386 ft<sup>3</sup>/s (67.6 m<sup>3</sup>/s), 12.23 in/yr (310.6 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,300 ft<sup>3</sup>/s (745 m<sup>3</sup>/s) Mar. 31, 1944, gage height, 14.7 ft (4.48 m); minimum observed, 131 ft<sup>3</sup>/s (3.71 m<sup>3</sup>/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 ft<sup>3</sup>/s (850 m<sup>3</sup>/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,230 ft<sup>3</sup>/s (205 m<sup>3</sup>/s) Mar. 29, gage height, 9.91 ft (3.02 m); minimum, 426 ft<sup>3</sup>/s (12.1 m<sup>3</sup>/s) Sept. 13.

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

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN    | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|
| 1     | 1430  | 1080  | 1420  | 1810  | 3730  | 2240  | 5000  | 842   | 4240   | 4220  | 656   | 457   |
| 2     | 1430  | 1070  | 1380  | 1910  | 3940  | 2200  | 4140  | 890   | 4010   | 4000  | 626   | 437   |
| 3     | 1420  | 1030  | 1300  | 2060  | 4200  | 2130  | 3520  | 952   | 3760   | 3560  | 739   | 472   |
| 4     | 1400  | 965   | 1210  | 2180  | 4590  | 2050  | 3090  | 953   | 3620   | 3360  | 803   | 493   |
| 5     | 1360  | 884   | 1130  | 2200  | 4900  | 1960  | 2790  | 933   | 3720   | 3200  | 727   | 517   |
| 6     | 1330  | 806   | 1080  | 2180  | 4930  | 1890  | 2550  | 917   | 3990   | 3120  | 714   | 495   |
| 7     | 1290  | 773   | 1050  | 2150  | 4760  | 1820  | 2370  | 911   | 3630   | 3220  | 732   | 477   |
| 8     | 1250  | 770   | 1030  | 2230  | 4510  | 1780  | 2180  | 918   | 3080   | 3440  | 759   | 469   |
| 9     | 1220  | 730   | 1030  | 2330  | 4300  | 1760  | 2020  | 946   | 2700   | 3570  | 886   | 464   |
| 10    | 1160  | 708   | 1030  | 2420  | 4140  | 1750  | 1900  | 957   | 2540   | 3460  | 901   | 453   |
| 11    | 1100  | 695   | 1030  | 2520  | 4050  | 1730  | 1800  | 966   | 2680   | 3410  | 739   | 449   |
| 12    | 1030  | 690   | 1040  | 2610  | 4010  | 1700  | 1720  | 982   | 3020   | 3380  | 625   | 440   |
| 13    | 962   | 703   | 1050  | 2730  | 3900  | 1660  | 1650  | 997   | 3260   | 3370  | 584   | 429   |
| 14    | 925   | 700   | 1070  | 2940  | 3670  | 1640  | 1590  | 998   | 3130   | 3440  | 577   | 697   |
| 15    | 927   | 718   | 1090  | 3340  | 3400  | 1710  | 1520  | 999   | 2780   | 3180  | 573   | 1080  |
| 16    | 960   | 758   | 1120  | 3900  | 3150  | 1830  | 1450  | 1030  | 2460   | 2890  | 552   | 1200  |
| 17    | 1000  | 812   | 1160  | 4390  | 2950  | 1990  | 1380  | 1090  | 2400   | 2560  | 592   | 1250  |
| 18    | 1030  | 875   | 1250  | 4490  | 2800  | 2140  | 1310  | 1150  | 2380   | 2340  | 574   | 1220  |
| 19    | 1040  | 947   | 1270  | 4250  | 2670  | 2300  | 1230  | 1220  | 2290   | 2230  | 582   | 1150  |
| 20    | 1030  | 1030  | 1280  | 3850  | 2520  | 2420  | 1160  | 1280  | 2510   | 2340  | 544   | 1080  |
| 21    | 1030  | 1120  | 1300  | 3500  | 2400  | 2600  | 1100  | 1300  | 2670   | 2570  | 532   | 1010  |
| 22    | 1030  | 1210  | 1300  | 3280  | 2290  | 2840  | 1050  | 1310  | 2830   | 2670  | 542   | 959   |
| 23    | 1050  | 1290  | 1310  | 3120  | 2230  | 3080  | 1000  | 1410  | 3630   | 2530  | 564   | 906   |
| 24    | 1080  | 1330  | 1330  | 3030  | 2200  | 3320  | 957   | 1820  | 4640   | 2230  | 576   | 865   |
| 25    | 1120  | 1330  | 1350  | 2940  | 2210  | 3600  | 910   | 2260  | 5700   | 1850  | 567   | 838   |
| 26    | 1140  | 1320  | 1430  | 2810  | 2240  | 3940  | 872   | 2600  | 6490   | 1530  | 539   | 819   |
| 27    | 1140  | 1320  | 1500  | 2920  | 2270  | 4490  | 844   | 2830  | 6510   | 1310  | 510   | 786   |
| 28    | 1110  | 1340  | 1550  | 3130  | 2270  | 5710  | 824   | 3050  | 5760   | 1110  | 489   | 729   |
| 29    | 1090  | 1380  | 1610  | 3180  | 2260  | 7010  | 793   | 3630  | 4940   | 908   | 472   | 684   |
| 30    | 1080  | 1410  | 1660  | 3420  | ---   | 6980  | 809   | 4140  | 4440   | 766   | 462   | 730   |
| 31    | 1070  | ---   | 1740  | 3620  | ---   | 6050  | ---   | 4340  | ---    | 694   | 471   | ---   |
| TOTAL | 35234 | 29794 | 39100 | 91440 | 97490 | 88320 | 53529 | 48621 | 109810 | 82458 | 19209 | 22055 |
| MEAN  | 1137  | 993   | 1261  | 2950  | 3362  | 2849  | 1784  | 1568  | 3660   | 2660  | 620   | 735   |
| MAX   | 1430  | 1410  | 1740  | 4490  | 4930  | 7010  | 5000  | 4340  | 6510   | 4220  | 901   | 1250  |
| MIN   | 925   | 690   | 1030  | 1810  | 2200  | 1640  | 793   | 842   | 2290   | 694   | 462   | 429   |
| CFSM  | .43   | .37   | .48   | 1.11  | 1.27  | 1.08  | .67   | .59   | 1.38   | 1.00  | .23   | .28   |
| IN.   | .49   | .42   | .55   | 1.28  | 1.37  | 1.24  | .75   | .68   | 1.54   | 1.16  | .27   | .31   |

CAL YR 1975 TOTAL 1328465 MEAN 3640 MAX 17000 MIN 640 CFSM 1.37 IN 18.65  
WTR YR 1976 TOTAL 717060 MEAN 1959 MAX 7010 MIN 429 CFSM .74 IN 10.07



## 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 September 1976.

WATER TEMPERATURES: October 1972 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 131 micromhos Sept. 12, 1976; minimum, 28 micromhos Mar. 29, 30, 1976.

WATER TEMPERATURES: Maximum, 29.5°C July 30, 31, Aug. 1, 2, 1976; minimum, 4.5°C Feb. 12-14, 1973, Jan. 20-23, 1976.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 131 micromhos Sept. 12; minimum, 28 micromhos Mar. 29, 30.

WATER TEMPERATURES: Maximum, 29.5°C July 30, 31, Aug. 1, 2; minimum, 4.5°C Jan. 20-23.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT   |      |                                               |                                                            |               |                             |                                    |
| 21... | 1430 | 1020                                          | 82                                                         | --            | 17.0                        | 9.1                                |
| DEC   |      |                                               |                                                            |               |                             |                                    |
| 09... | 1215 | 1030                                          | 73                                                         | 6.8           | 12.0                        | 8.3                                |
| 30... | 1130 | 1660                                          | 72                                                         | --            | 8.5                         | 7.7                                |
| FEB   |      |                                               |                                                            |               |                             |                                    |
| 04... | 0945 | 4540                                          | 50                                                         | 6.1           | 9.0                         | 8.5                                |
| 24... | 1430 | 2200                                          | 53                                                         | 6.6           | 15.0                        | 7.0                                |
| APR   |      |                                               |                                                            |               |                             |                                    |
| 07... | 0900 | 2390                                          | 56                                                         | 6.9           | 18.0                        | 5.9                                |
| 28... | 1000 | 827                                           | 77                                                         | 6.6           | 20.0                        | 6.1                                |
| MAY   |      |                                               |                                                            |               |                             |                                    |
| 19... | 0945 | 1210                                          | 66                                                         | 6.1           | 20.0                        | 5.3                                |
| JUN   |      |                                               |                                                            |               |                             |                                    |
| 08... | 0855 | 3140                                          | 43                                                         | 6.1           | 20.0                        | 7.2                                |
| JUL   |      |                                               |                                                            |               |                             |                                    |
| 05... | 1435 | 3170                                          | 50                                                         | 5.9           | 23.5                        | 5.1                                |
| AUG   |      |                                               |                                                            |               |                             |                                    |
| 11... | 1610 | 715                                           | 80                                                         | 6.6           | 27.0                        | 4.5                                |
| 31... | 0945 | 472                                           | 95                                                         | 6.3           | 25.0                        | 5.5                                |

| DATE  | DIS-<br>SOLVED<br>SILICA<br>(SIO2)<br>(MG/L) | TOTAL<br>IRON<br>(FE)<br>(UG/L) | DIS-<br>SOLVED<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) |
|-------|----------------------------------------------|---------------------------------|------------------------------------------|-------------------------------------------|----------------------------------------------------|--------------------------------------------------|---------------------------------------------------------|--------------------------------------------|--------------------------------------------------------|
| OCT   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |                                                        |
| 21... | --                                           | 1100                            | 90                                       | 40                                        | 30                                                 | --                                               | --                                                      | --                                         | --                                                     |
| DEC   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |                                                        |
| 09... | --                                           | --                              | 550                                      | --                                        | 10                                                 | --                                               | --                                                      | --                                         | --                                                     |
| 30... | 11                                           | --                              | --                                       | --                                        | --                                                 | 5.0                                              | .6                                                      | 3.8                                        | 1.0                                                    |
| FEB   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |                                                        |
| 04... | --                                           | 1100                            | 250                                      | 10                                        | 10                                                 | --                                               | --                                                      | --                                         | --                                                     |
| 24... | 4.0                                          | --                              | --                                       | --                                        | --                                                 | 6.3                                              | .9                                                      | 4.6                                        | 1.0                                                    |
| APR   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |                                                        |
| 07... | --                                           | 1400                            | 500                                      | 40                                        | 30                                                 | --                                               | --                                                      | --                                         | --                                                     |
| 28... | 9.9                                          | --                              | --                                       | --                                        | --                                                 | 9.3                                              | .7                                                      | 5.5                                        | 1.0                                                    |
| MAY   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |                                                        |
| 19... | 10                                           | --                              | --                                       | --                                        | --                                                 | 7.0                                              | .9                                                      | 5.0                                        | .9                                                     |
| JUN   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |                                                        |
| 08... | 10                                           | --                              | --                                       | --                                        | --                                                 | 5.6                                              | .6                                                      | 3.7                                        | .7                                                     |
| JUL   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |                                                        |
| 05... | --                                           | 1700                            | 540                                      | 50                                        | 40                                                 | --                                               | --                                                      | --                                         | --                                                     |
| AUG   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |                                                        |
| 11... | 13                                           | --                              | --                                       | --                                        | --                                                 | 8.4                                              | 1.0                                                     | 6.7                                        | 1.1                                                    |
| 31... | 12                                           | --                              | --                                       | --                                        | --                                                 | 10                                               | .9                                                      | 8.5                                        | 1.2                                                    |

## OGEECHEE RIVER BASIN

02202500 OGEECHEE RIVER NEAR EDEN, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | BICARBONATE<br>(HCO3)<br>(MG/L) | CARBONATE<br>(CO3)<br>(MG/L) | ALKALINITY<br>AS<br>CACO3<br>(MG/L) | CARBON<br>DIOXIDE<br>(CO2)<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLORIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUORIDE<br>(F)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|-------|---------------------------------|------------------------------|-------------------------------------|--------------------------------------|----------------------------------------------|----------------------------------------------|---------------------------------------------|------------------------------------------------------|----------------------------------------------------------|
| OCT   |                                 |                              |                                     |                                      |                                              |                                              |                                             |                                                      |                                                          |
| 21... | --                              | --                           | --                                  | --                                   | --                                           | --                                           | --                                          | .05                                                  | .26                                                      |
| DEC   |                                 |                              |                                     |                                      |                                              |                                              |                                             |                                                      |                                                          |
| 09... | --                              | --                           | --                                  | --                                   | --                                           | --                                           | --                                          | .02                                                  | .21                                                      |
| 30... | 22                              | --                           | 18                                  | --                                   | 3.6                                          | 4.8                                          | .1                                          | .00                                                  | .19                                                      |
| FEB   |                                 |                              |                                     |                                      |                                              |                                              |                                             |                                                      |                                                          |
| 04... | --                              | --                           | --                                  | --                                   | --                                           | --                                           | --                                          | .01                                                  | --                                                       |
| 24... | 21                              | 0                            | 17                                  | 8.4                                  | 3.8                                          | 5.4                                          | .1                                          | .00                                                  | .39                                                      |
| APR   |                                 |                              |                                     |                                      |                                              |                                              |                                             |                                                      |                                                          |
| 07... | --                              | --                           | --                                  | --                                   | --                                           | --                                           | --                                          | .04                                                  | .41                                                      |
| 28... | 32                              | 0                            | 26                                  | 13                                   | 4.7                                          | 5.0                                          | .1                                          | .18                                                  | .24                                                      |
| MAY   |                                 |                              |                                     |                                      |                                              |                                              |                                             |                                                      |                                                          |
| 19... | 20                              | 0                            | 16                                  | 25                                   | 4.8                                          | 4.3                                          | .2                                          | .15                                                  | .32                                                      |
| JUN   |                                 |                              |                                     |                                      |                                              |                                              |                                             |                                                      |                                                          |
| 08... | 15                              | 0                            | 12                                  | 19                                   | 4.5                                          | 5.1                                          | .2                                          | .04                                                  | .52                                                      |
| JUL   |                                 |                              |                                     |                                      |                                              |                                              |                                             |                                                      |                                                          |
| 05... | --                              | --                           | --                                  | --                                   | --                                           | --                                           | --                                          | .06                                                  | .75                                                      |
| AUG   |                                 |                              |                                     |                                      |                                              |                                              |                                             |                                                      |                                                          |
| 11... | 30                              | 0                            | 25                                  | 12                                   | 7.2                                          | 5.1                                          | .1                                          | .14                                                  | .41                                                      |
| 31... | 41                              | 0                            | 34                                  | 33                                   | 6.6                                          | 4.7                                          | .5                                          | .18                                                  | .29                                                      |

| DATE  | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | TUR-<br>BID-<br>ITY<br>(JTU) | TOTAL<br>PHYTO-<br>PLANK-<br>TON<br>(CELLS<br>PER<br>ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|-------|-----------------------------------------|-------------------------------------------|-------------------------------------------|------------------------------------------------------------------|------------------------------------|---------------------------------------------------|------------------------------|----------------------------------------------------------|---------------------------------------------|
| OCT   |                                         |                                           |                                           |                                                                  |                                    |                                                   |                              |                                                          |                                             |
| 21... | .31                                     | 1.4                                       | .05                                       | --                                                               | --                                 | --                                                | --                           | --                                                       | 9.0                                         |
| DEC   |                                         |                                           |                                           |                                                                  |                                    |                                                   |                              |                                                          |                                             |
| 09... | .23                                     | 1.0                                       | .04                                       | --                                                               | --                                 | --                                                | --                           | 56                                                       | --                                          |
| 30... | .19                                     | .84                                       | .03                                       | 63                                                               | 15                                 | 0                                                 | 4                            | 14                                                       | --                                          |
| FEB   |                                         |                                           |                                           |                                                                  |                                    |                                                   |                              |                                                          |                                             |
| 04... | --                                      | --                                        | .03                                       | --                                                               | --                                 | --                                                | --                           | 49                                                       | 8.8                                         |
| 24... | .39                                     | 1.7                                       | .01                                       | 46                                                               | 19                                 | 2                                                 | 4                            | 180                                                      | --                                          |
| APR   |                                         |                                           |                                           |                                                                  |                                    |                                                   |                              |                                                          |                                             |
| 07... | .45                                     | 2.0                                       | .06                                       | --                                                               | --                                 | --                                                | --                           | 290                                                      | 7.1                                         |
| 28... | .42                                     | 1.9                                       | .05                                       | 62                                                               | 26                                 | 0                                                 | 5                            | 150                                                      | --                                          |
| MAY   |                                         |                                           |                                           |                                                                  |                                    |                                                   |                              |                                                          |                                             |
| 19... | .47                                     | 2.1                                       | .04                                       | 59                                                               | 21                                 | 5                                                 | 4                            | 140                                                      | --                                          |
| JUN   |                                         |                                           |                                           |                                                                  |                                    |                                                   |                              |                                                          |                                             |
| 08... | .56                                     | 2.5                                       | .05                                       | 68                                                               | 16                                 | 4                                                 | 5                            | 64                                                       | --                                          |
| JUL   |                                         |                                           |                                           |                                                                  |                                    |                                                   |                              |                                                          |                                             |
| 05... | .81                                     | 3.6                                       | .03                                       | --                                                               | --                                 | --                                                | --                           | 140                                                      | 7.2                                         |
| AUG   |                                         |                                           |                                           |                                                                  |                                    |                                                   |                              |                                                          |                                             |
| 11... | .55                                     | 2.4                                       | .04                                       | 75                                                               | 25                                 | 0                                                 | 4                            | 250                                                      | --                                          |
| 31... | .47                                     | 2.1                                       | .04                                       | 68                                                               | 29                                 | 0                                                 | 3                            | 110                                                      | --                                          |

02202500 OGEECHEE RIVER NEAR EDEN, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | TOTAL<br>ARSENIC<br>(AS)<br>(UG/L) | DIS-<br>SOLVED<br>ARSENIC<br>(AS)<br>(UG/L) | TOTAL<br>CAD-<br>MIUM<br>(CD)<br>(UG/L) | DIS-<br>SOLVED<br>CAD-<br>MIUM<br>(CD)<br>(UG/L) | TOTAL<br>CHRO-<br>MIUM<br>(CR)<br>(UG/L) | DIS-<br>SOLVED<br>CHRO-<br>MIUM<br>(CR)<br>(UG/L) | TOTAL<br>COBALT<br>(CO)<br>(UG/L) | DIS-<br>SOLVED<br>COBALT<br>(CO)<br>(UG/L) | TOTAL<br>COPPER<br>(CU)<br>(UG/L) |
|--------------|------------------------------------|---------------------------------------------|-----------------------------------------|--------------------------------------------------|------------------------------------------|---------------------------------------------------|-----------------------------------|--------------------------------------------|-----------------------------------|
| OCT<br>21... | 0                                  | 0                                           | 5                                       | 0                                                | <10                                      | 0                                                 | 0                                 | 0                                          | 15                                |
| DEC<br>09... | --                                 | 0                                           | --                                      | --                                               | --                                       | --                                                | --                                | --                                         | --                                |
| FEB<br>04... | --                                 | 0                                           | 1                                       | 1                                                | 50                                       | 0                                                 | 0                                 | 0                                          | 6                                 |
| APR<br>07... | --                                 | 0                                           | 4                                       | 0                                                | 10                                       | 1                                                 | 0                                 | 0                                          | 4                                 |
| JUL<br>05... | --                                 | 0                                           | 7                                       | 1                                                | 20                                       | 0                                                 | 0                                 | 0                                          | 7                                 |

| DATE         | DIS-<br>SOLVED<br>COPPER<br>(CU)<br>(UG/L) | TOTAL<br>LEAD<br>(PB)<br>(UG/L) | DIS-<br>SOLVED<br>LEAD<br>(PB)<br>(UG/L) | TOTAL<br>MERCURY<br>(HG)<br>(UG/L) | DIS-<br>SOLVED<br>MERCURY<br>(HG)<br>(UG/L) | TOTAL<br>SELE-<br>NIUM<br>(SE)<br>(UG/L) | DIS-<br>SOLVED<br>SELE-<br>NIUM<br>(SE)<br>(UG/L) | TOTAL<br>ZINC<br>(ZN)<br>(UG/L) | DIS-<br>SOLVED<br>ZINC<br>(ZN)<br>(UG/L) |
|--------------|--------------------------------------------|---------------------------------|------------------------------------------|------------------------------------|---------------------------------------------|------------------------------------------|---------------------------------------------------|---------------------------------|------------------------------------------|
| OCT<br>21... | 0                                          | 14                              | 0                                        | .0                                 | .0                                          | --                                       | 0                                                 | 60                              | 40                                       |
| DEC<br>09... | --                                         | --                              | --                                       | --                                 | .3                                          | --                                       | --                                                | --                              | 7                                        |
| FEB<br>04... | 0                                          | 7                               | 4                                        | .1                                 | .0                                          | 0                                        | 0                                                 | 70                              | 0                                        |
| APR<br>07... | 4                                          | 44                              | 14                                       | .0                                 | .0                                          | 0                                        | 0                                                 | 20                              | 0                                        |
| JUL<br>05... | 3                                          | 12                              | 4                                        | .2                                 | .0                                          | 1                                        | 1                                                 | 20                              | 30                                       |

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH     |     |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-----------|-----|
|       | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | 61      | 60  | 66       | 64  | 59       | 57  | 73      | 72  | 53       | 53  | 61        | 59  |
| 2     | 62      | 61  | 68       | 65  | 62       | 59  | 74      | 73  | 52       | 51  | 61        | 60  |
| 3     | 62      | 61  | 71       | 68  | 64       | 62  | 75      | 74  | 51       | 50  | 62        | 61  |
| 4     | 62      | 61  | 77       | 71  | 65       | 63  | 76      | 75  | 49       | 48  | 64        | 62  |
| 5     | 62      | 61  | 81       | 77  | 67       | 65  | 77      | 77  | 48       | 47  | 64        | 63  |
| 6     | 62      | 61  | 81       | 79  | 70       | 67  | 78      | 78  | 48       | 46  | 66        | 64  |
| 7     | 63      | 62  | 82       | 79  | 72       | 69  | 79      | 78  | 47       | 46  | 68        | 66  |
| 8     | 65      | 63  | 83       | 80  | 74       | 71  | 79      | 77  | 47       | 46  | 69        | 68  |
| 9     | 68      | 65  | 85       | 82  | 74       | 73  | 79      | 78  | 46       | 46  | 70        | 69  |
| 10    | 71      | 69  | 86       | 84  | 75       | 73  | 80      | 78  | 46       | 44  | 71        | 67  |
| 11    | 75      | 71  | 88       | 85  | 76       | 73  | 79      | 77  | 45       | 43  | 68        | 66  |
| 12    | 78      | 75  | 89       | 85  | 75       | 72  | 78      | 76  | 44       | 43  | 67        | 66  |
| 13    | 78      | 76  | 92       | 86  | 76       | 72  | 77      | 76  | 43       | 41  | 68        | 66  |
| 14    | 78      | 76  | 95       | 89  | 75       | 73  | 77      | 75  | 43       | 41  | 69        | 68  |
| 15    | 77      | 73  | 97       | 89  | 75       | 71  | 77      | 75  | 44       | 42  | 68        | 66  |
| 16    | 73      | 71  | 96       | 89  | 75       | 73  | 73      | 71  | 44       | 43  | 66        | 63  |
| 17    | 72      | 68  | 89       | 83  | 76       | 75  | 69      | 68  | 45       | 43  | 63        | 61  |
| 18    | 70      | 68  | 82       | 76  | 77       | 74  | 67      | 66  | 47       | 44  | 61        | 58  |
| 19    | 71      | 69  | 76       | 71  | 78       | 77  | 65      | 65  | 50       | 45  | 58        | 56  |
| 20    | 71      | 70  | 70       | 65  | 78       | 76  | 64      | 63  | 51       | 49  | 56        | 54  |
| 21    | 72      | 70  | 65       | 63  | 78       | 76  | 63      | 62  | 52       | 50  | 54        | 52  |
| 22    | 71      | 68  | 63       | 62  | 77       | 77  | 62      | 62  | 54       | 52  | 53        | 51  |
| 23    | 68      | 66  | 62       | 61  | 78       | 77  | 61      | 60  | 56       | 55  | 51        | 49  |
| 24    | 66      | 64  | 61       | 59  | 79       | 77  | 60      | 59  | 58       | 56  | 50        | 47  |
| 25    | 64      | 63  | 60       | 59  | 80       | 79  | 60      | 59  | 59       | 57  | 47        | 45  |
| 26    | 65      | 63  | 60       | 59  | 80       | 79  | 60      | 59  | 59       | 58  | 45        | 42  |
| 27    | 67      | 65  | 59       | 58  | 80       | 78  | 59      | 57  | 60       | 58  | 42        | 37  |
| 28    | 67      | 66  | 59       | 57  | 79       | 77  | 58      | 56  | 60       | 59  | 37        | 31  |
| 29    | 68      | 67  | 58       | 57  | 77       | 74  | 57      | 57  | 61       | 59  | 31        | 28  |
| 30    | 68      | 67  | 57       | 56  | 74       | 71  | 56      | 54  | ---      | --- | 29        | 28  |
| 31    | 67      | 64  | ---      | --- | 72       | 71  | 54      | 53  | ---      | --- | 33        | 29  |
| MONTH | 78      | 60  | 97       | 56  | 80       | 57  | 80      | 53  | 61       | 41  | 71        | 28  |
| DAY   | APRIL   |     | MAY      |     | JUNE     |     | JULY    |     | AUGUST   |     | SEPTEMBER |     |
|       | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | 37      | 33  | 82       | 72  | 44       | 42  | 42      | 42  | 99       | 95  | 120       | 88  |
| 2     | 40      | 37  | 83       | 74  | 45       | 43  | 45      | 43  | 103      | 98  | 118       | 92  |
| 3     | 44      | 41  | 81       | 75  | 45       | 44  | 46      | 45  | 103      | 89  | 116       | 91  |
| 4     | 48      | 45  | 83       | 74  | 48       | 45  | 46      | 45  | 92       | 90  | 117       | 100 |
| 5     | 52      | 48  | 87       | 72  | 48       | 46  | 46      | 45  | 93       | 89  | 108       | 92  |
| 6     | 55      | 52  | 89       | 75  | 46       | 43  | 47      | 45  | 94       | 89  | 106       | 94  |
| 7     | 58      | 55  | 88       | 78  | 47       | 44  | 46      | 45  | 95       | 91  | 106       | 98  |
| 8     | 60      | 58  | 91       | 72  | 49       | 47  | 45      | 44  | 94       | 86  | 109       | 101 |
| 9     | 62      | 60  | 93       | 73  | 51       | 49  | 46      | 44  | 85       | 77  | 105       | 95  |
| 10    | 63      | 62  | 96       | 79  | 52       | 51  | 46      | 45  | 85       | 73  | 106       | 90  |
| 11    | 64      | 62  | 86       | 77  | 51       | 48  | 47      | 45  | 96       | 79  | 119       | 92  |
| 12    | 65      | 63  | 94       | 77  | 48       | 44  | 48      | 46  | 89       | 86  | 131       | 98  |
| 13    | 70      | 65  | 96       | 72  | 44       | 43  | 50      | 47  | 93       | 89  | 122       | 108 |
| 14    | 70      | 68  | 83       | 66  | 48       | 45  | ---     | --- | 100      | 93  | 116       | 70  |
| 15    | 71      | 69  | 77       | 72  | 52       | 48  | ---     | --- | 102      | 93  | 70        | 63  |
| 16    | 72      | 70  | 83       | 71  | 55       | 52  | ---     | --- | 104      | 90  | 64        | 58  |
| 17    | 73      | 71  | 82       | 75  | 55       | 47  | ---     | --- | 97       | 87  | 67        | 58  |
| 18    | 74      | 73  | 78       | 74  | 53       | 48  | ---     | --- | 109      | 87  | 67        | 65  |
| 19    | 75      | 73  | 77       | 62  | 53       | 49  | ---     | --- | 106      | 93  | 69        | 66  |
| 20    | 75      | 73  | 70       | 65  | 49       | 45  | 61      | 58  | 99       | 84  | 77        | 70  |
| 21    | 75      | 72  | 70       | 64  | 46       | 45  | 58      | 55  | 107      | 96  | 82        | 77  |
| 22    | 74      | 72  | 69       | 68  | 45       | 42  | 56      | 55  | 107      | 96  | 83        | 82  |
| 23    | 73      | 71  | 70       | 63  | 42       | 38  | 61      | 56  | 113      | 91  | 82        | 80  |
| 24    | 73      | 70  | 62       | 57  | 38       | 34  | 66      | 60  | 110      | 92  | 84        | 81  |
| 25    | 76      | 73  | 57       | 52  | 35       | 30  | 73      | 65  | 113      | 99  | 83        | 82  |
| 26    | 78      | 76  | 52       | 49  | 31       | 29  | 78      | 73  | 110      | 100 | 83        | 80  |
| 27    | 80      | 74  | 49       | 48  | 33       | 30  | 80      | 77  | 110      | 100 | 84        | 79  |
| 28    | 81      | 74  | 48       | 45  | 37       | 32  | 82      | 79  | 117      | 95  | 88        | 84  |
| 29    | 85      | 73  | 45       | 43  | 40       | 37  | 87      | 82  | 115      | 93  | 90        | 86  |
| 30    | 82      | 78  | 46       | 42  | 41       | 40  | 93      | 87  | 122      | 93  | 86        | 81  |
| 31    | ---     | --- | 43       | 42  | ---      | --- | 96      | 93  | 116      | 91  | ---       | --- |
| MONTH | 85      | 33  | 96       | 42  | 55       | 29  | 96      | 42  | 122      | 73  | 131       | 58  |

02202500 OGEECHEE RIVER NEAR EDEN, GA.--Continued

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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



## OGEECHEE RIVER BASIN

02203000 CANOOCHEE RIVER NEAR CLAXTON, GA.

LOCATION.--Lat 32°11'05", long 81°53'20", Evans County, 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 mi<sup>2</sup> (1,440 km<sup>2</sup>), 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.

AVERAGE DISCHARGE.--39 years, 468 ft<sup>3</sup>/s (13.3 m<sup>3</sup>/s), 11.45 in/yr (290.8 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft<sup>3</sup>/s (357 m<sup>3</sup>/s) May 26, 1966, gage height, 16.58 ft (5.054 m); minimum observed discharge, 0.86 ft<sup>3</sup>/s (0.024 m<sup>3</sup>/s) Sept. 8-14, Oct. 25, 26, Nov. 2, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,100 ft<sup>3</sup>/s (87.8 m<sup>3</sup>/s) June 23, gage height, 11.57 ft (3.527 m); minimum, 9.8 ft<sup>3</sup>/s (0.278 m<sup>3</sup>/s) Apr. 29, 30.

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

| DAY         | OCT   | NOV    | DEC  | JAN   | FEB   | MAR   | APR  | MAY   | JUN   | JUL   | AUG  | SEP   |
|-------------|-------|--------|------|-------|-------|-------|------|-------|-------|-------|------|-------|
| 1           | 237   | 58     | 57   | 481   | 1430  | 429   | 189  | 18    | 1680  | 645   | 67   | 30    |
| 2           | 228   | 52     | 56   | 511   | 1570  | 373   | 188  | 30    | 1330  | 640   | 60   | 25    |
| 3           | 196   | 48     | 55   | 539   | 1690  | 307   | 180  | 35    | 933   | 637   | 63   | 22    |
| 4           | 170   | 48     | 55   | 577   | 1660  | 263   | 172  | 46    | 688   | 570   | 95   | 21    |
| 5           | 157   | 48     | 54   | 561   | 1520  | 245   | 158  | 70    | 548   | 482   | 105  | 21    |
| 6           | 139   | 45     | 56   | 552   | 1330  | 222   | 144  | 70    | 407   | 541   | 83   | 24    |
| 7           | 122   | 43     | 57   | 537   | 1110  | 202   | 132  | 60    | 277   | 796   | 69   | 23    |
| 8           | 117   | 41     | 58   | 566   | 968   | 186   | 118  | 52    | 199   | 897   | 222  | 21    |
| 9           | 149   | 41     | 59   | 615   | 893   | 184   | 106  | 50    | 156   | 854   | 180  | 21    |
| 10          | 146   | 44     | 61   | 594   | 813   | 186   | 95   | 52    | 128   | 692   | 110  | 27    |
| 11          | 142   | 46     | 61   | 583   | 712   | 180   | 85   | 44    | 108   | 545   | 77   | 31    |
| 12          | 160   | 84     | 61   | 602   | 626   | 174   | 77   | 36    | 125   | 430   | 92   | 23    |
| 13          | 228   | 89     | 68   | 612   | 576   | 170   | 69   | 31    | 126   | 350   | 82   | 17    |
| 14          | 309   | 80     | 85   | 646   | 539   | 184   | 60   | 30    | 103   | 288   | 79   | 35    |
| 15          | 278   | 76     | 97   | 702   | 505   | 363   | 53   | 37    | 90    | 233   | 65   | 129   |
| 16          | 253   | 88     | 105  | 680   | 477   | 567   | 47   | 112   | 142   | 178   | 66   | 139   |
| 17          | 204   | 121    | 111  | 598   | 443   | 768   | 42   | 150   | 747   | 128   | 90   | 177   |
| 18          | 190   | 129    | 123  | 503   | 397   | 869   | 38   | 207   | 886   | 115   | 108  | 219   |
| 19          | 155   | 124    | 124  | 430   | 373   | 910   | 33   | 289   | 779   | 147   | 89   | 194   |
| 20          | 130   | 119    | 118  | 359   | 365   | 903   | 29   | 273   | 941   | 172   | 65   | 155   |
| 21          | 135   | 119    | 118  | 309   | 345   | 849   | 25   | 288   | 1220  | 146   | 53   | 141   |
| 22          | 140   | 112    | 122  | 298   | 369   | 767   | 22   | 301   | 1900  | 114   | 47   | 147   |
| 23          | 150   | 101    | 121  | 289   | 483   | 688   | 19   | 355   | 2960  | 89    | 44   | 109   |
| 24          | 158   | 91     | 123  | 274   | 488   | 607   | 16   | 597   | 2490  | 71    | 38   | 80    |
| 25          | 143   | 81     | 129  | 250   | 500   | 517   | 14   | 1120  | 1920  | 57    | 33   | 62    |
| 26          | 126   | 72     | 155  | 235   | 521   | 413   | 13   | 1590  | 1640  | 82    | 34   | 84    |
| 27          | 113   | 66     | 180  | 530   | 545   | 343   | 12   | 1650  | 1490  | 126   | 57   | 78    |
| 28          | 101   | 61     | 166  | 917   | 517   | 301   | 11   | 1800  | 1140  | 110   | 63   | 58    |
| 29          | 91    | 58     | 169  | 997   | 475   | 268   | 10   | 1980  | 748   | 89    | 43   | 73    |
| 30          | 79    | 57     | 193  | 1140  | ---   | 226   | 13   | 1940  | 663   | 67    | 31   | 142   |
| 31          | 68    | ---    | 303  | 1330  | ---   | 194   | ---  | 1840  | ---   | 60    | 26   | ---   |
| TOTAL       | 5014  | 2242   | 3300 | 17817 | 22240 | 12858 | 2170 | 15153 | 26564 | 10351 | 2336 | 2328  |
| MEAN        | 162   | 74.7   | 106  | 575   | 767   | 415   | 72.3 | 489   | 885   | 334   | 75.4 | 77.6  |
| MAX         | 309   | 129    | 303  | 1330  | 1690  | 910   | 189  | 1980  | 2960  | 897   | 222  | 219   |
| MIN         | 68    | 41     | 54   | 235   | 345   | 170   | 10   | 18    | 90    | 57    | 26   | 17    |
| CFSM        | .29   | .13    | .19  | 1.04  | 1.38  | .75   | .13  | .88   | 1.59  | .60   | .14  | .14   |
| IN.         | .34   | .15    | .22  | 1.19  | 1.49  | .86   | .15  | 1.02  | 1.78  | .69   | .16  | .16   |
| CAL YR 1975 | TOTAL | 275693 | MEAN | 755   | MAX   | 5190  | MIN  | 41    | CFSM  | 1.36  | IN   | 18.48 |
| WTR YR 1976 | TOTAL | 122373 | MEAN | 334   | MAX   | 2960  | MIN  | 10    | CFSM  | .60   | IN   | 8.20  |

OGEECHEE RIVER BASIN

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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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|--------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| DEC<br>02... | 1430 | 56                                            | 5.8           | 10.5                        | 7.9                                |
| FEB<br>03... | 1400 | 1700                                          | 5.6           | 8.0                         | 8.9                                |
| MAY<br>04... | 1300 | 45                                            | 5.9           | 20.0                        | 5.7                                |
| AUG<br>03... | 1100 | 63                                            | 5.7           | 25.0                        | 6.0                                |

| DATE          | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) |
|---------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| DEC.<br>02... | 4                                        | .02                                                  | --                                                 | .12                                       | 8                                  |
| FEB.<br>03... | 2                                        | .04                                                  | .19                                                | .10                                       | 8                                  |
| MAY<br>04...  | 5                                        | .05                                                  | .06                                                | .12                                       | 10                                 |
| AUG.<br>03... | 3                                        | .06                                                  | .05                                                | .12                                       | 10                                 |

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| DEC.<br>02... | 38                                                         | 60                                           | 8                            | .9                                                           | 230                                              | --                                          |
| FEB.<br>03... | 44                                                         | 90                                           | 7                            | 1.8                                                          | 430                                              | 13                                          |
| MAY<br>04...  | 42                                                         | 100                                          | 5                            | 1.3                                                          | 430                                              | 10                                          |
| AUG.<br>03... | 43                                                         | 100                                          | 8                            | 1.2                                                          | 430                                              | 15                                          |

02203559 PEACOCK CREEK AT MCINTOSH, GA.

LOCATION.--Lat 31°48'49", long 81°31'13", Liberty County, 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 mi<sup>2</sup> (85.5 km<sup>2</sup>), 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 fair. 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.--10 years, 27.8 ft<sup>3</sup>/s (0.787 m<sup>3</sup>/s), 11.44 in/yr (290.6 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 ft<sup>3</sup>/s (0.005 m<sup>3</sup>/s) May 31, 1967.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft<sup>3</sup>/s (4.25 m<sup>3</sup>/s) and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|--------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| May 29 | 0730 | 267 7.56                                              | 9.21 2.807              | June 20 | 0630 | 214 6.06                                              | 8.89 2.710              |
| June 5 | 0530 | *269 7.62                                             | 9.22 2.810              | July 7  | 2200 | 187 5.30                                              | 8.62 2.627              |

Minimum daily discharge, 1.2 ft<sup>3</sup>/s (0.034 m<sup>3</sup>/s) Dec. 5.

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

| DAY               | OCT    | NOV       | DEC     | JAN     | FEB      | MAR     | APR   | MAY    | JUN    | JUL   | AUG   | SEP   |
|-------------------|--------|-----------|---------|---------|----------|---------|-------|--------|--------|-------|-------|-------|
| 1                 | 4.8    | 2.8       | 1.7     | 28      | 27       | 4.6     | 3.7   | 132    | 105    | 70    | 4.3   | 5.4   |
| 2                 | 3.5    | 3.0       | 1.8     | 26      | 44       | 4.8     | 3.7   | 120    | 59     | 30    | 3.5   | 5.8   |
| 3                 | 3.3    | 2.5       | 1.8     | 22      | 39       | 5.0     | 3.7   | 66     | 89     | 16    | 20    | 4.8   |
| 4                 | 4.6    | 2.0       | 1.3     | 18      | 34       | 4.4     | 3.3   | 26     | 181    | 9.9   | 13    | 5.2   |
| 5                 | 5.0    | 1.5       | 1.2     | 15      | 29       | 4.1     | 2.5   | 12     | 261    | 14    | 6.5   | 5.0   |
| 6                 | 4.3    | 1.7       | 1.3     | 13      | 24       | 3.7     | 3.2   | 7.3    | 219    | 48    | 5.2   | 4.8   |
| 7                 | 3.3    | 2.0       | 2.2     | 12      | 20       | 3.2     | 4.1   | 5.0    | 167    | 172   | 5.2   | 6.0   |
| 8                 | 3.2    | 2.7       | 1.7     | 23      | 17       | 2.8     | 2.8   | 6.9    | 95     | 181   | 5.6   | 11    |
| 9                 | 4.1    | 2.2       | 3.7     | 24      | 15       | 4.4     | 2.2   | 7.9    | 32     | 144   | 11    | 14    |
| 10                | 3.9    | 2.0       | 6.0     | 23      | 12       | 3.7     | 1.7   | 6.0    | 20     | 84    | 12    | 27    |
| 11                | 3.2    | 4.6       | 4.6     | 19      | 11       | 4.3     | 1.3   | 5.0    | 14     | 38    | 13    | 18    |
| 12                | 2.8    | 9.9       | 4.6     | 16      | 9.5      | 4.3     | 1.3   | 4.1    | 11     | 21    | 13    | 9.9   |
| 13                | 2.3    | 11        | 4.1     | 13      | 8.6      | 4.4     | 2.5   | 3.5    | 7.7    | 13    | 11    | 5.4   |
| 14                | 2.0    | 8.8       | 3.9     | 12      | 7.9      | 6.5     | 2.2   | 3.3    | 6.3    | 9.7   | 11    | 52    |
| 15                | 2.0    | 8.4       | 3.5     | 10      | 7.1      | 24      | 6.1   | 5.2    | 11     | 7.7   | 6.9   | 74    |
| 16                | 1.7    | 7.7       | 3.3     | 8.8     | 6.3      | 50      | 4.1   | 6.0    | 22     | 6.3   | 5.0   | 54    |
| 17                | 2.0    | 6.7       | 3.9     | 8.6     | 6.0      | 68      | 3.7   | 8.4    | 44     | 5.2   | 8.2   | 36    |
| 18                | 3.2    | 5.6       | 6.5     | 8.2     | 5.2      | 53      | 4.4   | 5.2    | 178    | 4.6   | 6.7   | 23    |
| 19                | 2.0    | 5.0       | 6.1     | 7.3     | 6.0      | 42      | 3.5   | 3.0    | 213    | 4.1   | 7.3   | 15    |
| 20                | 1.3    | 4.3       | 6.0     | 7.1     | 5.3      | 33      | 3.2   | 2.3    | 216    | 4.1   | 5.4   | 9.4   |
| 21                | 1.4    | 3.9       | 5.8     | 6.5     | 5.0      | 26      | 3.5   | 2.0    | 184    | 5.0   | 4.3   | 7.5   |
| 22                | 1.5    | 3.3       | 5.6     | 6.3     | 14       | 21      | 3.5   | 2.3    | 140    | 4.5   | 3.9   | 15    |
| 23                | 1.4    | 3.0       | 5.2     | 6.0     | 10       | 19      | 3.2   | 18     | 105    | 4.1   | 4.1   | 13    |
| 24                | 2.0    | 2.7       | 4.6     | 5.8     | 8.0      | 16      | 3.0   | 23     | 85     | 4.1   | 5.8   | 11    |
| 25                | 1.8    | 2.5       | 4.1     | 5.6     | 6.9      | 14      | 2.7   | 100    | 60     | 4.6   | 4.8   | 10    |
| 26                | 1.5    | 2.2       | 11      | 6.7     | 5.6      | 12      | 3.7   | 161    | 40     | 9.7   | 4.4   | 7.5   |
| 27                | 1.4    | 2.2       | 12      | 30      | 5.4      | 11      | 2.8   | 166    | 30     | 8.0   | 5.2   | 5.8   |
| 28                | 1.5    | 1.7       | 12      | 46      | 4.8      | 9.0     | 2.2   | 227    | 45     | 6.1   | 4.1   | 4.8   |
| 29                | 1.7    | 1.7       | 12      | 40      | 4.6      | 7.5     | 2.7   | 260    | 90     | 5.6   | 3.2   | 43    |
| 30                | 1.8    | 2.0       | 11      | 33      | ---      | 6.7     | 14    | 224    | 110    | 5.4   | 3.2   | 71    |
| 31                | 2.5    | ---       | 23      | 26      | ---      | 5.0     | ---   | 173    | ---    | 5.0   | 6.7   | ---   |
| TOTAL             | 81.0   | 119.6     | 175.5   | 525.9   | 398.2    | 477.4   | 104.5 | 1791.4 | 2840.0 | 944.7 | 223.5 | 574.3 |
| MEAN              | 2.61   | 3.99      | 5.66    | 17.0    | 13.7     | 15.4    | 3.48  | 57.8   | 94.7   | 30.5  | 7.21  | 19.1  |
| MAX               | 5.0    | 11        | 23      | 46      | 44       | 68      | 14    | 260    | 261    | 181   | 20    | 74    |
| MIN               | 1.3    | 1.5       | 1.2     | 5.6     | 4.6      | 2.8     | 1.3   | 2.0    | 6.3    | 4.1   | 3.2   | 4.8   |
| CFSM              | .08    | .12       | .17     | .52     | .42      | .47     | .11   | 1.75   | 2.87   | .92   | .22   | .58   |
| IN.               | .09    | .13       | .20     | .59     | .45      | .54     | .12   | 2.02   | 3.20   | 1.06  | .25   | .65   |
| CAL YR 1975 TOTAL | 7996.8 | MEAN 21.9 | MAX 444 | MIN 1.2 | CFSM .66 | IN 9.01 |       |        |        |       |       |       |
| WTR YR 1976 TOTAL | 8256.0 | MEAN 22.6 | MAX 261 | MIN 1.2 | CFSM .68 | IN 9.31 |       |        |        |       |       |       |

## NORTH NEWPORT RIVER BASIN

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02203559 PEACOCK CREEK AT MCINTOSH, GA.--Continued

## WATER-QUALITY RECORDS

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | TRANS-<br>PAR-<br>ENCY<br>(SECCHI<br>DISK)<br>(IN) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |  |  |  |  |  |
|--------------|------|------------------------------------------|------------------------------------------------------------|----------------------------------------------------|---------------|-----------------------------|------------------------------------|--|--|--|--|--|
| NOV<br>05... | 1510 | 1.5                                      | 237                                                        | --                                                 | 7.5           | 23.5                        | 4.7                                |  |  |  |  |  |
| JAN<br>06... | 1445 | 13                                       | 95                                                         | 18                                                 | 7.9           | 6.8                         | 8.5                                |  |  |  |  |  |
| MAR<br>30... | 1430 | 6.9                                      | 145                                                        | 12                                                 | 7.4           | 25.0                        | 7.0                                |  |  |  |  |  |
| JUN<br>01... | 1310 | 100                                      | 85                                                         | 12                                                 | 5.6           | 25.0                        | 2.2                                |  |  |  |  |  |
| AUG<br>24... | 1300 | 6.9                                      | 211                                                        | --                                                 | 7.2           | 28.0                        | --                                 |  |  |  |  |  |

| DATE         | DIS-<br>SOLVED<br>SILICA<br>(SIO2)<br>(MG/L) | DIS-<br>SOLVED<br>IRON<br>(FE)<br>(UG/L) | DIS-<br>SOLVED<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L) | CAR-<br>BONATE<br>(CO3)<br>(MG/L) | ALKA-<br>LINITY<br>AS<br>CAC03<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) |
|--------------|----------------------------------------------|------------------------------------------|----------------------------------------------------|--------------------------------------------------|---------------------------------------------------------|--------------------------------------------|--------------------------------------------------------|--------------------------------------|-----------------------------------|------------------------------------------|----------------------------------------------|---------------------------------------------------|
| NOV<br>05... | 16                                           | 280                                      | 4                                                  | 8.0                                              | 4.9                                                     | 25                                         | 4.5                                                    | 51                                   | 0                                 | 42                                       | 15                                           | 20                                                |
| JAN<br>06... | 17                                           | 430                                      | 20                                                 | 5.0                                              | 2.3                                                     | 11                                         | 1.7                                                    | 20                                   | 0                                 | 16                                       | 11                                           | 12                                                |
| MAR<br>30... | 18                                           | 360                                      | 30                                                 | 6.8                                              | 3.2                                                     | 17                                         | 2.4                                                    | 41                                   | 0                                 | 34                                       | 11                                           | 16                                                |
| JUN<br>01... | 11                                           | 950                                      | 100                                                | 5.9                                              | 1.8                                                     | 6.3                                        | 1.5                                                    | 10                                   | 0                                 | 8                                        | 13                                           | 9.8                                               |
| AUG<br>24... | 17                                           | 190                                      | 40                                                 | 9.3                                              | 3.6                                                     | 21                                         | 3.6                                                    | 80                                   | 0                                 | 66                                       | 13                                           | 16                                                |

| DATE         | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRATE<br>(NO3)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>(NO2)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) |
|--------------|--------------------------------------------------|--------------------------------------------|----------------------------------------------|--------------------------------------------|----------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------|------------------------------------|---------------------------------------------------|----------------------------------------------|--------------------------------------------------------------|---------------------------------------------------|
| NOV<br>05... | .6                                               | .42                                        | 1.9                                          | .14                                        | .46                                          | .56                                                           | 148                                                              | 40                                 | 0                                                 | 40                                           | --                                                           | 132                                               |
| JAN<br>06... | .3                                               | .29                                        | 1.3                                          | .01                                        | .03                                          | .30                                                           | 100                                                              | 22                                 | 6                                                 | 180                                          | 1.2                                                          | 280                                               |
| MAR<br>30... | .4                                               | .14                                        | .62                                          | .05                                        | .16                                          | .19                                                           | 118                                                              | 30                                 | 0                                                 | 110                                          | 1.3                                                          | 270                                               |
| JUN<br>01... | .5                                               | <.01                                       | <.04                                         | .01                                        | .03                                          | <.02                                                          | 141                                                              | 22                                 | 14                                                | 400                                          | 1.3                                                          | 70                                                |
| AUG<br>24... | .4                                               | --                                         | --                                           | --                                         | --                                           | --                                                            | 136                                                              | 38                                 | 0                                                 | 40                                           | --                                                           | 240                                               |

## NORTH NEWPORT RIVER BASIN

02203566 RICEBORO CREEK NEAR RICEBORO, GA.

LOCATION.--Lat 31°45'16", long 81°27'38", Liberty County, 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 mi<sup>2</sup> (75.6 km<sup>2</sup>).

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | TRANS-<br>PAR-<br>ENCY<br>(SECCHI<br>DISK)<br>(IN) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|--------------|------|------------------------------------------------------------|----------------------------------------------------|---------------|-----------------------------|------------------------------------|
| NOV<br>05... | 1440 | 14900                                                      | 30                                                 | 7.7           | 20.5                        | 4.5                                |
| JAN<br>06... | 1350 | 109                                                        | 24                                                 | 8.8           | 5.3                         | 8.0                                |
| MAR<br>30... | 1345 | 238                                                        | 12                                                 | 7.7           | 21.5                        | 5.0                                |
| JUN<br>01... | 1235 | 92                                                         | 24                                                 | 6.2           | 24.0                        | 4.0                                |
| AUG<br>24... | 1125 | 102                                                        | --                                                 | 6.5           | 24.0                        | --                                 |

| DATE         | DIS-<br>SOLVED<br>SILICA<br>(SIO <sub>2</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>IRON<br>(FE)<br>(UG/L) | DIS-<br>SOLVED<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO <sub>3</sub> )<br>(MG/L) | CAR-<br>BONATE<br>(CO <sub>3</sub> )<br>(MG/L) | ALKA-<br>LINITY<br>AS<br>CACO <sub>3</sub><br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO <sub>4</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) |
|--------------|-----------------------------------------------------------|------------------------------------------|----------------------------------------------------|--------------------------------------------------|---------------------------------------------------------|--------------------------------------------|--------------------------------------------------------|---------------------------------------------------|------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------|
| NOV<br>05... | 8.6                                                       | 190                                      | 150                                                | 120                                              | 240                                                     | 2100                                       | 70                                                     | 22                                                | 0                                              | 18                                                   | 510                                                       | 3600                                              |
| JAN<br>06... | 7.1                                                       | 1500                                     | 20                                                 | 8.3                                              | 3.0                                                     | 10                                         | 1.3                                                    | 11                                                | 0                                              | 9                                                    | 14                                                        | 20                                                |
| MAR<br>30... | 5.0                                                       | 220                                      | 70                                                 | 11                                               | 5.9                                                     | 29                                         | 1.9                                                    | 18                                                | 0                                              | 15                                                   | 11                                                        | 57                                                |
| JUN<br>01... | 5.2                                                       | 490                                      | 30                                                 | 6.5                                              | 1.5                                                     | 5.8                                        | 1.0                                                    | 12                                                | 0                                              | 10                                                   | 9.9                                                       | 9.5                                               |
| AUG<br>24... | 9.3                                                       | 540                                      | 60                                                 | 7.9                                              | 2.3                                                     | 8.5                                        | .8                                                     | 14                                                | 0                                              | 11                                                   | 13                                                        | 16                                                |

| DATE         | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRATE<br>(NO <sub>3</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>(NO <sub>2</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) |
|--------------|--------------------------------------------------|--------------------------------------------|-----------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------|------------------------------------|---------------------------------------------------|----------------------------------------------|--------------------------------------------------------------|---------------------------------------------------|
| NOV<br>05... | .4                                               | .01                                        | .04                                                       | .01                                        | .03                                                       | .02                                                           | 6940                                                             | 1300                               | 1300                                              | 900                                          | --                                                           | 260                                               |
| JAN<br>06... | .3                                               | .00                                        | .00                                                       | .01                                        | .03                                                       | .01                                                           | 108                                                              | 33                                 | 24                                                | 120                                          | .7                                                           | 370                                               |
| MAR<br>30... | .2                                               | .10                                        | .44                                                       | .01                                        | .03                                                       | .11                                                           | 168                                                              | 52                                 | 37                                                | 110                                          | .5                                                           | 130                                               |
| JUN<br>01... | .4                                               | <.02                                       | <.09                                                      | .01                                        | .03                                                       | <.03                                                          | 117                                                              | 22                                 | 13                                                | 300                                          | 1.1                                                          | 80                                                |
| AUG<br>24... | .5                                               | --                                         | --                                                        | --                                         | --                                                        | --                                                            | 122                                                              | 29                                 | 18                                                | 50                                           | --                                                           | 330                                               |



02203570 RICEBORO CREEK AT RICEBORO, GA.

LOCATION.--Lat 31°44'43", long 81°25'37", Liberty County, 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 mi<sup>2</sup> (82.1 km<sup>2</sup>).

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | TRANS-<br>PAR-<br>ENCY<br>(SECCHI<br>DISK)<br>(IN) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|--------------|------|------------------------------------------------------------|----------------------------------------------------|---------------|-----------------------------|------------------------------------|
| NOV<br>05... | 1115 | 22100                                                      | 30                                                 | 7.8           | 20.5                        | 5.4                                |
| JAN<br>06... | 1120 | 1380                                                       | 20                                                 | 8.1           | 9.0                         | 8.4                                |
| MAR<br>30... | 1125 | 14061                                                      | 18                                                 | 7.2           | 20.6                        | 3.8                                |
| JUN<br>01... | 1030 | 168                                                        | 12                                                 | 6.3           | 22.0                        | 4.5                                |
| AUG<br>24... | 1050 | 8510                                                       | --                                                 | 7.6           | 25.8                        | --                                 |

| DATE         | DIS-<br>SOLVED<br>SILICA<br>(SiO <sub>2</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>IRON<br>(FE)<br>(UG/L) | DIS-<br>SOLVED<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO <sub>3</sub> )<br>(MG/L) | CAR-<br>BONATE<br>(CO <sub>3</sub> )<br>(MG/L) | ALKA-<br>LINITY<br>AS<br>CACO <sub>3</sub><br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO <sub>4</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) |
|--------------|-----------------------------------------------------------|------------------------------------------|----------------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------|--------------------------------------------------------|---------------------------------------------------|------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------|
| NOV<br>05... | 6.0                                                       | 140                                      | 40                                                 | 180                                              | 540                                           | 4400                                       | 160                                                    | 136                                               | 0                                              | 112                                                  | 1100                                                      | 7900                                              |
| JAN<br>06... | 8.8                                                       | 180                                      | 60                                                 | 120                                              | 340                                           | 2800                                       | 110                                                    | 81                                                | 0                                              | 66                                                   | 670                                                       | 4500                                              |
| MAR<br>30... | 7.6                                                       | 260                                      | 90                                                 | 110                                              | 320                                           | 2600                                       | 110                                                    | 123                                               | 0                                              | 101                                                  | 700                                                       | 4700                                              |
| JUN<br>01... | 5.1                                                       | 520                                      | 50                                                 | 9.1                                              | 6.1                                           | 40                                         | 2.6                                                    | 20                                                | 0                                              | 16                                                   | 17                                                        | 73                                                |
| AUG<br>24... | 10                                                        | 230                                      | 60                                                 | 57                                               | 160                                           | 1400                                       | 50                                                     | 103                                               | 0                                              | 84                                                   | 360                                                       | 2300                                              |

| DATE         | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRATE<br>(NO <sub>3</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>(NO <sub>2</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) |
|--------------|--------------------------------------------------|--------------------------------------------|-----------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------|------------------------------------|---------------------------------------------------|----------------------------------------------|--------------------------------------------------------------|---------------------------------------------------|
| NOV<br>05... | .7                                               | .03                                        | .13                                                       | .01                                        | .03                                                       | .04                                                           | 15100                                                            | 2700                               | 2600                                              | 90                                           | --                                                           | 150                                               |
| JAN<br>06... | .6                                               | .06                                        | .27                                                       | .00                                        | .00                                                       | .06                                                           | 9130                                                             | 1700                               | 1600                                              | 90                                           | 1.0                                                          | 133                                               |
| MAR<br>30... | .6                                               | .14                                        | .62                                                       | .01                                        | .03                                                       | .15                                                           | 8880                                                             | 1600                               | 1500                                              | 180                                          | .3                                                           | 17                                                |
| JUN<br>01... | .4                                               | <.06                                       | <.27                                                      | .01                                        | .03                                                       | <.07                                                          | 220                                                              | 48                                 | 31                                                | 300                                          | 1.0                                                          | 193                                               |
| AUG<br>24... | .5                                               | --                                         | --                                                        | --                                         | --                                                        | --                                                            | 4580                                                             | 800                                | 720                                               | 100                                          | --                                                           | 350                                               |

## NORTH NEWPORT RIVER BASIN

02203574 NORTH NEWPORT RIVER NEAR SEABROOK, GA.

LOCATION.--Lat 31°42'10", long 81°19'54", Liberty County, 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 mi<sup>2</sup> (373 km<sup>2</sup>).

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | TRANS-<br>PAR-<br>ENCY<br>(SECCHI<br>DISK)<br>(IN) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|--------------|------|------------------------------------------------------------|----------------------------------------------------|---------------|-----------------------------|------------------------------------|
| NOV<br>05... | 1000 | 34300                                                      | 26                                                 | 7.8           | 21.0                        | 4.8                                |
| JAN<br>06... | 0950 | 33700                                                      | 30                                                 | 7.5           | 10.3                        | 8.6                                |
| MAR<br>30... | 1000 | 35800                                                      | 36                                                 | 7.3           | 20.0                        | 6.0                                |
| JUN<br>01... | 0905 | 18000                                                      | 20                                                 | 7.1           | 25.0                        | 4.4                                |
| AUG<br>24... | 0845 | 25700                                                      | --                                                 | 7.4           | 25.5                        | --                                 |

| DATE         | DIS-<br>SOLVED<br>SILICA<br>(SIO <sub>2</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>IRON<br>(FE)<br>(UG/L) | DIS-<br>SOLVED<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO <sub>3</sub> )<br>(MG/L) | CAR-<br>BONATE<br>(CO <sub>3</sub> )<br>(MG/L) | ALKA-<br>LINITY<br>AS<br>CACO <sub>3</sub><br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO <sub>4</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) |
|--------------|-----------------------------------------------------------|------------------------------------------|----------------------------------------------------|--------------------------------------------------|---------------------------------------------------------|--------------------------------------------|--------------------------------------------------------|---------------------------------------------------|------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------|
| NOV<br>05... | 4.5                                                       | 100                                      | 40                                                 | 230                                              | 890                                                     | 7300                                       | 280                                                    | 22                                                | 0                                              | 18                                                   | 1700                                                      | 13000                                             |
| JAN<br>06... | 4.3                                                       | 110                                      | 40                                                 | 300                                              | 920                                                     | 7600                                       | 280                                                    | 135                                               | 0                                              | 111                                                  | 1800                                                      | 13000                                             |
| MAR<br>30... | 4.5                                                       | 190                                      | 50                                                 | 290                                              | 910                                                     | 7100                                       | 300                                                    | 113                                               | 0                                              | 93                                                   | 1900                                                      | 14000                                             |
| JUN<br>01... | 5.8                                                       | 310                                      | 100                                                | 160                                              | 490                                                     | 4100                                       | 16                                                     | 92                                                | 0                                              | 75                                                   | 1000                                                      | 7800                                              |
| AUG<br>24... | 7.3                                                       | 90                                       | 50                                                 | 230                                              | 680                                                     | 5500                                       | 220                                                    | 101                                               | 0                                              | 83                                                   | 1400                                                      | 10000                                             |

| DATE         | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRATE<br>(NO <sub>3</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>(NO <sub>2</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) |
|--------------|--------------------------------------------------|--------------------------------------------|-----------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------|---------------------------------------------------|----------------------------------------------|--------------------------------------------------------------|---------------------------------------------------|
| NOV<br>05... | 1.0                                              | .01                                        | .04                                                       | .01                                        | .03                                                       | .02                                                           | 25300                                                            | 4200                                | 4200                                              | 40                                           | --                                                           | 0                                                 |
| JAN<br>06... | 1.3                                              | .01                                        | .04                                                       | .01                                        | .03                                                       | .02                                                           | 25700                                                            | 4500                                | 4400                                              | 30                                           | 1.0                                                          | --                                                |
| MAR<br>30... | 1.1                                              | .01                                        | .04                                                       | .00                                        | .03                                                       | .02                                                           | 24400                                                            | 4500                                | 4400                                              | 10                                           | .2                                                           | --                                                |
| JUN<br>01... | .7                                               | <.03                                       | <.13                                                      | .01                                        | .03                                                       | <.04                                                          | 14200                                                            | 2400                                | 2300                                              | 90                                           | .9                                                           | --                                                |
| AUG<br>24... | 2.1                                              | --                                         | --                                                        | --                                         | --                                                        | --                                                            | 18300                                                            | 3400                                | 3300                                              | 30                                           | --                                                           | --                                                |

## NORTH NEWPORT RIVER BASIN

75

02203578 NORTH NEWPORT RIVER AT HALFMOON LANDING, GA.

LOCATION.--Lat 31°40'39", long 81°18'05", Liberty County, at gaging station on dock of Halfmoon Landing, and at mile 9.9 (15.9 km).

DRAINAGE AREA.--157 mi<sup>2</sup> (407 km<sup>2</sup>).

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1970 to current year.

pH: July 1970 to current year.

WATER TEMPERATURES: July 1970 to current year.

DISSOLVED OXYGEN: July 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | TRANS-<br>PAR-<br>ENCY<br>(SECCHI<br>DISK)<br>(IN) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | ALKA-<br>LITY<br>AS<br>CACO3<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|-------|------|------------------------------------------------------------|----------------------------------------------------|---------------|-----------------------------|------------------------------------|----------------------------------------|---------------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT   |      |                                                            |                                                    |               |                             |                                    |                                        |                                                   |                                                      |                                                    |                                           |                                                      |                                    |                                              |                              |                                                              |                                                  |                                             |
| 14... | 1400 | 34900                                                      | 30                                                 | 7.2           | 25.8                        | 4.1                                | 105                                    | 13050                                             | <.02                                                 | .12                                                | .10                                       | 34                                                   | 4200                               | 20                                           | 18                           | 1.6                                                          | 30                                               | 17                                          |
| NOV   |      |                                                            |                                                    |               |                             |                                    |                                        |                                                   |                                                      |                                                    |                                           |                                                      |                                    |                                              |                              |                                                              |                                                  |                                             |
| 05... | 0930 | 40700                                                      | --                                                 | 7.8           | 20.7                        | 5.2                                | 106                                    | 15000                                             | <.02                                                 | .16                                                | .13                                       | 57                                                   | 4850                               | 10                                           | 22                           | .9                                                           | <30                                              | 14                                          |
| DEC   |      |                                                            |                                                    |               |                             |                                    |                                        |                                                   |                                                      |                                                    |                                           |                                                      |                                    |                                              |                              |                                                              |                                                  |                                             |
| 09... | 1320 | 34400                                                      | 36                                                 | 7.5           | 16.0                        | 6.8                                | 110                                    | 15450                                             | <.02                                                 | .06                                                | .06                                       | 14                                                   | 5020                               | 5                                            | 5                            | .7                                                           | <30                                              | 7.0                                         |
| JAN   |      |                                                            |                                                    |               |                             |                                    |                                        |                                                   |                                                      |                                                    |                                           |                                                      |                                    |                                              |                              |                                                              |                                                  |                                             |
| 06... | 0915 | 34100                                                      | 30                                                 | 7.7           | 10.7                        | 8.5                                | 112                                    | 15000                                             | <.02                                                 | --                                                 | .09                                       | 21                                                   | 4850                               | 10                                           | 12                           | .8                                                           | <30                                              | --                                          |
| FEB   |      |                                                            |                                                    |               |                             |                                    |                                        |                                                   |                                                      |                                                    |                                           |                                                      |                                    |                                              |                              |                                                              |                                                  |                                             |
| 17... | 1230 | 33210                                                      | 30                                                 | 7.8           | 15.0                        | 7.6                                | 102                                    | 14000                                             | <.02                                                 | .14                                                | .11                                       | 14                                                   | 4620                               | 5                                            | 8                            | .7                                                           | <30                                              | 6.0                                         |
| MAR   |      |                                                            |                                                    |               |                             |                                    |                                        |                                                   |                                                      |                                                    |                                           |                                                      |                                    |                                              |                              |                                                              |                                                  |                                             |
| 30... | 0930 | 38190                                                      | 36                                                 | 7.3           | 19.5                        | 7.0                                | 94                                     | 14500                                             | <.02                                                 | .06                                                | .05                                       | 25                                                   | 4650                               | 20                                           | 7                            | 1.3                                                          | <30                                              | 5.0                                         |
| APR   |      |                                                            |                                                    |               |                             |                                    |                                        |                                                   |                                                      |                                                    |                                           |                                                      |                                    |                                              |                              |                                                              |                                                  |                                             |
| 28... | 0730 | 36750                                                      | 36                                                 | 7.6           | 22.5                        | 6.2                                | 96                                     | 14370                                             | <.02                                                 | <.20                                               | .07                                       | 19                                                   | 4700                               | 10                                           | 11                           | 1.3                                                          | <30                                              | 6.0                                         |
| JUN   |      |                                                            |                                                    |               |                             |                                    |                                        |                                                   |                                                      |                                                    |                                           |                                                      |                                    |                                              |                              |                                                              |                                                  |                                             |
| 01... | 0840 | 27400                                                      | 24                                                 | 7.6           | 25.4                        | 5.1                                | 84                                     | 11250                                             | <.02                                                 | .02                                                | .11                                       | 43                                                   | 3750                               | 30                                           | 16                           | .8                                                           | <30                                              | 12                                          |
| JUL   |      |                                                            |                                                    |               |                             |                                    |                                        |                                                   |                                                      |                                                    |                                           |                                                      |                                    |                                              |                              |                                                              |                                                  |                                             |
| 13... | 0930 | 21250                                                      | 30                                                 | 7.5           | 28.5                        | 4.7                                | 72                                     | 8450                                              | <.02                                                 | --                                                 | .15                                       | 61                                                   | 2720                               | 75                                           | 28                           | 1.2                                                          | 36                                               | 15                                          |
| AUG   |      |                                                            |                                                    |               |                             |                                    |                                        |                                                   |                                                      |                                                    |                                           |                                                      |                                    |                                              |                              |                                                              |                                                  |                                             |
| 24... | 0825 | 30900                                                      | 30                                                 | 7.5           | 26.0                        | 4.5                                | 95                                     | 13380                                             | <.04                                                 | .04                                                | .12                                       | 21                                                   | --                                 | <5                                           | 8                            | 1.1                                                          | <30                                              | 10                                          |

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

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | OCTOBER |       | NOVEMBER |       | DECEMBER |       | JANUARY |       | FEBRUARY |       | MARCH     |       |
|-------|---------|-------|----------|-------|----------|-------|---------|-------|----------|-------|-----------|-------|
|       | MAX     | MIN   | MAX      | MIN   | MAX      | MIN   | MAX     | MIN   | MAX      | MIN   | MAX       | MIN   |
| 1     | ---     | ---   | ---      | ---   | 47600    | 43900 | 32200   | 29700 | 38100    | 35200 | 38200     | 36400 |
| 2     | ---     | ---   | ---      | ---   | 47600    | 38900 | 32700   | 29900 | 38200    | 35100 | 38000     | 35500 |
| 3     | ---     | ---   | ---      | ---   | 43700    | 37500 | 32700   | 30000 | 38600    | 35600 | 38500     | 33100 |
| 4     | ---     | ---   | 41100    | 35300 | 42000    | 35900 | 32200   | 29900 | 38900    | 35900 | 36900     | 34000 |
| 5     | ---     | ---   | 41600    | 34900 | 43100    | 38000 | 32800   | 30300 | 38800    | 36200 | 36800     | 32600 |
| 6     | ---     | ---   | 41200    | 34700 | ---      | ---   | 32700   | 30200 | 38700    | 35800 | ---       | ---   |
| 7     | 39600   | 30500 | 40500    | 34200 | ---      | ---   | 32700   | 30400 | 39200    | 36000 | ---       | ---   |
| 8     | 39300   | 30400 | 39300    | 34100 | ---      | ---   | 32900   | 30400 | 40000    | 36400 | ---       | ---   |
| 9     | 38900   | 30000 | 38900    | 33900 | ---      | ---   | 33200   | 31300 | 38800    | 36300 | 38000     | 34000 |
| 10    | 39200   | 30700 | 38000    | 33800 | ---      | ---   | 33900   | 31300 | 39100    | 36200 | 38200     | 35800 |
| 11    | 38600   | 31200 | 39000    | 34200 | ---      | ---   | 33800   | 31200 | 38800    | 35200 | 37800     | 35200 |
| 12    | 38000   | 31200 | 39000    | 34300 | ---      | ---   | 34000   | 31700 | 39200    | 35700 | 37700     | 34700 |
| 13    | 38200   | 31100 | 38400    | 34100 | ---      | ---   | 34800   | 32100 | 39300    | 36000 | 37000     | 33500 |
| 14    | 40300   | 31300 | 39200    | 34700 | ---      | ---   | 32900   | 30200 | 39400    | 35900 | 36800     | 33000 |
| 15    | 40700   | 33600 | 40500    | 34600 | ---      | ---   | 33500   | 29700 | 39200    | 34800 | 36900     | 32600 |
| 16    | 41200   | 33600 | 41000    | 35400 | ---      | ---   | 33300   | 30400 | 39400    | 36000 | 35800     | 32100 |
| 17    | 40200   | 31300 | 41000    | 34800 | ---      | ---   | 33000   | 29900 | 39000    | 35800 | 35600     | 31600 |
| 18    | 39600   | 30500 | 43400    | 35200 | 32400    | 30400 | 33300   | 30200 | 39300    | 35300 | ---       | ---   |
| 19    | 40600   | 31600 | 43100    | 37200 | 33100    | 29600 | 33300   | 30600 | 38600    | 35100 | ---       | ---   |
| 20    | 40800   | 32900 | 43100    | 37100 | 33000    | 30000 | 33200   | 30400 | 38800    | 35500 | ---       | ---   |
| 21    | 41700   | 33400 | 42700    | 37000 | 33000    | 30000 | 33800   | 30800 | 39000    | 35500 | ---       | ---   |
| 22    | 42200   | 34300 | 42700    | 37400 | 33200    | 30500 | 34100   | 31000 | 38600    | 35200 | ---       | ---   |
| 23    | 42100   | 33000 | 43100    | 37500 | 33100    | 30500 | 34800   | 32700 | 38400    | 33900 | ---       | ---   |
| 24    | 40800   | 32600 | 43800    | 38400 | 33600    | 30700 | 35500   | 33200 | 39000    | 33800 | ---       | ---   |
| 25    | 39600   | 32000 | 44300    | 39700 | 33200    | 30800 | 36200   | 33700 | 39100    | 34100 | ---       | ---   |
| 26    | 38200   | 30900 | 44400    | 39000 | 32800    | 29900 | 35800   | 33200 | 39000    | 34300 | ---       | ---   |
| 27    | 38300   | 30500 | 42500    | 37000 | 32400    | 30000 | 36300   | 33300 | 39200    | 32900 | ---       | ---   |
| 28    | 36500   | 30200 | 43400    | 37600 | 32900    | 30200 | 36400   | 33200 | 39100    | 35600 | ---       | ---   |
| 29    | 43500   | 32400 | 45500    | 39600 | 33200    | 30300 | 36900   | 34000 | 38900    | 34800 | ---       | ---   |
| 30    | ---     | ---   | 44800    | 41100 | 33200    | 30500 | 37200   | 34300 | ---      | ---   | ---       | ---   |
| 31    | ---     | ---   | ---      | ---   | 32900    | 30100 | 37700   | 34700 | ---      | ---   | 35700     | 34400 |
| MONTH | ---     | ---   | 45500    | 33800 | ---      | ---   | 37700   | 29700 | 40000    | 32900 | ---       | ---   |
| DAY   | APRIL   |       | MAY      |       | JUNE     |       | JULY    |       | AUGUST   |       | SEPTEMBER |       |
|       | MAX     | MIN   | MAX      | MIN   | MAX      | MIN   | MAX     | MIN   | MAX      | MIN   | MAX       | MIN   |
| 1     | 36000   | 32900 | 36200    | 31700 | ---      | ---   | 23900   | 9950  | 32700    | 20700 | 31500     | 27000 |
| 2     | 36200   | 33200 | 35200    | 31700 | 27700    | 21300 | 24700   | 9850  | 32400    | 21400 | 32100     | 26700 |
| 3     | 36500   | 33800 | 34700    | 27800 | 28700    | 19200 | 22800   | 9950  | 31900    | 21700 | 32500     | 26800 |
| 4     | 36400   | 33800 | 34000    | 30400 | 28600    | 18700 | 21400   | 9600  | 37700    | 21000 | 31800     | 26200 |
| 5     | 36800   | 34400 | 33800    | 30000 | 29600    | 19900 | 23000   | 9550  | 34200    | 22800 | 31000     | 25300 |
| 6     | 37100   | 34100 | 33900    | 30600 | 29700    | 19900 | 27800   | 10400 | ---      | ---   | 30100     | 24400 |
| 7     | 37300   | 35000 | ---      | ---   | 31600    | 19400 | 28500   | 11700 | ---      | ---   | 30000     | 23800 |
| 8     | 37000   | 35000 | ---      | ---   | 31200    | 18300 | 30200   | 12300 | ---      | ---   | 29000     | 22000 |
| 9     | 37000   | 34600 | ---      | ---   | 30400    | 17800 | 30300   | 13400 | 32200    | 20000 | 28700     | 22300 |
| 10    | 36700   | 34500 | ---      | ---   | 30500    | 17800 | 31300   | 14100 | 31600    | 20800 | 29600     | 22700 |
| 11    | 36600   | 34200 | 35600    | 31200 | 30400    | 18100 | 30100   | 15100 | 31700    | 21900 | 31200     | 23700 |
| 12    | 36400   | 34400 | 35000    | 30200 | 30400    | 18700 | 32300   | 14900 | 30800    | 22200 | 31700     | 24500 |
| 13    | 36500   | 34700 | 34700    | 29700 | 30900    | 19300 | 29700   | 16300 | 30500    | 22200 | 33200     | 25600 |
| 14    | 36400   | 34700 | 34000    | 29400 | 31200    | 20400 | 29200   | 15300 | 30800    | 22400 | 33800     | 23500 |
| 15    | 36100   | 32800 | 33200    | 28000 | 31100    | 20800 | 30600   | 16400 | 30000    | 22800 | 29700     | 20500 |
| 16    | 34800   | 31800 | 32200    | 27300 | 30300    | 20800 | 28600   | 15800 | 30100    | 23300 | 27000     | 19200 |
| 17    | 36600   | 32100 | 31500    | 26200 | 28300    | 20200 | 28800   | 16600 | 30900    | 23600 | 26700     | 18000 |
| 18    | 36700   | 34300 | 30200    | 25500 | 28200    | 19800 | 28800   | 16900 | 32800    | 24200 | 26800     | 17000 |
| 19    | 37500   | 35100 | 29500    | 25900 | 27500    | 19000 | 28800   | 16800 | 35600    | 25100 | 28500     | 16300 |
| 20    | 36800   | 35200 | 30000    | 26500 | 26400    | 17500 | 29700   | 17700 | 33300    | 24000 | 26000     | 15200 |
| 21    | 36900   | 35300 | 30500    | 27100 | 26400    | 15900 | 28600   | 15900 | 31200    | 21600 | ---       | ---   |
| 22    | 36900   | 35000 | 31400    | 28000 | 27300    | 14700 | 29300   | 16500 | 31100    | 20600 | ---       | ---   |
| 23    | 36900   | 35200 | 32300    | 28400 | 26500    | 12800 | 29300   | 16600 | 30600    | 20100 | ---       | ---   |
| 24    | 37000   | 35200 | 33800    | 29200 | 26900    | 12000 | 30200   | 16400 | 28500    | 19700 | ---       | ---   |
| 25    | 37000   | 35000 | 33700    | 29200 | 27300    | 9600  | 30900   | 16200 | 28800    | 20300 | ---       | ---   |
| 26    | 37100   | 34600 | 34700    | 29300 | 26700    | 8280  | 33600   | 17300 | 30000    | 20600 | ---       | ---   |
| 27    | 37200   | 35200 | 36600    | 30000 | 25700    | 7570  | 34500   | 19700 | 29700    | 21100 | ---       | ---   |
| 28    | 37400   | 35000 | 36900    | 30000 | 29800    | 9550  | 34200   | 20200 | 29800    | 22300 | ---       | ---   |
| 29    | 37200   | 35100 | 34700    | 29800 | 26000    | 9950  | 33700   | 20900 | 29700    | 22500 | ---       | ---   |
| 30    | 37200   | 33200 | ---      | ---   | 24800    | 9900  | 32300   | 21200 | 29500    | 22900 | ---       | ---   |
| 31    | ---     | ---   | ---      | ---   | ---      | ---   | 32300   | 20400 | 31400    | 23700 | ---       | ---   |
| MONTH | 37500   | 31800 | 36900    | 25500 | 31600    | 7570  | 34500   | 9550  | 37700    | 19700 | ---       | ---   |

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

PH (UNITS), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

|       | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH     |     |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-----------|-----|
| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | 7.5     | 7.2 | 7.6      | 7.3 | 7.7      | 7.4 | 7.7     | 7.5 | 7.6      | 7.5 | 7.6       | 7.4 |
| 2     | 7.4     | 7.1 | 7.6      | 7.3 | 7.7      | 7.4 | 7.7     | 7.6 | 7.5      | 7.4 | 7.5       | 7.3 |
| 3     | ---     | --- | 7.7      | 7.3 | 7.7      | 7.4 | 7.7     | 7.6 | 7.6      | 7.4 | 7.6       | 7.3 |
| 4     | ---     | --- | 7.5      | 7.3 | 7.6      | 7.4 | 7.7     | 7.5 | 7.5      | 7.3 | 7.5       | 7.3 |
| 5     | ---     | --- | 7.6      | 7.3 | 7.7      | 7.4 | 7.7     | 7.6 | 7.5      | 7.3 | 7.5       | 7.3 |
| 6     | ---     | --- | 7.5      | 7.3 | 7.6      | 7.4 | 7.7     | 7.6 | 7.6      | 7.4 | 7.5       | 7.3 |
| 7     | 7.6     | 7.2 | 7.5      | 7.2 | 7.6      | 7.4 | 7.7     | 7.6 | 7.8      | 7.6 | 7.5       | 7.3 |
| 8     | 7.5     | 7.2 | 7.5      | 7.3 | 7.5      | 7.4 | 7.7     | 7.5 | 7.8      | 7.6 | 7.5       | 7.3 |
| 9     | 7.5     | 7.2 | 7.5      | 7.3 | 7.5      | 7.4 | 7.7     | 7.6 | 7.7      | 7.6 | 7.6       | 7.4 |
| 10    | 7.5     | 7.1 | 7.5      | 7.2 | 7.5      | 7.4 | 7.8     | 7.6 | 7.8      | 7.5 | 7.5       | 7.4 |
| 11    | 7.5     | 7.2 | 7.4      | 7.1 | 7.6      | 7.4 | 7.8     | 7.6 | 7.8      | 7.7 | 7.6       | 7.4 |
| 12    | 7.4     | 7.1 | 7.5      | 7.1 | 7.6      | 7.4 | 7.7     | 7.6 | 7.8      | 7.7 | 7.6       | 7.4 |
| 13    | 7.4     | 7.1 | 7.6      | 7.2 | 7.6      | 7.4 | 7.9     | 7.6 | 7.9      | 7.7 | 7.6       | 7.4 |
| 14    | 7.4     | 7.1 | 7.6      | 7.3 | 7.6      | 7.4 | 7.9     | 7.7 | 7.8      | 7.6 | 7.6       | 7.3 |
| 15    | 7.4     | 7.1 | 7.6      | 7.3 | 7.6      | 7.4 | 7.9     | 7.7 | 7.7      | 7.5 | 7.6       | 7.3 |
| 16    | 7.4     | 7.1 | 7.6      | 7.3 | 7.6      | 7.3 | 7.9     | 7.7 | 7.7      | 7.4 | 7.6       | 7.3 |
| 17    | 7.4     | 7.1 | 7.5      | 7.2 | ---      | --- | 7.9     | 7.7 | 7.5      | 7.4 | 7.5       | 7.2 |
| 18    | 7.4     | 7.2 | 7.6      | 7.2 | 7.7      | 7.5 | 7.8     | 7.7 | 7.7      | 7.4 | ---       | --- |
| 19    | 7.4     | 7.2 | 7.6      | 7.4 | 7.7      | 7.5 | 7.9     | 7.7 | 7.7      | 7.5 | ---       | --- |
| 20    | 7.4     | 7.1 | 7.6      | 7.3 | 7.7      | 7.6 | 7.9     | 7.7 | 7.7      | 7.5 | ---       | --- |
| 21    | 7.4     | 7.2 | 7.6      | 7.4 | 7.7      | 7.6 | 7.8     | 7.6 | 7.7      | 7.5 | ---       | --- |
| 22    | 7.4     | 7.2 | 7.6      | 7.4 | 7.7      | 7.6 | 7.7     | 7.5 | 7.7      | 7.5 | ---       | --- |
| 23    | 7.5     | 7.2 | 7.6      | 7.4 | 7.8      | 7.6 | 7.6     | 7.4 | 7.6      | 7.4 | ---       | --- |
| 24    | 7.5     | 7.2 | 7.7      | 7.4 | 7.8      | 7.6 | 7.5     | 7.4 | 7.6      | 7.4 | ---       | --- |
| 25    | 7.5     | 7.3 | 7.6      | 7.5 | 7.8      | 7.6 | 7.9     | 7.7 | 7.6      | 7.4 | ---       | --- |
| 26    | 7.5     | 7.3 | 7.7      | 7.4 | 7.8      | 7.6 | 7.9     | 7.6 | 7.6      | 7.4 | ---       | --- |
| 27    | 7.5     | 7.2 | 7.7      | 7.4 | 7.8      | 7.6 | 7.7     | 7.5 | 7.6      | 7.4 | ---       | --- |
| 28    | 7.6     | 7.2 | 7.7      | 7.4 | 7.8      | 7.7 | 7.7     | 7.5 | 7.5      | 7.4 | ---       | --- |
| 29    | 7.6     | 7.3 | 7.7      | 7.5 | 7.8      | 7.7 | 7.6     | 7.4 | 7.6      | 7.3 | ---       | --- |
| 30    | 7.5     | 7.2 | 7.8      | 7.4 | 7.8      | 7.6 | 7.7     | 7.5 | ---      | --- | ---       | --- |
| 31    | 7.6     | 7.2 | ---      | --- | 7.7      | 7.6 | 7.6     | 7.4 | ---      | --- | 7.5       | 7.3 |
| MONTH | 7.6     | 7.1 | 7.8      | 7.1 | 7.8      | 7.3 | 7.9     | 7.4 | 7.9      | 7.3 | ---       | --- |
|       | APRIL   |     | MAY      |     | JUNE     |     | JULY    |     | AUGUST   |     | SEPTEMBER |     |
| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | 7.5     | 7.3 | 7.6      | 7.3 | ---      | --- | 7.1     | 6.6 | 7.1      | 6.8 | 7.2       | 6.8 |
| 2     | 7.5     | 7.3 | 7.5      | 7.3 | 7.3      | 7.1 | 7.0     | 6.6 | 7.1      | 6.8 | 7.2       | 6.9 |
| 3     | 7.6     | 7.3 | 7.5      | 7.2 | 7.3      | 7.0 | 7.0     | 6.6 | 7.2      | 6.9 | 7.2       | 6.9 |
| 4     | 7.5     | 7.3 | 7.6      | 7.3 | 7.3      | 7.0 | 7.0     | 6.6 | 7.2      | 6.9 | 7.2       | 6.9 |
| 5     | 7.6     | 7.3 | 7.7      | 7.3 | 7.4      | 7.0 | 6.8     | 6.7 | 7.2      | 6.9 | 7.2       | 6.9 |
| 6     | 7.6     | 7.3 | 7.6      | 7.3 | 7.5      | 7.0 | 7.3     | 6.9 | 7.3      | 6.9 | 7.1       | 6.9 |
| 7     | ---     | --- | ---      | --- | 7.5      | 7.0 | 7.2     | 6.9 | 7.3      | 6.9 | 7.2       | 6.9 |
| 8     | ---     | --- | ---      | --- | 7.4      | 6.9 | 7.2     | 6.7 | 7.3      | 6.9 | 7.2       | 7.0 |
| 9     | ---     | --- | ---      | --- | 7.4      | 6.9 | 7.1     | 6.6 | 7.2      | 6.9 | 7.3       | 7.0 |
| 10    | ---     | --- | ---      | --- | 7.3      | 6.8 | 6.9     | 6.6 | 7.2      | 6.9 | 7.3       | 7.1 |
| 11    | ---     | --- | 7.4      | 7.0 | 7.3      | 6.9 | 6.9     | 6.6 | 7.3      | 7.0 | 7.4       | 7.1 |
| 12    | ---     | --- | 7.3      | 7.0 | 7.2      | 6.9 | 7.0     | 6.8 | 7.3      | 7.0 | 7.4       | 7.2 |
| 13    | 7.6     | 7.3 | 7.3      | 6.9 | 7.3      | 6.9 | 7.3     | 6.8 | 7.3      | 7.0 | 7.4       | 7.2 |
| 14    | 7.6     | 7.2 | 7.3      | 7.0 | 7.3      | 6.9 | 7.3     | 6.9 | 7.2      | 7.0 | 7.4       | 7.2 |
| 15    | 7.6     | 7.2 | 7.3      | 7.0 | 7.3      | 7.0 | 7.3     | 7.0 | 7.2      | 7.0 | 7.4       | 7.0 |
| 16    | 7.6     | 7.3 | 7.3      | 7.0 | 7.3      | 7.0 | 7.2     | 6.9 | 7.2      | 7.0 | 7.2       | 6.9 |
| 17    | 7.6     | 7.3 | 7.3      | 7.0 | 7.4      | 7.0 | 7.2     | 7.0 | 7.3      | 7.1 | 7.1       | 6.9 |
| 18    | 7.6     | 7.2 | 7.3      | 7.0 | 7.3      | 7.0 | 7.2     | 7.0 | 7.5      | 7.3 | 7.1       | 6.8 |
| 19    | 7.6     | 7.3 | 7.5      | 7.2 | 7.2      | 6.9 | 7.2     | 7.0 | 7.5      | 7.1 | 7.1       | 6.8 |
| 20    | 7.6     | 7.3 | 7.4      | 7.2 | 7.3      | 6.9 | 7.2     | 6.9 | 7.4      | 7.1 | 7.0       | 6.7 |
| 21    | 7.6     | 7.3 | 7.5      | 7.1 | 7.3      | 6.9 | 7.3     | 7.0 | 7.3      | 7.1 | ---       | --- |
| 22    | 7.6     | 7.3 | 7.4      | 7.1 | 7.4      | 7.0 | 7.1     | 6.8 | 7.3      | 6.9 | ---       | --- |
| 23    | 7.6     | 7.4 | 7.3      | 7.0 | 7.4      | 7.0 | 7.1     | 6.7 | 7.2      | 6.9 | ---       | --- |
| 24    | 7.5     | 7.3 | 7.4      | 7.1 | 7.4      | 7.0 | 7.1     | 6.7 | 7.2      | 6.9 | ---       | --- |
| 25    | 7.6     | 7.3 | 7.3      | 7.0 | 7.3      | 6.9 | 6.9     | 6.7 | 7.2      | 6.8 | ---       | --- |
| 26    | 7.8     | 7.2 | 7.3      | 7.0 | 7.4      | 6.9 | 7.1     | 6.7 | 7.5      | 6.9 | ---       | --- |
| 27    | 7.7     | 7.4 | 7.3      | 7.0 | 7.3      | 6.8 | 7.0     | 6.7 | 7.5      | 6.9 | ---       | --- |
| 28    | 7.8     | 7.4 | 7.3      | 6.9 | 7.2      | 6.7 | 7.0     | 6.7 | 7.7      | 6.9 | ---       | --- |
| 29    | 7.7     | 7.4 | 7.2      | 7.0 | 7.1      | 6.6 | 7.0     | 6.7 | 7.7      | 6.8 | ---       | --- |
| 30    | 7.7     | 7.3 | ---      | --- | 7.0      | 6.6 | 7.1     | 6.8 | 7.4      | 6.8 | ---       | --- |
| 31    | ---     | --- | ---      | --- | ---      | --- | 7.1     | 6.8 | 7.5      | 6.9 | ---       | --- |
| MONTH | 7.8     | 7.2 | 7.7      | 6.9 | 7.5      | 6.6 | 7.3     | 6.6 | 7.7      | 6.8 | ---       | --- |



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

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

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

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |      | FEBRUARY |     | MARCH     |     |
|-------|---------|-----|----------|-----|----------|-----|---------|------|----------|-----|-----------|-----|
|       | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN  | MAX      | MIN | MAX       | MIN |
| 1     | 5.3     | 4.3 | 6.6      | 5.5 | 9.5      | 8.3 | 9.4     | 8.0  | 9.7      | 9.1 | ---       | --- |
| 2     | 5.4     | 4.5 | 6.4      | 5.7 | 9.2      | 8.2 | 8.5     | 7.5  | 9.3      | 8.8 | ---       | --- |
| 3     | 5.7     | 4.8 | 6.4      | 5.6 | 9.1      | 8.4 | 8.9     | 7.3  | 9.7      | 9.0 | 8.5       | 6.8 |
| 4     | 5.9     | 4.9 | 6.3      | 5.5 | 9.1      | 8.3 | 8.6     | 7.4  | 10.0     | 9.2 | 8.4       | 7.4 |
| 5     | 5.7     | 4.8 | 6.1      | 5.6 | 9.0      | 8.4 | 9.1     | 8.0  | 10.1     | 9.4 | 8.1       | 7.1 |
| 6     | 5.7     | 4.5 | 6.3      | 5.5 | 8.8      | 8.3 | 9.4     | 8.1  | 10.1     | 9.6 | 7.9       | 6.8 |
| 7     | 5.7     | 4.6 | 6.3      | 5.6 | 8.8      | 8.0 | 8.9     | 8.3  | 9.7      | 8.7 | 7.7       | 6.7 |
| 8     | 5.5     | 4.7 | 6.2      | 5.5 | 8.3      | 7.7 | 9.2     | 8.6  | 9.9      | 8.4 | 7.6       | 6.3 |
| 9     | 5.5     | 4.7 | 6.1      | 5.2 | 7.8      | 6.6 | 9.9     | 9.2  | 9.6      | 9.1 | 7.2       | 6.0 |
| 10    | 5.5     | 4.6 | 7.6      | 5.2 | 7.3      | 6.5 | 10.6    | 9.6  | 9.5      | 9.0 | 7.0       | 5.8 |
| 11    | 5.5     | 4.5 | 7.9      | 6.9 | 7.7      | 7.1 | 10.5    | 9.9  | 9.9      | 8.8 | 6.8       | 6.0 |
| 12    | 5.4     | 4.4 | 7.5      | 6.5 | 8.1      | 7.2 | 11.5    | 10.5 | 9.7      | 9.0 | 8.0       | 6.0 |
| 13    | 5.2     | 4.0 | 8.6      | 6.5 | 8.2      | 7.2 | 12.2    | 11.0 | 9.2      | 8.9 | 8.4       | 7.3 |
| 14    | 4.6     | 4.0 | 8.8      | 7.2 | 8.0      | 7.0 | 11.9    | 11.2 | 9.0      | 8.6 | 8.0       | 7.2 |
| 15    | 4.8     | 3.6 | 8.7      | 7.3 | 7.9      | 6.7 | 11.6    | 10.9 | 8.6      | 8.3 | 8.3       | 7.1 |
| 16    | 4.6     | 3.7 | 7.8      | 6.5 | 7.8      | 6.4 | 11.1    | 10.5 | 8.3      | 7.8 | 9.3       | 7.9 |
| 17    | 5.2     | 3.9 | 7.3      | 6.1 | ---      | --- | 10.6    | 10.1 | 8.3      | 7.7 | 9.5       | 8.2 |
| 18    | 5.1     | 4.2 | 7.4      | 5.6 | 8.2      | 7.2 | 10.3    | 9.5  | 8.3      | 7.3 | ---       | --- |
| 19    | 4.9     | 4.2 | 7.3      | 6.6 | 8.6      | 7.9 | 10.2    | 9.5  | 7.9      | 6.7 | ---       | --- |
| 20    | 5.0     | 3.8 | 7.4      | 6.6 | 8.8      | 8.3 | 10.5    | 9.2  | ---      | --- | ---       | --- |
| 21    | 5.1     | 4.2 | 7.2      | 6.6 | 8.9      | 8.3 | 10.3    | 9.8  | 8.0      | 6.8 | ---       | --- |
| 22    | 5.1     | 4.4 | 7.3      | 6.3 | 9.3      | 8.3 | 10.1    | 9.7  | 8.0      | 7.2 | ---       | --- |
| 23    | 5.6     | 4.4 | 7.5      | 6.8 | 9.5      | 8.8 | 10.3    | 9.6  | 7.8      | 7.2 | ---       | --- |
| 24    | 5.9     | 4.8 | 7.6      | 7.0 | 10.0     | 9.5 | 10.1    | 9.5  | 7.8      | 6.9 | ---       | --- |
| 25    | 5.9     | 5.2 | 8.1      | 7.3 | 10.2     | 9.2 | 10.1    | 9.6  | 7.9      | 7.0 | ---       | --- |
| 26    | 5.7     | 4.9 | 8.7      | 7.7 | 10.6     | 9.1 | 10.3    | 9.4  | 7.7      | 6.9 | ---       | --- |
| 27    | 5.6     | 4.8 | 9.1      | 8.0 | 10.8     | 9.4 | 9.6     | 9.2  | 7.3      | 6.3 | ---       | --- |
| 28    | 6.3     | 5.0 | 9.4      | 8.2 | 10.7     | 9.3 | 9.9     | 9.4  | ---      | --- | ---       | --- |
| 29    | 6.2     | 4.8 | 9.6      | 8.4 | 10.7     | 9.6 | 9.8     | 9.4  | ---      | --- | ---       | --- |
| 30    | 6.0     | 4.9 | 9.5      | 8.3 | 10.8     | 9.3 | 9.9     | 9.4  | ---      | --- | ---       | --- |
| 31    | 6.5     | 5.1 | ---      | --- | 10.5     | 8.7 | 9.8     | 9.4  | ---      | --- | 7.1       | 6.5 |
| MONTH | 6.5     | 3.6 | 9.6      | 5.2 | 10.8     | 6.4 | 12.2    | 7.3  | 10.1     | 6.3 | ---       | --- |
| DAY   | APRIL   |     | MAY      |     | JUNE     |     | JULY    |      | AUGUST   |     | SEPTEMBER |     |
|       | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN  | MAX      | MIN | MAX       | MIN |
| 1     | 7.2     | 6.0 | 6.4      | 5.8 | ---      | --- | 5.5     | 4.5  | 4.1      | 2.4 | 5.0       | 4.0 |
| 2     | 7.2     | 6.2 | 6.2      | 5.6 | 5.8      | 4.5 | 5.2     | 4.2  | 3.9      | 2.8 | 4.8       | 3.7 |
| 3     | 7.2     | 6.2 | 5.7      | 5.0 | 5.8      | 4.2 | 5.1     | 4.2  | 4.0      | 3.2 | 4.6       | 3.2 |
| 4     | 7.4     | 6.3 | 6.0      | 5.2 | 5.5      | 3.8 | 5.2     | 3.8  | 4.8      | 3.3 | 4.8       | 3.3 |
| 5     | 7.4     | 6.3 | 6.2      | 5.5 | 5.3      | 4.0 | 4.9     | 3.6  | 4.9      | 3.6 | 4.4       | 3.4 |
| 6     | 7.5     | 6.4 | 6.0      | 5.0 | 5.7      | 4.0 | 5.5     | 3.8  | 4.9      | 3.6 | 4.2       | 3.4 |
| 7     | 7.3     | 6.2 | ---      | --- | 5.6      | 3.9 | 5.8     | 4.5  | 4.8      | 3.6 | 4.4       | 3.6 |
| 8     | 7.6     | 6.4 | ---      | --- | 5.6      | 4.0 | 5.6     | 3.9  | 4.6      | 3.6 | ---       | --- |
| 9     | 7.7     | 6.3 | ---      | --- | 5.4      | 3.9 | 5.5     | 3.8  | 4.4      | 3.7 | ---       | --- |
| 10    | 7.6     | 6.3 | ---      | --- | 5.0      | 3.7 | 5.6     | 4.2  | 4.1      | 3.5 | ---       | --- |
| 11    | 7.1     | 6.2 | 7.6      | 6.3 | 4.6      | 3.4 | 5.3     | 4.1  | 4.0      | 3.3 | ---       | --- |
| 12    | 7.4     | 6.0 | 7.4      | 6.0 | 4.6      | 3.4 | 5.1     | 4.1  | 4.0      | 3.1 | ---       | --- |
| 13    | 7.3     | 6.4 | 7.2      | 5.9 | 4.8      | 3.5 | 5.9     | 4.2  | 3.5      | 2.9 | ---       | --- |
| 14    | 6.5     | 6.0 | 6.9      | 5.8 | 5.1      | 3.6 | 6.3     | 4.5  | 3.3      | 2.7 | ---       | --- |
| 15    | 6.6     | 5.7 | 6.5      | 5.6 | 5.2      | 3.7 | 6.6     | 4.8  | 3.7      | 2.7 | ---       | --- |
| 16    | 6.6     | 5.9 | 6.5      | 4.8 | 5.1      | 3.9 | 6.9     | 4.5  | 4.3      | 3.1 | ---       | --- |
| 17    | 6.4     | 5.3 | 6.1      | 4.7 | 5.3      | 3.9 | 6.2     | 4.6  | 4.1      | 3.2 | ---       | --- |
| 18    | 5.9     | 5.0 | 6.0      | 4.5 | 4.5      | 3.2 | 5.6     | 4.4  | 5.4      | 3.7 | ---       | --- |
| 19    | 5.2     | 4.4 | 6.4      | 5.1 | 4.1      | 3.2 | 5.9     | 4.6  | 5.4      | 4.5 | ---       | --- |
| 20    | 4.7     | 4.0 | 6.5      | 5.1 | 4.7      | 3.1 | 6.4     | 4.6  | 5.4      | 4.1 | ---       | --- |
| 21    | 5.4     | 3.8 | 6.1      | 4.5 | 4.9      | 3.9 | 6.8     | 5.0  | 5.0      | 4.0 | ---       | --- |
| 22    | 5.3     | 4.2 | 5.4      | 4.1 | 5.3      | 3.9 | 6.3     | 4.8  | 5.2      | 3.9 | ---       | --- |
| 23    | 4.6     | 4.1 | 5.3      | 4.2 | 5.4      | 4.1 | 5.7     | 4.0  | 5.0      | 4.1 | ---       | --- |
| 24    | 4.7     | 4.0 | 5.4      | 4.4 | 5.5      | 3.9 | 5.3     | 3.4  | 4.4      | 3.5 | ---       | --- |
| 25    | 4.8     | 3.9 | 5.0      | 4.2 | 5.3      | 3.8 | 3.8     | 2.8  | 4.4      | 3.0 | ---       | --- |
| 26    | 5.7     | 4.4 | 5.2      | 4.2 | 5.3      | 3.6 | 4.0     | 2.3  | 3.7      | 2.7 | ---       | --- |
| 27    | 7.1     | 5.4 | 5.6      | 4.3 | 4.8      | 3.5 | 3.2     | 2.1  | 4.0      | 2.3 | ---       | --- |
| 28    | 7.4     | 5.9 | 5.9      | 4.5 | 4.7      | 3.4 | 3.0     | 1.8  | 3.9      | 2.7 | ---       | --- |
| 29    | 7.2     | 6.2 | 5.4      | 4.5 | 4.9      | 3.7 | 3.4     | 2.0  | 3.9      | 1.7 | ---       | --- |
| 30    | 6.7     | 6.2 | ---      | --- | 5.0      | 4.1 | 3.6     | 1.4  | 4.7      | 2.8 | ---       | --- |
| 31    | ---     | --- | ---      | --- | ---      | --- | 3.7     | 2.3  | 4.9      | 3.3 | ---       | --- |
| MONTH | 7.7     | 3.8 | 7.6      | 4.1 | 5.8      | 3.1 | 6.9     | 1.4  | 5.4      | 1.7 | ---       | --- |

## ALTAMAHA RIVER BASIN

02203800 SOUTH RIVER AT ATLANTA, GA.

LOCATION.--Lat 33°40'46", long 84°18'30", DeKalb County, 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 mi<sup>2</sup> (107 km<sup>2</sup>).

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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

| DATE         | TIME                                               | PH<br>(UNITS)                             | TEMPER-<br>ATURE<br>(DEG C)                          | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L)   |                                               |                                                            |                                              |                                                   |                                                              |                                                  |                                             |
|--------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|--------------------------------------|-----------------------------------------------|------------------------------------------------------------|----------------------------------------------|---------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| JUL<br>31... | 0845                                               | 6.8                                       | 23.0                                                 | 4.0                                  |                                               |                                                            |                                              |                                                   |                                                              |                                                  |                                             |
| AUG<br>21... | 1230                                               | 7.3                                       | 26.5                                                 | 2.6                                  |                                               |                                                            |                                              |                                                   |                                                              |                                                  |                                             |
| SEP<br>18... | 0900                                               | 6.8                                       | 20.0                                                 | 6.7                                  |                                               |                                                            |                                              |                                                   |                                                              |                                                  |                                             |
| DATE         | TOTAL<br>IRON<br>(FE)<br>(UG/L)                    | TOTAL<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | TOTAL<br>CAL-<br>CIUM<br>(CA)<br>(MG/L)              | TOTAL<br>MAG-<br>NE-<br>SIUM<br>(MG) | TOTAL<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L)                   | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L)         |                                                  |                                             |
| JUL<br>31... | 1700                                               | 400                                       | --                                                   | --                                   | 4.9                                           | 40                                                         | 23                                           | --                                                | 2.7                                                          |                                                  |                                             |
| AUG<br>21... | 1300                                               | 410                                       | 11                                                   | 3.8                                  | 5.3                                           | 65                                                         | 29                                           | 26                                                | 4.6                                                          |                                                  |                                             |
| SEP<br>18... | 11000                                              | 430                                       | 4.1                                                  | --                                   | 3.6                                           | 16                                                         | 8.0                                          | 3.5                                               | .28                                                          |                                                  |                                             |
| DATE         | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | TOTAL<br>RESI-<br>DUE<br>(MG/L)      | HARD-<br>NESS<br>(CA,MG)<br>(MG/L)            | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU)                      | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
| JUL<br>31... | 1.9                                                | 2.0                                       | 31                                                   | 202                                  | 46                                            | 215                                                        | 60                                           | 34                                                | 6.2                                                          | 93000                                            | 13                                          |
| AUG<br>21... | 2.4                                                | 3.4                                       | 27                                                   | 270                                  | 53                                            | 350                                                        | 50                                           | 24                                                | 12                                                           | 430000                                           | 23                                          |
| SEP<br>18... | .38                                                | .95                                       | --                                                   | 548                                  | 17                                            | 59                                                         | 150                                          | 360                                               | >7.0                                                         | 230000                                           | 19                                          |

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|--------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT<br>23... | 0800 | 18                                            | 7.1           | 15.0                        | 4.7                                |
| NOV<br>20... | 1045 | 54                                            | 7.0           | 13.0                        | --                                 |
| DEC<br>18... | 1445 | 86                                            | 7.3           | 9.5                         | 8.4                                |
| JAN<br>12... | 1120 | 78                                            | 7.1           | 9.0                         | 7.4                                |
| FEB<br>25... | 1110 | 97                                            | 7.1           | 12.0                        | 6.6                                |
| MAR<br>24... | 1300 | 118                                           | 6.9           | 14.0                        | 7.2                                |
| APR<br>20... | 1155 | 84                                            | 7.2           | 19.0                        | 4.5                                |
| MAY<br>17... | 1000 | 76                                            | 6.7           | 19.0                        | 5.2                                |
| JUN<br>23... | 1030 | 61                                            | 6.9           | 21.0                        | 3.6                                |
| JUL<br>26... | 0840 | 25                                            | 6.9           | 24.5                        | 3.3                                |
| AUG<br>30... | 1020 | 50                                            | 7.0           | 24.0                        | 3.5                                |

02203800 SOUTH RIVER AT ATLANTA, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TOTAL<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | TOTAL<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | TOTAL<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | TOTAL<br>SODIUM<br>(NA)<br>(MG/L) | TOTAL<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) |
|---------------|---------------------------------|-------------------------------------------|-----------------------------------------|------------------------------------------------|-----------------------------------|-----------------------------------------------|------------------------------------------|----------------------------------------------|---------------------------------------------------|------------------------------------------------------|
| OCT.<br>23... | 1300                            | 490                                       | 14                                      | 4.2                                            | 43                                | 6.7                                           | 77                                       | 56                                           | 34                                                | 2.3                                                  |
| NOV.<br>20... | 1300                            | 470                                       | 14                                      | 4.1                                            | 42                                | 6.9                                           | 70                                       | 21                                           | 30                                                | 3.0                                                  |
| DEC.<br>18... | 1400                            | 390                                       | 13                                      | 3.5                                            | 26                                | 5.8                                           | 65                                       | 26                                           | 18                                                | 2.6                                                  |
| JAN.<br>12... | 1300                            | 470                                       | 15                                      | 3.9                                            | 21                                | 4.3                                           | 60                                       | 38                                           | 21                                                | 1.4                                                  |
| FEB.<br>25... | 1600                            | 520                                       | 15                                      | 4.0                                            | 38                                | 6.5                                           | 82                                       | 34                                           | 54                                                | .76                                                  |
| MAR.<br>24... | 1500                            | 550                                       | 17                                      | 4.6                                            | 31                                | 6.0                                           | 70                                       | 38                                           | 23                                                | 1.0                                                  |
| APR.<br>20... | 1700                            | 510                                       | 15                                      | 4.2                                            | 39                                | 5.9                                           | 84                                       | 35                                           | 28                                                | 1.1                                                  |
| MAY<br>17...  | 1400                            | 490                                       | 14                                      | 4.3                                            | 23                                | 4.9                                           | 49                                       | 28                                           | 22                                                | 3.4                                                  |
| JUNE<br>23... | 1600                            | 400                                       | 15                                      | 4.0                                            | 33                                | 6.0                                           | 66                                       | 28                                           | 28                                                | 2.6                                                  |
| JULY<br>26... | 1700                            | 400                                       | 22                                      | 11                                             | 28                                | 5.8                                           | 57                                       | 26                                           | 27                                                | .27                                                  |
| AUG.<br>30... | 1300                            | 335                                       | 14                                      | 3.6                                            | 28                                | 6.4                                           | 56                                       | 26                                           | 29                                                | 14                                                   |

| DATE          | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | TOTAL<br>RESI-<br>DUE<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | RIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|---------------------------------|------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>23... | 1.8                                                | 2.2                                       | 12                                                   | 262                             | 55                                 | 342                                                        | 25                                           | 22                           | 11                                                           | 230000                                           | 22                                          |
| NOV.<br>20... | 2.2                                                | 3.0                                       | 17                                                   | 246                             | 53                                 | 319                                                        | 50                                           | 25                           | --                                                           | 93000                                            | 23                                          |
| DEC.<br>18... | 3.8                                                | 2.0                                       | 27                                                   | 210                             | 46                                 | 276                                                        | 40                                           | 38                           | >7.0                                                         | 430000                                           | 22                                          |
| JAN.<br>12... | 2.1                                                | 3.2                                       | 18                                                   | 182                             | 50                                 | 263                                                        | 20                                           | 26                           | 11                                                           | 23000                                            | 18                                          |
| FEB.<br>25... | 4.1                                                | 3.5                                       | 25                                                   | 240                             | 52                                 | 322                                                        | 70                                           | 28                           | --                                                           | 43000                                            | 25                                          |
| MAR.<br>24... | 4.7                                                | 2.3                                       | 33                                                   | 236                             | 56                                 | 313                                                        | 50                                           | 66                           | >15                                                          | 230000                                           | 27                                          |
| APR.<br>20... | 6.8                                                | 4.0                                       | 34                                                   | 260                             | 52                                 | 330                                                        | 25                                           | 37                           | >14                                                          | 230000                                           | 31                                          |
| MAY<br>17...  | 2.6                                                | 2.1                                       | 20                                                   | 206                             | 54                                 | 244                                                        | 20                                           | 21                           | >7.3                                                         | 43000                                            | 15                                          |
| JUNE<br>23... | 3.4                                                | 3.2                                       | 22                                                   | 254                             | 50                                 | 301                                                        | 40                                           | 30                           | 15                                                           | 230000                                           | 26                                          |
| JULY<br>26... | 5.1                                                | 2.7                                       | 10                                                   | 208                             | 48                                 | 272                                                        | 10                                           | 12                           | 7.8                                                          | 1500                                             | 12                                          |
| AUG.<br>30... | 8.5                                                | 3.5                                       | 16                                                   | 218                             | 48                                 | 307                                                        | 20                                           | 15                           | 12                                                           | 4300                                             | 17                                          |

## ALTAMAHA RIVER BASIN

02203965 SOUTH RIVER NEAR LITHONIA, GA.

LOCATION.--Lat 33°39'14", long 84°11'12", DeKalb County, 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

| DATE         | TIME | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|--------------|------|---------------|-----------------------------|------------------------------------|
| JUL<br>31... | 1015 | 6.8           | 22.5                        | 6.0                                |
| AUG<br>21... | 1135 | 7.4           | 24.5                        | 5.4                                |
| SEP<br>18... | 1015 | 6.8           | 20.0                        | 6.7                                |

| DATE         | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | TOTAL<br>RESI-<br>DUE<br>(MG/L) |
|--------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|---------------------------------|
| JUL<br>31... | 24                                       | 1.1                                                  | .35                                                | .75                                       | 89                                                   | 202                             |
| AUG<br>21... | 47                                       | 2.3                                                  | 1.5                                                | 2.2                                       | 11                                                   | 178                             |
| SEP<br>18... | 17                                       | .47                                                  | .46                                                | 2.0                                       | --                                                   | 1130                            |

| DATE         | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|--------------|------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| JUL<br>31... | 34                                 | 126                                                        | 70                                           | 96                           | 2.8                                                          | 93000                                            | 9.0                                         |
| AUG<br>21... | 37                                 | 235                                                        | 30                                           | 16                           | 6.9                                                          | 150000                                           | 10                                          |
| SEP<br>18... | 18                                 | 64                                                         | 200                                          | 580                          | >6.7                                                         | 230000                                           | 11                                          |



02203965 SOUTH RIVER NEAR LITHONIA, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |               |                             |                                    |
| 23... | 0915 | 7.2           | 14.5                        | 6.7                                |
| NOV.  |      |               |                             |                                    |
| 20... | 0900 | 7.0           | 13.0                        | --                                 |
| DEC.  |      |               |                             |                                    |
| 18... | 1415 | 7.1           | 8.0                         | 10.4                               |
| JAN.  |      |               |                             |                                    |
| 12... | 1040 | 7.0           | 6.5                         | 9.4                                |
| FEB.  |      |               |                             |                                    |
| 25... | 1015 | 7.1           | 10.0                        | 9.0                                |
| MAR.  |      |               |                             |                                    |
| 24... | 1400 | 7.1           | 13.0                        | 8.8                                |
| APR.  |      |               |                             |                                    |
| 20... | 1300 | 7.2           | 18.0                        | 6.6                                |
| MAY   |      |               |                             |                                    |
| 17... | 1050 | 7.1           | 18.5                        | 6.1                                |
| JUNE  |      |               |                             |                                    |
| 23... | 0945 | 7.1           | 20.5                        | 5.2                                |
| JULY  |      |               |                             |                                    |
| 26... | 0945 | 7.1           | 25.0                        | 4.0                                |
| AUG.  |      |               |                             |                                    |
| 30... | 0945 | 7.1           | 24.0                        | 4.7                                |

| DATE  | ALKA-<br>LINITY<br>AS<br>CaCO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | TOTAL<br>RESI-<br>DUE<br>(MG/L) |
|-------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|---------------------------------|
| OCT.  |                                          |                                                      |                                                    |                                           |                                                      |                                 |
| 23... | 50                                       | 4.7                                                  | 1.7                                                | 1.2                                       | 11                                                   | 170                             |
| NOV.  |                                          |                                                      |                                                    |                                           |                                                      |                                 |
| 20... | 50                                       | 1.6                                                  | 2.3                                                | 2.0                                       | --                                                   | --                              |
| DEC.  |                                          |                                                      |                                                    |                                           |                                                      |                                 |
| 18... | 35                                       | 1.0                                                  | 1.6                                                | 1.2                                       | 30                                                   | 142                             |
| JAN.  |                                          |                                                      |                                                    |                                           |                                                      |                                 |
| 12... | 37                                       | 1.2                                                  | 1.6                                                | 1.2                                       | --                                                   | --                              |
| FEB.  |                                          |                                                      |                                                    |                                           |                                                      |                                 |
| 25... | 51                                       | .90                                                  | 3.4                                                | 1.8                                       | 16                                                   | 149                             |
| MAR.  |                                          |                                                      |                                                    |                                           |                                                      |                                 |
| 24... | 47                                       | .80                                                  | 2.2                                                | 1.3                                       | 24                                                   | --                              |
| APR.  |                                          |                                                      |                                                    |                                           |                                                      |                                 |
| 20... | 50                                       | 1.2                                                  | 4.6                                                | 2.1                                       | 11                                                   | 152                             |
| MAY   |                                          |                                                      |                                                    |                                           |                                                      |                                 |
| 17... | 37                                       | 1.4                                                  | 1.9                                                | 1.1                                       | 13                                                   | 130                             |
| JUNE  |                                          |                                                      |                                                    |                                           |                                                      |                                 |
| 23... | 50                                       | 1.7                                                  | 3.4                                                | 2.1                                       | 11                                                   | 168                             |
| JULY  |                                          |                                                      |                                                    |                                           |                                                      |                                 |
| 26... | 47                                       | .75                                                  | 4.1                                                | 2.4                                       | 8                                                    | 158                             |
| AUG.  |                                          |                                                      |                                                    |                                           |                                                      |                                 |
| 30... | 41                                       | 3.5                                                  | 2.9                                                | 2.1                                       | 7                                                    | 156                             |



## 02204500 SOUTH RIVER NEAR MCDONOUGH, GA.

LOCATION.--Lat 33°29'48", long 84°00'53", Newton County, 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 mi<sup>2</sup> (1,180 km<sup>2</sup>).

PERIOD OF RECORD.--October 1939 to September 1960. Water years 1961-65 (annual maximum only). October 1975 to September 1976.

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. Figures of daily discharge include some flow diverted from Chattahoochee River for municipal supply.

AVERAGE DISCHARGE.--22 years, 568 ft<sup>3</sup>/s (16.1 m<sup>3</sup>/s), 16.92 in/yr (429.8 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,500 ft<sup>3</sup>/s (977 m<sup>3</sup>/s) Jan. 7, 1946, gage height, 24.7 ft (7.53 m), from rating curve extended above 25,000 ft<sup>3</sup>/s (708 m<sup>3</sup>/s); minimum daily, 54 ft<sup>3</sup>/s (1.53 m<sup>3</sup>/s) Oct. 12, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft<sup>3</sup>/s (142 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Jan. 27 | 2300 | 7420 210                                              | 16.43 5.008             | Mar. 17 | 0430 | *25000 708                                            | 23.92 7.291             |
| Mar. 14 | 0400 | 5800 164                                              | 14.50 4.420             | May 30  | 0500 | 6860 194                                              | 15.47 4.715             |

Minimum discharge, 175 ft<sup>3</sup>/s (4.96 m<sup>3</sup>/s) Sept. 20, gage height, 3.09 ft (0.942 m).

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

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 1     | 338   | 326   | 750   | 2490  | 759   | 466   | 3300  | 658   | 785   | 492   | 360   | 236  |
| 2     | 556   | 321   | 880   | 955   | 994   | 458   | 1310  | 575   | 947   | 353   | 342   | 228  |
| 3     | 391   | 320   | 640   | 741   | 741   | 449   | 947   | 457   | 986   | 349   | 327   | 254  |
| 4     | 342   | 315   | 550   | 884   | 666   | 448   | 840   | 425   | 1090  | 480   | 316   | 261  |
| 5     | 351   | 310   | 490   | 631   | 628   | 448   | 762   | 405   | 692   | 1430  | 296   | 382  |
| 6     | 1530  | 310   | 470   | 572   | 617   | 453   | 717   | 397   | 570   | 1700  | 287   | 342  |
| 7     | 685   | 350   | 460   | 569   | 628   | 484   | 690   | 424   | 512   | 1890  | 430   | 278  |
| 8     | 1680  | 520   | 460   | 841   | 561   | 431   | 654   | 470   | 480   | 728   | 357   | 256  |
| 9     | 845   | 470   | 450   | 623   | 541   | 532   | 627   | 529   | 457   | 625   | 311   | 250  |
| 10    | 522   | 420   | 495   | 531   | 526   | 838   | 598   | 429   | 637   | 863   | 276   | 241  |
| 11    | 449   | 400   | 413   | 521   | 513   | 509   | 582   | 410   | 525   | 465   | 272   | 234  |
| 12    | 410   | 500   | 402   | 574   | 504   | 487   | 566   | 420   | 457   | 380   | 256   | 212  |
| 13    | 381   | 1400  | 391   | 543   | 491   | 3320  | 596   | 387   | 412   | 373   | 245   | 208  |
| 14    | 368   | 1000  | 391   | 853   | 484   | 3610  | 548   | 461   | 382   | 353   | 250   | 210  |
| 15    | 359   | 650   | 389   | 703   | 473   | 1380  | 537   | 3640  | 377   | 344   | 318   | 230  |
| 16    | 352   | 550   | 426   | 554   | 464   | 12200 | 516   | 2220  | 373   | 340   | 1620  | 236  |
| 17    | 927   | 480   | 623   | 531   | 462   | 21400 | 500   | 772   | 368   | 340   | 597   | 219  |
| 18    | 2180  | 450   | 875   | 488   | 464   | 5300  | 490   | 567   | 368   | 333   | 366   | 197  |
| 19    | 698   | 430   | 533   | 457   | 756   | 1690  | 473   | 488   | 380   | 318   | 307   | 192  |
| 20    | 502   | 420   | 457   | 455   | 506   | 1330  | 468   | 437   | 683   | 307   | 272   | 181  |
| 21    | 447   | 500   | 444   | 466   | 464   | 1510  | 465   | 402   | 755   | 355   | 254   | 201  |
| 22    | 417   | 530   | 429   | 464   | 1040  | 1550  | 462   | 380   | 435   | 331   | 252   | 228  |
| 23    | 401   | 500   | 417   | 451   | 994   | 1040  | 452   | 382   | 373   | 300   | 243   | 195  |
| 24    | 383   | 550   | 411   | 449   | 630   | 926   | 430   | 380   | 355   | 289   | 296   | 181  |
| 25    | 370   | 500   | 406   | 449   | 565   | 865   | 443   | 360   | 355   | 302   | 256   | 188  |
| 26    | 365   | 460   | 795   | 1250  | 522   | 822   | 570   | 347   | 432   | 294   | 239   | 190  |
| 27    | 360   | 450   | 640   | 5770  | 502   | 850   | 446   | 354   | 390   | 588   | 311   | 225  |
| 28    | 363   | 450   | 486   | 3600  | 488   | 1030  | 427   | 4240  | 362   | 2430  | 331   | 221  |
| 29    | 358   | 430   | 451   | 1190  | 482   | 777   | 407   | 6440  | 392   | 1920  | 280   | 212  |
| 30    | 348   | 410   | 457   | 913   | ---   | 780   | 430   | 4550  | 463   | 475   | 300   | 302  |
| 31    | 343   | ---   | 1410  | 786   | ---   | 1320  | ---   | 1030  | ---   | 405   | 269   | ---  |
| TOTAL | 18021 | 14722 | 16891 | 30304 | 17465 | 67703 | 20253 | 33436 | 15793 | 20152 | 10836 | 6990 |
| MEAN  | 581   | 491   | 545   | 978   | 602   | 2184  | 675   | 1079  | 526   | 650   | 350   | 233  |
| MAX   | 2180  | 1400  | 1410  | 5770  | 1040  | 21400 | 3300  | 6440  | 1090  | 2430  | 1620  | 382  |
| MIN   | 338   | 310   | 389   | 449   | 462   | 431   | 407   | 347   | 355   | 289   | 239   | 181  |
| CFSM  | 1.27  | 1.08  | 1.20  | 2.14  | 1.32  | 4.79  | 1.48  | 2.37  | 1.15  | 1.43  | .77   | .51  |
| IN.   | 1.47  | 1.20  | 1.38  | 2.47  | 1.42  | 5.52  | 1.65  | 2.73  | 1.29  | 1.64  | .88   | .57  |

WTR YR 1976 TOTAL 272566 MEAN 745 MAX 21400 MIN 181 CFSM 1.63 IN 22.24

02204520 SOUTH RIVER AT SNAPPING SHOALS, GA.

LOCATION.--Lat 33°29'04", long 83°57'29", Newton County, 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 mi<sup>2</sup> (1,200 km<sup>2</sup>).

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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

| DATE      | TIME | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-----------|------|---------------|-----------------------------|------------------------------------|
| JUL 29... | 1315 | 7.0           | 26.0                        | 3.7                                |
| AUG 20... | 1345 | 6.9           | 25.5                        | 6.5                                |
| SEP 18... | 1115 | 7.0           | 20.0                        | 6.2                                |

| DATE      | TOTAL<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | TOTAL<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | TOTAL<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | TOTAL<br>SODIUM<br>(NA)<br>(MG/L) | TOTAL<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | ALKA-<br>LINITY<br>AS<br>CAC03<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(S04)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) |
|-----------|---------------------------------|-------------------------------------------|-----------------------------------------|------------------------------------------------|-----------------------------------|-----------------------------------------------|------------------------------------------|----------------------------------------------|---------------------------------------------------|------------------------------------------------------|
| JUL 29... | 2600                            | 110                                       | --                                      | --                                             | 6.9                               | 2.7                                           | 19                                       | 8.0                                          | 6.7                                               | 1.3                                                  |
| AUG 20... | 1100                            | 70                                        | 5.4                                     | 2.0                                            | 9.1                               | 2.8                                           | 21                                       | 9.0                                          | 9.3                                               | 2.0                                                  |
| SEP 18... | 4800                            | 50                                        | 5.7                                     | --                                             | 13                                | 3.5                                           | 26                                       | 12                                           | 12                                                | 2.0                                                  |

| DATE      | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | TOTAL<br>REST-<br>DUE<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|-----------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|---------------------------------|------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| JUL 29... | <.02                                               | .45                                       | --                                                   | --                              | 20                                 | 83                                                         | 80                                           | 56                           | 1.0                                                          | 930                                              | 4.0                                         |
| AUG 20... | 1.0                                                | .67                                       | 14                                                   | 106                             | 22                                 | 116                                                        | 25                                           | 16                           | 1.4                                                          | 4300                                             | 7.0                                         |
| SEP 18... | .11                                                | 1.4                                       | 205                                                  | 292                             | 24                                 | 132                                                        | 40                                           | 210                          | 3.9                                                          | 93000                                            | 9.0                                         |

## ALTAMAHA RIVER BASIN

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT   |      |                                               |               |                             |                                    |
| 20... | 1130 | 488                                           | 7.1           | 13.0                        | 5.4                                |
| NOV   |      |                                               |               |                             |                                    |
| 17... | 1310 | 460                                           | 7.1           | 9.0                         | 9.8                                |
| DEC   |      |                                               |               |                             |                                    |
| 15... | 1215 | 393                                           | 7.0           | 10.0                        | 10.0                               |
| JAN   |      |                                               |               |                             |                                    |
| 15... | 1025 | 670                                           | 6.8           | 6.0                         | 9.6                                |
| FEB   |      |                                               |               |                             |                                    |
| 11... | 0940 | 513                                           | 6.8           | 9.0                         | 9.1                                |
| MAR   |      |                                               |               |                             |                                    |
| 09... | 0925 | 760                                           | 6.9           | 10.0                        | 7.3                                |
| APR   |      |                                               |               |                             |                                    |
| 05... | 1130 | 724                                           | 6.9           | --                          | --                                 |
| MAY   |      |                                               |               |                             |                                    |
| 03... | 0925 | 430                                           | 6.9           | 15.5                        | 6.4                                |
| JUN   |      |                                               |               |                             |                                    |
| 07... | 0935 | 515                                           | 7.0           | 17.0                        | 6.2                                |
| JUL   |      |                                               |               |                             |                                    |
| 13... | 1030 | 380                                           | 6.9           | 24.0                        | 5.6                                |
| AUG   |      |                                               |               |                             |                                    |
| 17... | 0900 | 600                                           | 6.9           | 22.0                        | 5.6                                |
| SEP   |      |                                               |               |                             |                                    |
| 13... | 1115 | 208                                           | 7.0           | 14.0                        | 7.8                                |

| DATE  | TOTAL<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | TOTAL<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | TOTAL<br>MAG-<br>NE-<br>SIUM<br>(MG) | TOTAL<br>SODIUM<br>(NA)<br>(MG/L) | TOTAL<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) |
|-------|---------------------------------|-------------------------------------------|-----------------------------------------|--------------------------------------|-----------------------------------|-----------------------------------------------|------------------------------------------|----------------------------------------------|---------------------------------------------------|------------------------------------------------------|
| OCT.  |                                 |                                           |                                         |                                      |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 20... | 1500                            | 120                                       | 5.3                                     | 1.9                                  | 7.2                               | 2.9                                           | 22                                       | 8.0                                          | 7.0                                               | 1.1                                                  |
| NOV.  |                                 |                                           |                                         |                                      |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 17... | 1120                            | 100                                       | 6.4                                     | 2.1                                  | 10                                | 3.0                                           | 25                                       | 10                                           | 8.3                                               | 1.2                                                  |
| DEC.  |                                 |                                           |                                         |                                      |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 15... | 930                             | 130                                       | 5.7                                     | 2.0                                  | 10                                | 2.3                                           | 26                                       | 10                                           | 10                                                | 1.7                                                  |
| JAN.  |                                 |                                           |                                         |                                      |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 15... | 4400                            | 300                                       | 5.4                                     | 1.9                                  | 5.1                               | 2.1                                           | 17                                       | 15                                           | 5.0                                               | .70                                                  |
| FEB.  |                                 |                                           |                                         |                                      |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 11... | 1050                            | 190                                       | 5.9                                     | 2.0                                  | 8.5                               | 2.4                                           | 21                                       | 7.5                                          | 7.3                                               | 1.3                                                  |
| MAR.  |                                 |                                           |                                         |                                      |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 09... | 1190                            | 230                                       | 7.2                                     | 2.0                                  | 9.0                               | 2.4                                           | 22                                       | --                                           | --                                                | 1.5                                                  |
| APR.  |                                 |                                           |                                         |                                      |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 05... | --                              | --                                        | --                                      | --                                   | --                                | --                                            | 19                                       | --                                           | --                                                | 1.2                                                  |
| MAY   |                                 |                                           |                                         |                                      |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 03... | 1250                            | 200                                       | 5.4                                     | 1.8                                  | 7.4                               | 2.3                                           | 20                                       | 8.0                                          | 6.0                                               | 1.4                                                  |
| JUNE  |                                 |                                           |                                         |                                      |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 07... | 1300                            | 170                                       | 6.4                                     | 2.1                                  | 9.0                               | 2.6                                           | 22                                       | 7.0                                          | 7.0                                               | 1.3                                                  |
| JULY  |                                 |                                           |                                         |                                      |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 13... | 1130                            | 110                                       | 6.0                                     | 1.9                                  | 9.8                               | 2.9                                           | 20                                       | 9.0                                          | 9.3                                               | 1.6                                                  |
| AUG.  |                                 |                                           |                                         |                                      |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 17... | 6700                            | 220                                       | 3.7                                     | 1.4                                  | 4.0                               | 3.0                                           | 10                                       | 6.0                                          | 4.5                                               | .88                                                  |
| SEP.  |                                 |                                           |                                         |                                      |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 13... | --                              | --                                        | --                                      | --                                   | --                                | --                                            | 27                                       | --                                           | --                                                | 2.8                                                  |



## ALTAMAHA RIVER BASIN

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | TOTAL<br>RESI-<br>DUE<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPF-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TURB-<br>IDITY<br>(JTU) | RIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|---------------------------------|------------------------------------|------------------------------------------------------------|----------------------------------------------|-------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>20... | .05                                                | .23                                       | 21                                                   | 126                             | 24                                 | 91                                                         | 40                                           | 22                      | 1.6                                                          | 150000                                           | 5.0                                         |
| NOV.<br>17... | .13                                                | .60                                       | 11                                                   | 98                              | 26                                 | 106                                                        | 30                                           | 17                      | 2.0                                                          | 2300                                             | 3.0                                         |
| DEC.<br>15... | .70                                                | .80                                       | 7                                                    | 90                              | 23                                 | 117                                                        | 20                                           | 10                      | 3.0                                                          | 9300                                             | 4.0                                         |
| JAN.<br>15... | .20                                                | .60                                       | 148                                                  | 222                             | 19                                 | 73                                                         | 100                                          | 160                     | 7.2                                                          | 43000                                            | 9.0                                         |
| FEB.<br>11... | .45                                                | .60                                       | 11                                                   | 86                              | 22                                 | 100                                                        | 15                                           | 15                      | 2.2                                                          | 36                                               | 3.0                                         |
| MAR.<br>09... | .23                                                | .61                                       | 13                                                   | 90                              | --                                 | --                                                         | 15                                           | 15                      | 2.5                                                          | 430                                              | 5.0                                         |
| APR.<br>05... | .16                                                | .37                                       | --                                                   | --                              | --                                 | --                                                         | 40                                           | 26                      | 1.4                                                          | 930                                              | 3.0                                         |
| MAY<br>03...  | .07                                                | .46                                       | 9                                                    | 88                              | 21                                 | 89                                                         | 20                                           | 18                      | 3.0                                                          | 2300                                             | 3.0                                         |
| JUNE<br>07... | .07                                                | .44                                       | 30                                                   | 108                             | 22                                 | 97                                                         | 35                                           | 28                      | 2.8                                                          | 2300                                             | 5.0                                         |
| JULY<br>13... | .05                                                | .64                                       | --                                                   | --                              | 23                                 | 106                                                        | 25                                           | 19                      | 2.2                                                          | 1390                                             | 4.0                                         |
| AUG.<br>17... | .04                                                | .46                                       | 146                                                  | 242                             | 12                                 | 57                                                         | 90                                           | 140                     | 2.8                                                          | 4300                                             | 10                                          |
| SEP.<br>13... | .05                                                | 1.3                                       | --                                                   | --                              | 25                                 | 151                                                        | 15                                           | 6                       | 2.4                                                          | 430                                              | 4.0                                         |

LOCATION.--Lat 34°00'08", long 84°00'18", Gwinnett County, 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.

GAGE.--Water-stage recorder. Altitude of gage is 970 ft (296 m), by barometer.

AVERAGE DISCHARGE.--23 years, 1.69 ft<sup>3</sup>/s (47.9 l/s), 14.43 in/yr (366.5 mm/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 806 ft<sup>3</sup>/s (22.8 m<sup>3</sup>/s) May 6, 1956, gage height, 8.20 ft (2.499 m), from rating curve extended above 45 ft<sup>3</sup>/s (1.27 m<sup>3</sup>/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 ft<sup>3</sup>/s (1.70 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge            |                     | Gage height |       | Date    | Time | Discharge            |                     | Gage height |       |
|---------|------|----------------------|---------------------|-------------|-------|---------|------|----------------------|---------------------|-------------|-------|
|         |      | (ft <sup>3</sup> /s) | (m <sup>3</sup> /s) | (ft)        | (m)   |         |      | (ft <sup>3</sup> /s) | (m <sup>3</sup> /s) | (ft)        | (m)   |
| Mar. 12 | 2145 | 118                  | 3.34                | 4.18        | 1.274 | Mar. 31 | 1600 | 151                  | 4.28                | 4.44        | 1.353 |
| Mar. 16 | 0715 | 200                  | 5.66                | 4.81        | 1.466 | May 28  | 2115 | *317                 | 8.98                | 5.49        | 1.673 |

Minimum daily discharge, 0.12 ft<sup>3</sup>/s (0.003 m<sup>3</sup>/s) Sept. 25.

| DAY         | OCT   | NOV    | DEC   | JAN   | FEB  | MAR   | APR  | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|--------|-------|-------|------|-------|------|--------|-------|-------|-------|-------|
| 1           | 3.7   | .77    | 5.3   | 4.2   | 4.2  | 2.4   | 8.1  | 1.7    | 2.2   | .94   | .53   | .18   |
| 2           | 1.4   | .78    | 2.0   | 2.5   | 3.1  | 1.9   | 4.5  | 1.2    | 3.7   | .76   | .46   | .19   |
| 3           | .90   | .78    | 1.4   | 3.7   | 2.6  | 1.3   | 3.4  | 1.0    | 2.2   | .84   | .42   | .20   |
| 4           | .82   | .75    | 1.2   | 2.4   | 2.5  | 1.2   | 2.9  | .93    | 1.9   | 2.5   | .36   | .24   |
| 5           | 4.4   | .68    | 1.2   | 2.0   | 2.4  | 1.2   | 2.5  | .87    | 1.5   | 1.8   | .34   | .25   |
| 6           | 6.1   | .71    | 1.1   | 1.7   | 2.2  | 2.4   | 2.4  | .91    | 1.3   | 2.7   | .74   | .23   |
| 7           | 3.6   | 1.1    | 1.1   | 3.5   | 2.1  | 1.5   | 2.4  | 1.2    | 1.1   | 1.8   | .72   | .27   |
| 8           | 5.1   | .87    | 1.1   | 3.1   | 2.0  | 1.4   | 2.4  | 1.4    | 1.1   | 1.1   | .49   | .23   |
| 9           | 3.2   | .80    | 1.2   | 2.1   | 1.9  | 5.9   | 2.4  | 1.1    | .99   | 1.2   | .43   | .22   |
| 10          | 2.4   | .83    | 1.1   | 2.1   | 1.8  | 3.9   | 2.4  | .99    | 1.1   | 1.0   | .39   | .20   |
| 11          | 1.9   | .77    | 1.0   | 2.3   | 1.9  | 2.6   | 2.1  | .96    | .99   | .75   | .37   | .17   |
| 12          | 1.6   | 8.3    | .97   | 2.0   | 1.8  | 17    | 1.7  | .88    | .86   | .72   | .36   | .18   |
| 13          | 1.4   | 3.3    | .94   | 2.3   | 1.8  | 14    | 1.9  | .88    | .75   | .62   | .33   | .18   |
| 14          | 1.2   | 1.9    | .88   | 2.3   | 1.7  | 4.0   | 1.8  | 15     | .75   | .58   | .28   | .19   |
| 15          | 1.1   | 1.7    | .89   | 1.7   | 1.8  | 27    | 1.4  | 24     | .76   | .51   | .38   | .25   |
| 16          | 1.0   | 1.5    | 2.5   | 1.6   | 1.5  | 62    | 1.4  |        | .75   | .57   | .35   | .21   |
| 17          | 8.7   | 1.3    | 2.0   | 1.6   | 1.5  | 6.3   | 1.3  | 2.4    | .72   | .59   | .31   | .18   |
| 18          | 5.0   | 1.2    | 1.4   | 1.4   | 1.8  | 3.9   | 1.3  | 2.2    | .71   | .52   | .27   | .17   |
| 19          | 3.1   | 1.2    | 1.2   | 1.4   | 1.6  | 3.0   | 1.2  | 2.0    | .76   | .50   | .26   | .16   |
| 20          | 2.3   | 1.5    | 1.1   | 1.5   | 1.6  | 2.9   | 1.2  | 1.8    | 1.8   | .55   | .24   | .19   |
| 21          | 1.9   | 1.8    | 1.0   | 1.3   | 2.4  | 7.7   | 1.1  | 1.5    | .95   | .52   | .24   | .21   |
| 22          | 1.5   | 1.2    | .97   | 1.3   | 6.8  | 3.4   | 1.1  | 1.4    | .81   | .45   | .25   | .18   |
| 23          | 1.4   | 1.8    | .96   | 1.3   | 4.7  | 2.7   | 1.0  | 1.6    | .75   | .43   | .24   | .14   |
| 24          | 1.3   | 1.4    | .90   | 1.4   | 3.2  | 2.6   | 1.0  | 1.4    | .74   | .37   | .22   | .13   |
| 25          | 1.2   | 1.3    | 1.5   | 1.4   | 2.6  | 2.5   | 1.2  | 1.3    | .70   | .36   | .21   | .12   |
| 26          | 1.1   | 1.2    | 2.0   | 29    | 2.4  | 2.4   | 1.1  | 1.2    | 1.6   | .33   | .23   | .13   |
| 27          | 1.1   | 1.5    | 1.2   | 12    | 2.2  | 3.2   | 1.1  | 1.4    | .98   | 1.5   | .24   | .14   |
| 28          | 1.1   | 1.2    | 1.1   | 5.1   | 1.9  | 2.2   | 1.0  | 39     | .83   | 1.4   | .25   | .14   |
| 29          | 1.3   | 1.2    | 1.0   | 3.8   | 2.1  | 2.0   | 1.0  | 12     | .81   | .61   | .21   | .85   |
| 30          | 1.1   | 1.9    | 2.3   | 3.0   | ---  | 9.2   | 1.3  | 3.3    | 2.1   | 1.0   | .20   | .30   |
| 31          | .84   | ---    | 12    | 2.5   | ---  | 33    | ---  | 2.1    | ---   | .73   | .19   | ---   |
| TOTAL       | 72.76 | 45.24  | 54.51 | 107.5 | 70.1 | 236.7 | 59.6 | 131.12 | 36.21 | 28.25 | 10.51 | 6.43  |
| MEAN        | 2.35  | 1.51   | 1.76  | 3.47  | 2.42 | 7.64  | 1.99 | 4.23   | 1.21  | .91   | .34   | .21   |
| MAX         | 8.7   | 8.3    | 12    | 29    | 6.8  | 62    | 8.1  | 39     | 3.7   | 2.7   | .74   | .85   |
| MIN         | .82   | .68    | .88   | 1.3   | 1.5  | 1.2   | 1.0  | .87    | .70   | .33   | .19   | .12   |
| CFSM        | 1.48  | .95    | 1.11  | 2.18  | 1.52 | 4.81  | 1.25 | 2.66   | .76   | .57   | .21   | .13   |
| IN.         | 1.70  | 1.06   | 1.27  | 2.51  | 1.64 | 5.53  | 1.39 | 3.07   | .85   | .66   | .25   | .15   |
| CAL YR 1975 | TOTAL | 986.88 | MEAN  | 2.70  | MAX  | 67    | MIN  | .50    | CFSM  | 1.70  | IN    | 23.07 |
| WTR YR 1976 | TOTAL | 858.93 | MEAN  | 2     |      |       |      |        |       |       |       |       |

## ALTAMAHA RIVER BASIN

02206500 YELLOW RIVER NEAR SNELLVILLE, GA.

LOCATION.--Lat 33°51'11", long 84°04'45", Gwinnett County, 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 mi<sup>2</sup> (347 km<sup>2</sup>).

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, 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 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|------------------------------------------|---------------|-----------------------------|------------------------------------|
| DEC.<br>09... | 0845 | 148                                      | 6.7           | 9.0                         | 11.2                               |
| FEB.<br>25... | 1225 | 168                                      | 7.0           | 8.5                         | 11.4                               |
| MAR.<br>24... | 1630 | 230                                      | 7.1           | 11.0                        | 10.5                               |
| MAY<br>17...  | 1315 | 375                                      | 7.0           | 18.0                        | 8.5                                |
| JULY<br>26... | 1200 | 84                                       | 7.4           | 25.0                        | 7.9                                |
| AUG.<br>30... | 0800 | 51                                       | 7.1           | 22.0                        | 7.2                                |

| DATE          | ALKA-<br>LINITY<br>AS<br>CaCO <sub>3</sub><br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) |
|---------------|------------------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|
| DEC.<br>09... | 22                                                   | .29                                                  | .05                                                | .07                                       | 19                                  |
| FEB.<br>25... | 20                                                   | .32                                                  | .03                                                | .08                                       | 18                                  |
| MAR.<br>24... | 16                                                   | .30                                                  | .05                                                | .08                                       | 14                                  |
| MAY<br>17...  | 16                                                   | .24                                                  | .02                                                | .09                                       | 14                                  |
| JULY<br>26... | 25                                                   | .52                                                  | <.02                                               | .09                                       | 20                                  |
| AUG.<br>30... | 18                                                   | .48                                                  | <.02                                               | .10                                       | 22                                  |

| DATE          | SPF-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>CORAL<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|---------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| DEC.<br>09... | 65                                                         | 20                                          | 14                           | .7                                                           | 230                                              | 2.0                                         |
| FEB.<br>25... | 60                                                         | 35                                          | 20                           | --                                                           | 930                                              | 3.0                                         |
| MAR.<br>24... | 51                                                         | 70                                          | 33                           | .4                                                           | 930                                              | 3.0                                         |
| MAY<br>17...  | 48                                                         | 80                                          | 58                           | 1.1                                                          | 430                                              | 4.0                                         |
| JULY<br>26... | 71                                                         | 10                                          | 9                            | .2                                                           | 91                                               | 3.0                                         |
| AUG.<br>30... | 76                                                         | 20                                          | 11                           | .4                                                           | 430                                              | 3.0                                         |

## ALTAMAHA RIVER BASIN

91

02207300 YELLOW RIVER AT MILSTEAD, GA.

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

DRAINAGE AREA.--210 mi<sup>2</sup> (540 km<sup>2</sup>), 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME                            | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS)  | PH<br>(UNITS)                                        | TEMPER-<br>ATURE<br>(DEG C)                          | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L)                 |                                           |                                     |
|---------------|---------------------------------|-------------------------------------------|------------------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|
| OCT.<br>20... | 0815                            | 316                                       | 7.1                                                  | 13.0                                                 | 9.3                                                |                                           |                                     |
| NOV.<br>17... | 1050                            | 226                                       | 7.1                                                  | 8.5                                                  | 10.6                                               |                                           |                                     |
| DEC.<br>15... | 0945                            | 216                                       | 7.0                                                  | 8.0                                                  | 10.7                                               |                                           |                                     |
| JAN.<br>12... | 0930                            | 270                                       | 7.0                                                  | 4.0                                                  | 12.0                                               |                                           |                                     |
| FEB.<br>25... | 0910                            | 271                                       | 7.1                                                  | 8.0                                                  | 11.0                                               |                                           |                                     |
| MAR.<br>24... | 1530                            | 313                                       | 7.1                                                  | 12.0                                                 | 11.8                                               |                                           |                                     |
| APR.<br>20... | 1345                            | 270                                       | 7.3                                                  | 18.0                                                 | 8.5                                                |                                           |                                     |
| MAY<br>17...  | 1200                            | 370                                       | 7.0                                                  | 19.0                                                 | 7.8                                                |                                           |                                     |
| JUNE<br>23... | 0820                            | 250                                       | 7.1                                                  | 20.0                                                 | 6.7                                                |                                           |                                     |
| JULY<br>26... | 1040                            | 180                                       | 7.3                                                  | 25.5                                                 | 6.7                                                |                                           |                                     |
| AUG.<br>30... | 0900                            | 80                                        | 7.1                                                  | 23.5                                                 | 6.4                                                |                                           |                                     |
| DATE          | TOTAL<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | ALKA-<br>LINITY<br>AS<br>CaCO <sub>3</sub><br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) |
| OCT.<br>20... | 1600                            | 160                                       | 20                                                   | .14                                                  | .03                                                | <.02                                      | 18                                  |
| NOV.<br>17... | 1020                            | 110                                       | 19                                                   | .20                                                  | .02                                                | .40                                       | 18                                  |
| DEC.<br>15... | 980                             | 120                                       | 19                                                   | .33                                                  | .02                                                | .05                                       | 17                                  |
| JAN.<br>12... | 1000                            | 140                                       | 18                                                   | .33                                                  | .08                                                | .05                                       | 16                                  |
| FEB.<br>25... | 800                             | 80                                        | 17                                                   | .33                                                  | <.02                                               | .04                                       | 16                                  |
| MAR.<br>24... | 1600                            | 130                                       | 13                                                   | .27                                                  | .02                                                | .05                                       | 12                                  |
| APR.<br>20... | 820                             | 80                                        | 18                                                   | .25                                                  | <.02                                               | .05                                       | 16                                  |
| MAY<br>17...  | 1300                            | 270                                       | 14                                                   | .18                                                  | <.02                                               | .08                                       | 12                                  |
| JUNE<br>23... | 900                             | 80                                        | 20                                                   | .28                                                  | <.02                                               | .04                                       | 16                                  |
| JULY<br>26... | 970                             | 130                                       | 23                                                   | .25                                                  | <.02                                               | <.02                                      | 18                                  |
| AUG.<br>30... | 1100                            | 220                                       | 22                                                   | .28                                                  | .02                                                | .04                                       | 20                                  |

## ALTAMAHA RIVER BASIN

02207300 YELLOW RIVER AT MILSTEAD, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | RIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | CON-<br>FIRMED<br>COLI-<br>FORM<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|------------------------------------------|---------------------------------------------|
| OCT.<br>20... | 59                                                         | 45                                           | 23                           | 1.1                                                          | 9300                                             | 9300                                     | 3.0                                         |
| NOV.<br>17... | 56                                                         | 30                                           | 15                           | .3                                                           | 230                                              | 2300                                     | 2.0                                         |
| DEC.<br>15... | 59                                                         | 20                                           | 10                           | .5                                                           | 930                                              | 930                                      | 3.0                                         |
| JAN.<br>12... | 57                                                         | 20                                           | 18                           | 6.0                                                          | 4300                                             | 4300                                     | 5.0                                         |
| FEB.<br>25... | 53                                                         | 35                                           | 21                           | --                                                           | 430                                              | 9300                                     | 3.0                                         |
| MAR.<br>24... | 46                                                         | 70                                           | 36                           | .6                                                           | 430                                              | 2300                                     | 3.0                                         |
| APR.<br>20... | 52                                                         | 15                                           | 13                           | 1.6                                                          | 430                                              | --                                       | 3.0                                         |
| MAY<br>17...  | 44                                                         | 80                                           | 62                           | 1.5                                                          | 2300                                             | --                                       | 5.0                                         |
| JUNE<br>23... | 57                                                         | 30                                           | 13                           | .6                                                           | 9300                                             | 23000                                    | 3.0                                         |
| JULY<br>26... | 62                                                         | 5                                            | 9                            | .5                                                           | 230                                              | 2300                                     | 3.0                                         |
| AUG.<br>30... | 68                                                         | 20                                           | 17                           | .6                                                           | 930                                              | 3900                                     | 3.0                                         |



02207500 YELLOW RIVER NEAR COVINGTON, GA.

LOCATION.--Lat 33°36'52", long 83°54'54", Newton County, 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 mi<sup>2</sup> (979 km<sup>2</sup>).

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.--19 years (1899-1901, 1944-60, 1975-76), 468 ft<sup>3</sup>/s (13.3 m<sup>3</sup>/s), 16.81 in/yr (427.0 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,200 ft<sup>3</sup>/s (459 m<sup>3</sup>/s) Nov. 29, 1948, gage height, 20.3 ft (6.19 m); minimum daily, 10 ft<sup>3</sup>/s (0.28 m<sup>3</sup>/s) Oct. 7, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,500 ft<sup>3</sup>/s (99.1 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Jan. 28 | 1130 | 4800 136                                              | 13.51 4.118             | May 30 | 1030 | 5490 155                                              | 14.30 4.359             |
| Mar. 17 | 0600 | *12000 340                                            | 19.47 5.934             |        |      |                                                       |                         |

Minimum daily discharge, 78 ft<sup>3</sup>/s (2.21 m<sup>3</sup>/s) Sept. 19.

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

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG  | SEP  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 1     | 238   | 251   | 473   | 1400  | 737   | 376   | 2280  | 404   | 1230  | 387   | 269  | 132  |
| 2     | 381   | 245   | 683   | 1750  | 886   | 368   | 2790  | 424   | 1030  | 295   | 238  | 128  |
| 3     | 358   | 242   | 518   | 936   | 774   | 354   | 1520  | 364   | 1010  | 257   | 214  | 127  |
| 4     | 283   | 242   | 429   | 779   | 643   | 351   | 945   | 326   | 1240  | 294   | 196  | 126  |
| 5     | 257   | 240   | 389   | 667   | 585   | 348   | 842   | 304   | 1150  | 496   | 185  | 142  |
| 6     | 487   | 239   | 365   | 552   | 575   | 348   | 760   | 293   | 740   | 784   | 180  | 136  |
| 7     | 641   | 256   | 354   | 498   | 557   | 381   | 699   | 319   | 592   | 869   | 390  | 138  |
| 8     | 772   | 416   | 357   | 580   | 512   | 374   | 658   | 377   | 518   | 576   | 367  | 142  |
| 9     | 759   | 366   | 348   | 656   | 487   | 406   | 627   | 393   | 456   | 434   | 259  | 136  |
| 10    | 514   | 323   | 350   | 523   | 464   | 578   | 588   | 348   | 441   | 376   | 215  | 135  |
| 11    | 396   | 314   | 334   | 460   | 452   | 485   | 550   | 315   | 412   | 336   | 196  | 134  |
| 12    | 346   | 384   | 313   | 467   | 440   | 450   | 540   | 301   | 386   | 302   | 186  | 121  |
| 13    | 312   | 1100  | 303   | 486   | 423   | 1960  | 520   | 280   | 358   | 276   | 180  | 117  |
| 14    | 289   | 832   | 301   | 502   | 414   | 3110  | 500   | 357   | 332   | 255   | 178  | 114  |
| 15    | 273   | 517   | 300   | 623   | 408   | 2100  | 480   | 2060  | 319   | 236   | 183  | 112  |
| 16    | 261   | 414   | 320   | 530   | 405   | 6960  | 470   | 3050  | 310   | 233   | 401  | 118  |
| 17    | 545   | 373   | 422   | 476   | 398   | 11000 | 449   | 1640  | 299   | 223   | 376  | 100  |
| 18    | 1170  | 349   | 582   | 441   | 398   | 6960  | 431   | 833   | 288   | 217   | 265  | 90   |
| 19    | 750   | 331   | 498   | 398   | 475   | 2810  | 418   | 611   | 290   | 207   | 212  | 78   |
| 20    | 493   | 324   | 399   | 375   | 434   | 1660  | 404   | 508   | 517   | 201   | 184  | 84   |
| 21    | 404   | 386   | 366   | 380   | 396   | 1430  | 393   | 451   | 577   | 201   | 170  | 103  |
| 22    | 363   | 416   | 351   | 381   | 631   | 1550  | 387   | 413   | 405   | 197   | 166  | 88   |
| 23    | 330   | 397   | 335   | 371   | 788   | 1190  | 374   | 391   | 338   | 193   | 163  | 96   |
| 24    | 311   | 436   | 322   | 366   | 573   | 970   | 357   | 383   | 312   | 190   | 163  | 92   |
| 25    | 297   | 347   | 314   | 365   | 484   | 895   | 367   | 369   | 312   | 193   | 170  | 88   |
| 26    | 288   | 360   | 406   | 724   | 446   | 839   | 389   | 366   | 306   | 183   | 156  | 94   |
| 27    | 286   | 350   | 525   | 2980  | 424   | 832   | 356   | 364   | 350   | 245   | 158  | 100  |
| 28    | 280   | 356   | 426   | 4520  | 405   | 890   | 333   | 1740  | 311   | 786   | 158  | 112  |
| 29    | 275   | 334   | 380   | 2300  | 389   | 776   | 322   | 3650  | 283   | 696   | 161  | 120  |
| 30    | 276   | 320   | 364   | 1150  | ---   | 798   | 331   | 5370  | 294   | 393   | 156  | 135  |
| 31    | 264   | ---   | 467   | 829   | ---   | 1240  | ---   | 3490  | ---   | 315   | 147  | ---  |
| TOTAL | 12899 | 11510 | 12294 | 27465 | 15003 | 52789 | 20120 | 30494 | 15406 | 10846 | 6642 | 3438 |
| MEAN  | 416   | 384   | 397   | 886   | 517   | 1703  | 671   | 984   | 514   | 350   | 214  | 115  |
| MAX   | 1170  | 1100  | 683   | 4520  | 886   | 11000 | 2790  | 5370  | 1240  | 869   | 401  | 142  |
| MIN   | 238   | 239   | 300   | 365   | 389   | 348   | 322   | 280   | 283   | 183   | 147  | 78   |
| CFSM  | 1.10  | 1.02  | 1.05  | 2.34  | 1.37  | 4.51  | 1.78  | 2.60  | 1.36  | .93   | .57  | .30  |
| IN.   | 1.27  | 1.13  | 1.21  | 2.70  | 1.48  | 5.20  | 1.98  | 3.00  | 1.52  | 1.07  | .65  | .34  |

WTR YR 1976 TOTAL 218906 MEAN 598 MAX 11000 MIN 78 CFSM 1.58 IN 21.54

## ALTAMAHA RIVER BASIN

02207540 YELLOW RIVER AT PORTERDALE, GA.

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

DRAINAGE AREA.--400 mi<sup>2</sup> (1,040 km<sup>2</sup>), 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                          |               |                             |                                    |
| 20... | 1000 | 568                                      | 7.1           | 13.0                        | 9.6                                |
| NOV.  |      |                                          |               |                             |                                    |
| 17... | 1215 | 444                                      | 7.1           | 8.5                         | 10.8                               |
| DEC.  |      |                                          |               |                             |                                    |
| 15... | 1100 | 339                                      | 7.0           | 8.5                         | 10.0                               |
| JAN.  |      |                                          |               |                             |                                    |
| 15... | 0945 | 682                                      | 6.9           | 3.0                         | 10.7                               |
| FEB.  |      |                                          |               |                             |                                    |
| 11... | 0845 | 548                                      | 6.8           | 8.0                         | 10.8                               |
| MAR.  |      |                                          |               |                             |                                    |
| 09... | 0840 | 780                                      | 7.0           | 10.0                        | 9.3                                |
| APR.  |      |                                          |               |                             |                                    |
| 05... | 1040 | 780                                      | 7.0           | 12.0                        | 8.8                                |
| MAY   |      |                                          |               |                             |                                    |
| 03... | 0815 | 381                                      | 7.1           | 15.0                        | 7.6                                |
| JUNE  |      |                                          |               |                             |                                    |
| 07... | 0850 | 888                                      | 6.9           | 17.0                        | 7.1                                |
| JULY  |      |                                          |               |                             |                                    |
| 13... | 0945 | 244                                      | 7.0           | 25.0                        | 6.1                                |
| AUG.  |      |                                          |               |                             |                                    |
| 17... | 0800 | 556                                      | 6.9           | 22.0                        | 6.4                                |
| SEP.  |      |                                          |               |                             |                                    |
| 13... | 1030 | 120                                      | 7.1           | 19.0                        | 7.6                                |

| DATE  | TOTAL<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) |
|-------|---------------------------------|-------------------------------------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| OCT.  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                    |
| 20... | 1900                            | 170                                       | 17                                       | .14                                                  | .04                                                | <.02                                      | 14                                 |
| NOV.  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                    |
| 17... | 1190                            | 100                                       | 17                                       | .24                                                  | .02                                                | .30                                       | 15                                 |
| DEC.  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                    |
| 15... | 830                             | 90                                        | 18                                       | .41                                                  | .03                                                | .05                                       | 15                                 |
| JAN.  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                    |
| 15... | 2300                            | 160                                       | 13                                       | .35                                                  | .10                                                | .11                                       | 13                                 |
| FEB.  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                    |
| 11... | 1160                            | 90                                        | 14                                       | .42                                                  | .04                                                | .05                                       | 13                                 |
| MAR.  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                    |
| 09... | 1130                            | 100                                       | 16                                       | .35                                                  | <.02                                               | .07                                       | 16                                 |
| APR.  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                    |
| 05... | 1500                            | 140                                       | 15                                       | .30                                                  | .03                                                | .06                                       | 12                                 |
| MAY   |                                 |                                           |                                          |                                                      |                                                    |                                           |                                    |
| 03... | 800                             | 70                                        | 16                                       | .35                                                  | <.02                                               | .04                                       | 14                                 |
| JUNE  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                    |
| 07... | 1500                            | 130                                       | 14                                       | .25                                                  | <.02                                               | .05                                       | 13                                 |
| JULY  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                    |
| 13... | 780                             | 90                                        | 16                                       | .33                                                  | <.02                                               | .03                                       | 14                                 |
| AUG.  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                    |
| 17... | 5800                            | 160                                       | 14                                       | .34                                                  | <.02                                               | .14                                       | 13                                 |
| SEP.  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                    |
| 13... | --                              | --                                        | 20                                       | .39                                                  | .03                                                | .07                                       | 18                                 |

02207540 YELLOW RIVER AT PORTERDALE, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | RIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | CON-<br>FIRMED<br>COLI-<br>FORM<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|------------------------------------------|---------------------------------------------|
| OCT.<br>20... | 52                                                         | 50                                           | 26                           | .7                                                           | 2300                                             | 2300                                     | 3.0                                         |
| NOV.<br>17... | 50                                                         | 40                                           | 16                           | .5                                                           | 430                                              | 2300                                     | 2.0                                         |
| DEC.<br>15... | 55                                                         | 20                                           | 10                           | 4.0                                                          | 2300                                             | 2300                                     | 2.0                                         |
| JAN.<br>15... | 48                                                         | 60                                           | 60                           | .7                                                           | 2300                                             | 4300                                     | 3.0                                         |
| FEB.<br>11... | 49                                                         | 30                                           | 20                           | .4                                                           | 2300                                             | 43000                                    | 2.0                                         |
| MAR.<br>09... | 55                                                         | 15                                           | 17                           | .5                                                           | 2300                                             | 9300                                     | 3.0                                         |
| APR.<br>05... | 44                                                         | 50                                           | 38                           | .6                                                           | 930                                              | 15000                                    | 3.0                                         |
| MAY<br>03...  | 51                                                         | 30                                           | 16                           | .8                                                           | 430                                              | 9300                                     | 4.0                                         |
| JUNE<br>07... | 45                                                         | 40                                           | 32                           | .6                                                           | 430                                              | 9300                                     | 3.0                                         |
| JULY<br>13... | 51                                                         | 15                                           | 15                           | .4                                                           | 930                                              | 2300                                     | 2.0                                         |
| AUG.<br>17... | 48                                                         | 120                                          | 130                          | 1.1                                                          | 2300                                             | 23000                                    | 10                                          |
| SEP.<br>13... | 64                                                         | 25                                           | 17                           | .5                                                           | 430                                              | 4300                                     | 6.0                                         |

## ALTAMAHA RIVER BASIN

02208005 YELLOW RIVER NEAR STEWART, GA.

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

DRAINAGE AREA.--440 mi<sup>2</sup> (1,140 km<sup>2</sup>), 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                               |               |                             |                                    |
| 20... | 1225 | 620                                           | 7.0           | 14.0                        | 6.8                                |
| NOV.  |      |                                               |               |                             |                                    |
| 12... | 1340 | 1040                                          | 7.3           | 9.0                         | 11.0                               |
| DEC.  |      |                                               |               |                             |                                    |
| 15... | 1245 | 844                                           | 7.1           | 9.0                         | 11.0                               |
| JAN.  |      |                                               |               |                             |                                    |
| 15... | 1110 | 1520                                          | 6.9           | 5.0                         | 11.9                               |
| FEB.  |      |                                               |               |                             |                                    |
| 11... | 1005 | 420                                           | 6.7           | 8.0                         | 10.8                               |
| MAR.  |      |                                               |               |                             |                                    |
| 09... | 1005 | 270                                           | 7.0           | 10.0                        | 9.8                                |
| APR.  |      |                                               |               |                             |                                    |
| 05... | 1215 | 1950                                          | 7.0           | --                          | --                                 |
| MAY   |      |                                               |               |                             |                                    |
| 03... | 0945 | 804                                           | 7.2           | 15.5                        | 9.0                                |
| JUNE  |      |                                               |               |                             |                                    |
| 07... | 1000 | 1640                                          | 7.1           | 17.0                        | 7.9                                |
| JULY  |      |                                               |               |                             |                                    |
| 13... | 1100 | 1050                                          | 7.2           | 25.0                        | 7.0                                |
| AUG.  |      |                                               |               |                             |                                    |
| 17... | 0940 | 1510                                          | 7.1           | 22.5                        | 7.1                                |
| SEP.  |      |                                               |               |                             |                                    |
| 13... | 1145 | 1420                                          | 7.2           | 18.0                        | 8.7                                |

| DATE  | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) |
|-------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| OCT.  |                                          |                                                      |                                                    |                                           |                                    |
| 20... | 17                                       | .15                                                  | <.02                                               | .11                                       | 14                                 |
| NOV.  |                                          |                                                      |                                                    |                                           |                                    |
| 12... | 16                                       | .25                                                  | <.02                                               | .08                                       | 15                                 |
| DEC.  |                                          |                                                      |                                                    |                                           |                                    |
| 15... | 17                                       | .50                                                  | .02                                                | .10                                       | 14                                 |
| JAN.  |                                          |                                                      |                                                    |                                           |                                    |
| 15... | 15                                       | .38                                                  | .06                                                | .13                                       | 12                                 |
| FEB.  |                                          |                                                      |                                                    |                                           |                                    |
| 11... | 14                                       | .47                                                  | .04                                                | .09                                       | 12                                 |
| MAR.  |                                          |                                                      |                                                    |                                           |                                    |
| 09... | 16                                       | .45                                                  | <.02                                               | .13                                       | 16                                 |
| APR.  |                                          |                                                      |                                                    |                                           |                                    |
| 05... | 13                                       | .29                                                  | .02                                                | .09                                       | 12                                 |
| MAY   |                                          |                                                      |                                                    |                                           |                                    |
| 03... | 17                                       | .41                                                  | <.02                                               | .09                                       | 15                                 |
| JUNE  |                                          |                                                      |                                                    |                                           |                                    |
| 07... | 15                                       | .27                                                  | <.02                                               | .09                                       | 13                                 |
| JULY  |                                          |                                                      |                                                    |                                           |                                    |
| 13... | 17                                       | .41                                                  | <.02                                               | .12                                       | 15                                 |
| AUG.  |                                          |                                                      |                                                    |                                           |                                    |
| 17... | 17                                       | .43                                                  | <.02                                               | .26                                       | 16                                 |
| SEP.  |                                          |                                                      |                                                    |                                           |                                    |
| 13... | 20                                       | .42                                                  | <.02                                               | .24                                       | 17                                 |

## ALTAMAHA RIVER BASIN

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02208005 YELLOW RIVER NEAR STEWART, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>20... | 52                                                         | 45                                           | 33                           | 1.2                                                          | 4300                                             | 10                                          |
| NOV.<br>12... | 51                                                         | 30                                           | 18                           | .5                                                           | 150                                              | 2.0                                         |
| DEC.<br>15... | 57                                                         | 10                                           | 11                           | .3                                                           | 91                                               | 2.0                                         |
| JAN.<br>15... | 50                                                         | 30                                           | 35                           | .8                                                           | 2300                                             | 3.0                                         |
| FEB.<br>11... | 50                                                         | 25                                           | 20                           | .4                                                           | 150                                              | 2.0                                         |
| MAR.<br>09... | 55                                                         | 15                                           | 20                           | .7                                                           | 930                                              | 3.0                                         |
| APR.<br>05... | 45                                                         | 50                                           | 38                           | .4                                                           | 4300                                             | 3.0                                         |
| MAY<br>03...  | 53                                                         | 20                                           | 16                           | .7                                                           | 230                                              | 2.0                                         |
| JUNE<br>07... | 47                                                         | 45                                           | 37                           | .8                                                           | 430                                              | 3.0                                         |
| JULY<br>13... | 55                                                         | 15                                           | 15                           | .7                                                           | 2300                                             | 3.0                                         |
| AUG.<br>17... | 59                                                         | 105                                          | 85                           | 1.2                                                          | 4300                                             | 7.0                                         |
| SEP.<br>13... | 67                                                         | 15                                           | 16                           | .3                                                           | 210                                              | 3.0                                         |

02208450 ALCOVY RIVER ABOVE COVINGTON, GA.

LOCATION.--Lat 33°38'24", long 83°46'45", Newton County, 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) north-east of Covington.

DRAINAGE AREA.--185 mi<sup>2</sup> (479 km<sup>2</sup>), 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,530 ft<sup>3</sup>/s (185 m<sup>3</sup>/s) Mar. 16, 1976, gage height, 14.79 ft (4.508); minimum daily, 25 ft<sup>3</sup>/s (.71 m<sup>3</sup>/s) Sept. 17, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,800 ft<sup>3</sup>/s (51.0 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|
| Mar. 16 | 2200 | *6530 185                                             | 14.79 4.508             |

Minimum discharge, 40 ft<sup>3</sup>/s (1.13 m<sup>3</sup>/s) Sept. 14, gage height, 3.33 ft (1.015 m).

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

| DAY         | OCT   | NOV    | DEC  | JAN   | FEB  | MAR   | APR  | MAY   | JUN  | JUL  | AUG  | SEP   |
|-------------|-------|--------|------|-------|------|-------|------|-------|------|------|------|-------|
| 1           | 137   | 139    | 201  | 300   | 423  | 188   | 847  | 210   | 580  | 172  | 131  | 63    |
| 2           | 154   | 137    | 256  | 382   | 429  | 183   | 831  | 216   | 384  | 170  | 109  | 56    |
| 3           | 197   | 136    | 261  | 549   | 406  | 176   | 805  | 194   | 342  | 152  | 94   | 52    |
| 4           | 194   | 135    | 242  | 454   | 356  | 175   | 546  | 165   | 494  | 159  | 84   | 60    |
| 5           | 158   | 134    | 210  | 342   | 313  | 177   | 436  | 151   | 540  | 251  | 80   | 70    |
| 6           | 156   | 131    | 193  | 294   | 292  | 174   | 319  | 144   | 370  | 306  | 78   | 78    |
| 7           | 169   | 140    | 185  | 267   | 277  | 177   | 346  | 180   | 279  | 440  | 118  | 67    |
| 8           | 337   | 190    | 184  | 295   | 262  | 178   | 323  | 181   | 237  | 354  | 128  | 59    |
| 9           | 448   | 258    | 181  | 290   | 249  | 221   | 303  | 212   | 213  | 276  | 131  | 57    |
| 10          | 379   | 244    | 178  | 269   | 238  | 260   | 243  | 199   | 205  | 236  | 101  | 54    |
| 11          | 305   | 201    | 173  | 246   | 225  | 242   | 269  | 175   | 236  | 213  | 89   | 53    |
| 12          | 233   | 206    | 163  | 241   | 219  | 236   | 259  | 164   | 204  | 188  | 78   | 49    |
| 13          | 192   | 258    | 158  | 234   | 212  | 831   | 247  | 149   | 213  | 155  | 80   | 47    |
| 14          | 169   | 326    | 156  | 249   | 206  | 1080  | 243  | 190   | 182  | 146  | 80   | 44    |
| 15          | 158   | 370    | 153  | 256   | 203  | 945   | 234  | 1270  | 169  | 128  | 88   | 77    |
| 16          | 154   | 304    | 168  | 243   | 204  | 4360  | 224  | 1420  | 162  | 122  | 236  | 89    |
| 17          | 205   | 233    | 205  | 223   | 198  | 5090  | 215  | 1200  | 157  | 116  | 141  | 75    |
| 18          | 365   | 202    | 268  | 205   | 199  | 2770  | 206  | 693   | 154  | 112  | 93   | 62    |
| 19          | 424   | 186    | 261  | 189   | 221  | 1130  | 200  | 407   | 152  | 108  | 77   | 55    |
| 20          | 392   | 180    | 219  | 176   | 238  | 715   | 191  | 296   | 198  | 133  | 66   | 51    |
| 21          | 293   | 193    | 194  | 179   | 211  | 600   | 145  | 249   | 280  | 168  | 62   | 52    |
| 22          | 229   | 212    | 183  | 182   | 298  | 553   | 178  | 220   | 265  | 123  | 70   | 55    |
| 23          | 195   | 225    | 172  | 177   | 368  | 515   | 171  | 209   | 208  | 107  | 66   | 55    |
| 24          | 176   | 236    | 162  | 173   | 331  | 472   | 166  | 203   | 331  | 103  | 66   | 48    |
| 25          | 166   | 224    | 160  | 171   | 269  | 411   | 169  | 190   | 320  | 97   | 72   | 44    |
| 26          | 161   | 204    | 212  | 266   | 229  | 378   | 184  | 176   | 215  | 94   | 66   | 47    |
| 27          | 159   | 192    | 250  | 762   | 213  | 366   | 175  | 169   | 191  | 95   | 111  | 53    |
| 28          | 157   | 192    | 231  | 1340  | 203  | 365   | 158  | 380   | 178  | 184  | 103  | 71    |
| 29          | 155   | 186    | 204  | 1250  | 194  | 353   | 156  | 729   | 168  | 199  | 91   | 66    |
| 30          | 148   | 174    | 198  | 706   | ---  | 348   | 164  | 795   | 165  | 143  | 81   | 76    |
| 31          | 145   | ---    | 233  | 499   | ---  | 527   | ---  | 977   | ---  | 147  | 71   | ---   |
| TOTAL       | 6910  | 6148   | 6214 | 11409 | 7686 | 24196 | 9093 | 12113 | 7792 | 5397 | 2941 | 1785  |
| MEAN        | 223   | 205    | 200  | 368   | 265  | 781   | 303  | 391   | 260  | 174  | 94.9 | 59.5  |
| MAX         | 448   | 370    | 268  | 1340  | 429  | 5090  | 847  | 1420  | 580  | 440  | 236  | 89    |
| MIN         | 137   | 131    | 153  | 171   | 194  | 174   | 156  | 144   | 152  | 94   | 62   | 44    |
| CFSM        | 1.21  | 1.11   | 1.08 | 1.99  | 1.43 | 4.22  | 1.64 | 2.11  | 1.41 | .94  | .51  | .32   |
| IN.         | 1.39  | 1.24   | 1.25 | 2.29  | 1.55 | 4.87  | 1.83 | 2.44  | 1.57 | 1.09 | .59  | .36   |
| CAL YR 1975 | TOTAL | 135210 | MEAN | 370   | MAX  | 3640  | MIN  | 76    | CFSM | 2.00 | IN   | 27.19 |
| WTR YR 1976 | TOTAL | 101684 | MEAN | 278   | MAX  | 5090  | MIN  | 44    | CFSM | 1.50 | IN   | 20.45 |



02208450 ALCOVY RIVER ABOVE COVINGTON, GA.--Continued

## WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: May 1972 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 26.5°C July 25, Aug. 8, 1972; minimum, 0.0°C Jan. 10, 19, 20, 1976.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 26.0°C July 25-27; minimum, 0.0°C Jan. 10, 19, 20.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | OCTOBER |      | NOVEMBER |      | DECEMBER |      | JANUARY |     | FEBRUARY |      | MARCH |      |
|-------|---------|------|----------|------|----------|------|---------|-----|----------|------|-------|------|
|       | MAX     | MIN  | MAX      | MIN  | MAX      | MIN  | MAX     | MIN | MAX      | MIN  | MAX   | MIN  |
| 1     | 19.5    | 18.5 | 13.5     | 10.5 | 12.0     | 9.5  | 9.5     | 7.0 | 8.0      | 7.0  | 15.5  | 10.5 |
| 2     | 19.5    | 18.0 | 13.5     | 10.5 | 9.0      | 7.0  | 8.5     | 6.0 | 6.5      | 2.5  | 16.5  | 10.5 |
| 3     | 17.5    | 16.0 | 14.5     | 11.5 | 9.0      | 6.0  | 8.5     | 5.5 | 7.5      | 2.5  | 18.0  | 12.5 |
| 4     | 16.0    | 15.0 | 15.5     | 13.0 | 9.0      | 6.0  | 7.5     | 3.5 | 9.0      | 5.0  | 18.5  | 14.5 |
| 5     | 16.0    | 15.0 | 16.5     | 13.5 | 9.5      | 6.5  | 3.5     | 2.0 | 10.5     | 6.5  | 19.5  | 16.0 |
| 6     | 17.5    | 15.5 | 16.5     | 14.0 | 10.5     | 7.5  | 3.0     | 0.5 | 11.5     | 7.5  | 17.5  | 15.5 |
| 7     | 18.0    | 17.0 | 17.5     | 15.5 | 11.5     | 9.5  | 3.5     | 0.5 | 9.0      | 6.0  | 16.5  | 12.5 |
| 8     | 19.5    | 18.0 | 19.0     | 17.0 | 11.5     | 10.5 | 4.5     | 1.5 | 7.5      | 1.5  | 14.0  | 11.5 |
| 9     | 20.0    | 18.5 | 19.0     | 17.0 | 10.5     | 8.5  | 2.5     | 0.5 | 8.0      | 2.5  | 13.0  | 10.5 |
| 10    | 19.5    | 17.0 | 19.5     | 18.0 | 8.5      | 6.5  | 2.0     | 0.0 | 9.0      | 5.0  | 13.5  | 6.5  |
| 11    | 19.5    | 17.0 | 19.5     | 18.5 | 7.5      | 5.0  | 3.0     | 0.5 | 10.5     | 7.0  | 14.5  | 10.0 |
| 12    | 20.0    | 17.5 | 19.0     | 17.0 | 7.0      | 2.5  | 5.5     | 2.5 | 11.0     | 7.5  | 13.5  | 10.5 |
| 13    | 20.5    | 17.5 | 16.5     | 11.0 | 8.0      | 5.0  | 7.0     | 3.5 | 12.5     | 9.0  | 15.0  | 11.0 |
| 14    | 20.5    | 18.5 | 10.5     | 8.0  | 10.0     | 5.5  | 8.5     | 6.0 | 11.0     | 5.5  | 14.0  | 10.5 |
| 15    | 20.5    | 18.0 | 9.5      | 6.5  | 11.5     | 8.5  | 6.5     | --- | 14.0     | 10.5 | 12.0  | 11.5 |
| 16    | 20.5    | 19.0 | 9.5      | 6.0  | 12.0     | 10.5 | 5.5     | 3.5 | 12.5     | 10.5 | 12.0  | 11.5 |
| 17    | 21.0    | 19.5 | 10.5     | 7.0  | 11.0     | 9.5  | 5.5     | 2.5 | 16.0     | 10.5 | 11.5  | 10.0 |
| 18    | 19.5    | 16.0 | 11.0     | 6.0  | 9.5      | 4.0  | 3.0     | 1.5 | 15.5     | 10.5 | 11.0  | 7.5  |
| 19    | 19.5    | 13.5 | 12.0     | 9.0  | 3.5      | 2.0  | 1.5     | 0.0 | 14.0     | 10.5 | 13.5  | 10.5 |
| 20    | 14.0    | 11.5 | 13.0     | 10.0 | 3.5      | 1.5  | 2.0     | 0.0 | 12.5     | 5.5  | 15.5  | 11.0 |
| 21    | 14.5    | 11.5 | 13.0     | 11.0 | 3.5      | 1.5  | 4.0     | 1.0 | 14.0     | 10.5 | 18.0  | 15.0 |
| 22    | 15.0    | 11.5 | 10.5     | 9.0  | 3.5      | 1.5  | 4.5     | 2.0 | 13.5     | 10.5 | 14.5  | 11.5 |
| 23    | 15.0    | 12.0 | 9.0      | 8.0  | 4.0      | 1.5  | 5.5     | 0.5 | 11.5     | 8.5  | 15.0  | 10.0 |
| 24    | 16.0    | 13.0 | 9.0      | 7.0  | 3.5      | 1.5  | 6.5     | 2.5 | 11.5     | 7.0  | 15.5  | 10.5 |
| 25    | 16.5    | 14.0 | 9.0      | 7.0  | 4.0      | 3.0  | 9.0     | 6.0 | 12.0     | 7.5  | 16.0  | 11.5 |
| 26    | 16.5    | 15.0 | 8.5      | 6.0  | 5.0      | 4.0  | 10.5    | 5.5 | 12.5     | 9.0  | 17.5  | 10.5 |
| 27    | 17.0    | 15.5 | 10.0     | 8.0  | 5.5      | 2.5  | 10.5    | 7.5 | 14.0     | 9.5  | 18.0  | 10.5 |
| 28    | 17.0    | 15.5 | 9.5      | 7.0  | 6.0      | 3.5  | 7.5     | 5.5 | 14.0     | 10.0 | 19.0  | 12.5 |
| 29    | 17.5    | 15.0 | 10.5     | 7.5  | 5.0      | 3.5  | 6.0     | 4.5 | 15.0     | 10.5 | 18.0  | 15.5 |
| 30    | 17.5    | 15.5 | 12.0     | 10.0 | 6.5      | 5.0  | 7.0     | 4.5 | ---      | ---  | 17.5  | 16.5 |
| 31    | 15.0    | 12.5 | ---      | ---  | 9.0      | 6.5  | 7.5     | 4.5 | ---      | ---  | 17.5  | 15.0 |
| MONTH | 21.0    | 11.5 | 19.5     | 6.0  | 12.0     | 1.5  | 10.5    | 0.0 | 16.0     | 1.5  | 19.5  | 6.5  |

## ALTAMAHA RIVER BASIN

02208450 ALCOVY RIVER ABOVE COVINGTON, GA.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | APRIL |      | MAY  |      | JUNE |      | JULY |      | AUGUST |      | SEPTEMBER |      |
|-------|-------|------|------|------|------|------|------|------|--------|------|-----------|------|
|       | MAX   | MIN  | MAX  | MIN  | MAX  | MIN  | MAX  | MIN  | MAX    | MIN  | MAX       | MIN  |
| 1     | 15.0  | 12.0 | 17.0 | 11.5 | 20.0 | 17.0 | 23.5 | 20.0 | 24.5   | 24.5 | 22.5      | 20.5 |
| 2     | 15.5  | 10.5 | 18.0 | 15.5 | 20.0 | 16.0 | 22.5 | 20.0 | 24.5   | 24.5 | 23.0      | 20.0 |
| 3     | 17.0  | 11.5 | 18.0 | 15.0 | 21.0 | 16.0 | 22.5 | 20.0 | 24.5   | 24.5 | 22.0      | 21.0 |
| 4     | 17.5  | 12.5 | 17.0 | 10.5 | 19.5 | 17.0 | 21.5 | 20.0 | 24.5   | 24.5 | 21.0      | 20.5 |
| 5     | 18.0  | 10.5 | 17.0 | 10.5 | 18.0 | 15.5 | 21.0 | 20.0 | 24.5   | 24.5 | 22.0      | 20.0 |
| 6     | 17.0  | 10.5 | 17.5 | 12.0 | 18.0 | 16.0 | 20.0 | 15.5 | 24.5   | 24.5 | 22.5      | 20.0 |
| 7     | 18.5  | 13.5 | 19.0 | 16.5 | 18.5 | 15.5 | 21.0 | 19.5 | 24.5   | 24.5 | 22.0      | 20.0 |
| 8     | 18.0  | 10.5 | 18.0 | 15.5 | 19.5 | 15.5 | 21.5 | 19.5 | 24.5   | 22.0 | 23.0      | 20.5 |
| 9     | 17.5  | 12.0 | 18.0 | 15.5 | 20.0 | 18.0 | 22.0 | 20.0 | 23.5   | 21.5 | 23.5      | 20.5 |
| 10    | 17.0  | 11.5 | 17.5 | 11.5 | 21.5 | 17.0 | 23.0 | 20.0 | 23.5   | 20.0 | 22.5      | 20.0 |
| 11    | 17.5  | 11.0 | 18.0 | 16.0 | 21.5 | 19.5 | 24.0 | 20.0 | 24.0   | 20.5 | 20.5      | 16.0 |
| 12    | 19.0  | 15.0 | 19.5 | 16.5 | 22.5 | 19.5 | 25.0 | 20.5 | 24.0   | 22.0 | 19.5      | 16.5 |
| 13    | 18.5  | 15.0 | 19.5 | 15.5 | 23.0 | 20.5 | 25.5 | 21.0 | 24.0   | 22.0 | 19.0      | 15.5 |
| 14    | 18.0  | 15.5 | 19.0 | 17.0 | 23.0 | 21.0 | 24.5 | 21.0 | 24.0   | 22.0 | 18.0      | 16.0 |
| 15    | 19.0  | 15.0 | 19.0 | 16.5 | 22.5 | 20.0 | 24.5 | 22.0 | 24.5   | 22.0 | 18.5      | 17.5 |
| 16    | 19.5  | 16.0 | 19.0 | 16.5 | 23.0 | 20.0 | 25.0 | 21.5 | 24.5   | 20.5 | 19.0      | 17.0 |
| 17    | 19.5  | 16.0 | 19.5 | 16.0 | 24.5 | 21.5 | 24.5 | 22.0 | 23.5   | 20.5 | 19.5      | 16.5 |
| 18    | 20.0  | 16.0 | 19.5 | 16.0 | 24.0 | 22.0 | 24.5 | 22.0 | 23.5   | 21.0 | 19.5      | 17.0 |
| 19    | 20.0  | 16.5 | 17.0 | 10.5 | 23.0 | 22.5 | 24.0 | 21.0 | 23.0   | 21.0 | 19.5      | 17.0 |
| 20    | 20.5  | 17.5 | 17.5 | 10.5 | 22.5 | 20.0 | 24.5 | 20.5 | 23.0   | 21.0 | 20.5      | 19.0 |
| 21    | 21.0  | 18.5 | 18.0 | 15.0 | 22.0 | 20.5 | 24.0 | 20.0 | 22.5   | 20.5 | 20.0      | 17.5 |
| 22    | 20.5  | 17.0 | 17.5 | 15.5 | 22.0 | 20.0 | 24.5 | 20.5 | 23.0   | 21.0 | 19.5      | 16.0 |
| 23    | 20.5  | 16.5 | 18.5 | 16.5 | 22.5 | 20.0 | 25.0 | 21.0 | 24.0   | 20.5 | 17.5      | 16.0 |
| 24    | 19.5  | 16.5 | 19.0 | 17.0 | 22.0 | 20.0 | 25.5 | 21.5 | 24.5   | 21.0 | 19.0      | 16.5 |
| 25    | 19.5  | 17.0 | 19.0 | 17.0 | 23.0 | 20.0 | 26.0 | 22.0 | 24.5   | 22.0 | 19.5      | 17.0 |
| 26    | 18.5  | 16.5 | 19.0 | 17.0 | 24.0 | 20.0 | 26.0 | 21.0 | 24.5   | 22.0 | 20.0      | 19.0 |
| 27    | 17.5  | 14.5 | 19.0 | 17.0 | 24.0 | 21.0 | 26.0 | 21.0 | 24.0   | 22.0 | 21.5      | 20.0 |
| 28    | 17.0  | 11.5 | 19.0 | 16.0 | 24.5 | 20.5 | 24.5 | 21.0 | 24.5   | 21.0 | 22.0      | 20.0 |
| 29    | 15.5  | 10.5 | 19.0 | 16.5 | 24.5 | 20.0 | 25.0 | 23.0 | 24.0   | 20.5 | 21.0      | 20.5 |
| 30    | 15.5  | 10.5 | 19.0 | 16.0 | 23.5 | 22.0 | 25.0 | 21.5 | 24.0   | 21.0 | 20.5      | 17.5 |
| 31    | ---   | ---  | 20.0 | 17.0 | ---  | ---  | 24.5 | 24.5 | 23.5   | 21.0 | ---       | ---  |
| MONTH | 21.0  | 10.5 | 20.0 | 10.5 | 24.5 | 15.5 | 26.0 | 15.5 | 24.5   | 20.0 | 23.5      | 15.5 |

02209260 ALCOVY RIVER ABOVE STEWART, GA.

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

DRAINAGE AREA.--250 mi<sup>2</sup> (650 km<sup>2</sup>), 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|---------------|-----------------------------|------------------------------------|
| OCT.<br>20... | 1300 | 7.0           | 13.5                        | 7.2                                |
| NOV.<br>17... | 1415 | 6.7           | 8.0                         | 11.3                               |
| DEC.<br>15... | 1425 | 6.8           | 9.0                         | 11.4                               |
| JAN.<br>15... | 1205 | 6.9           | 6.0                         | 11.5                               |
| FEB.<br>11... | 1040 | 6.7           | 7.0                         | 11.3                               |
| MAR.<br>09... | 1045 | 7.1           | 11.0                        | 9.7                                |
| APR.<br>05... | 1245 | 7.0           | --                          | --                                 |
| MAY<br>03...  | 1025 | 7.2           | 15.5                        | 8.8                                |
| JUNE<br>07... | 1025 | 7.1           | 16.0                        | 8.9                                |
| JULY<br>13... | 1135 | 7.2           | 24.0                        | 7.7                                |
| AUG.<br>17... | 1010 | 7.0           | 22.5                        | 7.4                                |
| SEP.<br>13... | 1215 | 7.3           | 19.5                        | 8.5                                |

| DATE          | ALKA-<br>LITY<br>AS<br>CaCO <sub>3</sub><br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) |
|---------------|----------------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|
| OCT.<br>20... | 16                                                 | .05                                                  | <.02                                               | <.02                                      | 13                                  |
| NOV.<br>17... | 12                                                 | .16                                                  | .09                                                | .04                                       | 11                                  |
| DEC.<br>15... | 15                                                 | .49                                                  | .06                                                | .04                                       | 12                                  |
| JAN.<br>15... | 12                                                 | .38                                                  | .03                                                | .03                                       | 10                                  |
| FEB.<br>11... | 12                                                 | .41                                                  | .04                                                | .03                                       | 10                                  |
| MAR.<br>09... | 15                                                 | .41                                                  | <.02                                               | .08                                       | 16                                  |
| APR.<br>05... | 11                                                 | .24                                                  | .09                                                | .06                                       | 10                                  |
| MAY<br>03...  | 15                                                 | .44                                                  | <.02                                               | .05                                       | 12                                  |
| JUNE<br>07... | 13                                                 | .29                                                  | <.02                                               | .05                                       | 11                                  |
| JULY<br>13... | 15                                                 | .47                                                  | <.02                                               | .04                                       | 12                                  |
| AUG.<br>17... | 14                                                 | .37                                                  | <.02                                               | .15                                       | 10                                  |
| SEP.<br>13... | 18                                                 | .30                                                  | <.02                                               | .04                                       | 10                                  |

## ALTAMAHA RIVER BASIN

02209260 ALCOVY RIVER ABOVE STEWART, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>20... | 45                                                         | 80                                           | 27                           | 1.2                                                          | 1500                                             | 6.0                                         |
| NOV.<br>17... | 40                                                         | 90                                           | 23                           | .5                                                           | 430                                              | 3.0                                         |
| DEC.<br>15... | 47                                                         | 30                                           | 11                           | .5                                                           | 430                                              | 2.0                                         |
| JAN.<br>15... | 42                                                         | 30                                           | 12                           | .3                                                           | 30                                               | 2.0                                         |
| FEB.<br>11... | 41                                                         | 25                                           | 11                           | .2                                                           | 36                                               | 2.0                                         |
| MAR.<br>09... | --                                                         | 30                                           | 21                           | .6                                                           | 230                                              | 3.0                                         |
| APR.<br>05... | 40                                                         | 60                                           | 32                           | .9                                                           | 91                                               | 4.0                                         |
| MAY<br>03...  | 47                                                         | 40                                           | 21                           | .7                                                           | 930                                              | 2.0                                         |
| JUNE<br>07... | 40                                                         | 60                                           | 37                           | .8                                                           | 91                                               | 6.0                                         |
| JULY<br>13... | 47                                                         | 45                                           | 23                           | .4                                                           | 91                                               | 3.0                                         |
| AUG.<br>17... | 44                                                         | 120                                          | 75                           | 1.0                                                          | 4300                                             | 7.0                                         |
| SEP.<br>13... | 52                                                         | 40                                           | 16                           | .6                                                           | 230                                              | 4.0                                         |

## 02210500 OCMULGEE RIVER NEAR JACKSON, GA.

LOCATION.--Lat 33°18'27", long 83°50'18", Butts County, 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 mi<sup>2</sup> (3,680 km<sup>2</sup>), 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 sta. 02210000).

AVERAGE DISCHARGE.--31 years (1906-15, 1939-60, 1975-76), 1,722 ft<sup>3</sup>/s (48.8 m<sup>3</sup>/s), 16.47 in/yr (418.3 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,600 ft<sup>3</sup>/s (1,600 m<sup>3</sup>/s) Nov. 28, 1948, gage height, 23.9 ft (7.28 m); minimum daily, 18 ft<sup>3</sup>/s (0.51 m<sup>3</sup>/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 ft<sup>3</sup>/s (1,950 m<sup>3</sup>/s), by computation of flow over dam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 41,500 ft<sup>3</sup>/s (1,180 m<sup>3</sup>/s) Mar. 18, gage height, 19.61 ft (5.977 m); minimum daily, 548 ft<sup>3</sup>/s (15.5 m<sup>3</sup>/s) Nov. 5.

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

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR    | APR   | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|-------|-------|-------|
| 1     | 1680  | 1580  | 1710  | 2880  | 3600  | 1960   | 4600  | 1770   | 6240  | 1210  | 812   | 817   |
| 2     | 1440  | 594   | 1670  | 3440  | 3140  | 1950   | 4710  | 1330   | 5680  | 1740  | 1020  | 833   |
| 3     | 1270  | 1340  | 2290  | 3500  | 3010  | 2100   | 5070  | 1660   | 3590  | 849   | 810   | 837   |
| 4     | 632   | 1100  | 1480  | 2390  | 2750  | 2080   | 3310  | 1750   | 3060  | 1840  | 808   | 838   |
| 5     | 1640  | 548   | 1660  | 2240  | 2070  | 1180   | 3240  | 1790   | 2880  | 1950  | 829   | 830   |
| 6     | 1670  | 1340  | 1550  | 2110  | 2000  | 719    | 2860  | 1440   | 2120  | 4040  | 1570  | 820   |
| 7     | 3100  | 996   | 1270  | 2310  | 2140  | 723    | 2200  | 1700   | 2400  | 4440  | 817   | 1130  |
| 8     | 3350  | 1350  | 1280  | 2080  | 1930  | 1950   | 2220  | 959    | 2420  | 2930  | 820   | 808   |
| 9     | 3340  | 1620  | 1660  | 2220  | 2100  | 1930   | 1270  | 961    | 1840  | 3010  | 840   | 815   |
| 10    | 3320  | 1580  | 1360  | 1060  | 2080  | 2000   | 1680  | 1370   | 1550  | 1740  | 1540  | 807   |
| 11    | 3310  | 993   | 683   | 1540  | 1920  | 1480   | 1680  | 1450   | 1270  | 1610  | 819   | 814   |
| 12    | 1850  | 1940  | 1330  | 1940  | 967   | 1620   | 1680  | 1270   | 1330  | 1550  | 1200  | 812   |
| 13    | 1840  | 2000  | 906   | 2140  | 2030  | 3490   | 1680  | 1730   | 985   | 1520  | 1250  | 814   |
| 14    | 632   | 2760  | 1020  | 2070  | 1960  | 5710   | 1680  | 2250   | 937   | 1610  | 811   | 803   |
| 15    | 2120  | 2690  | 1500  | 2550  | 625   | 8360   | 1840  | 6370   | 1130  | 1870  | 825   | 892   |
| 16    | 694   | 1280  | 1010  | 3000  | 2070  | 23600  | 2470  | 9560   | 1150  | 1420  | 1860  | 806   |
| 17    | 1700  | 1470  | 1800  | 2600  | 1830  | 35300  | 1640  | 6500   | 1170  | 995   | 943   | 810   |
| 18    | 3000  | 1410  | 2170  | 1040  | 1390  | 36500  | 654   | 3490   | 1030  | 749   | 849   | 801   |
| 19    | 1870  | 1060  | 2050  | 1880  | 944   | 16700  | 1670  | 2920   | 1190  | 782   | 829   | 808   |
| 20    | 649   | 1660  | 951   | 1360  | 2070  | 7710   | 1370  | 2550   | 1800  | 1510  | 830   | 972   |
| 21    | 1840  | 1610  | 651   | 1470  | 1320  | 5620   | 1260  | 2550   | 2290  | 1790  | 824   | 808   |
| 22    | 1680  | 592   | 1590  | 1980  | 1860  | 3820   | 1400  | 2300   | 1910  | 1590  | 839   | 810   |
| 23    | 1920  | 1810  | 1530  | 1380  | 2120  | 3810   | 1350  | 1370   | 1630  | 799   | 2080  | 817   |
| 24    | 2270  | 1520  | 674   | 601   | 2140  | 3840   | 624   | 1880   | 968   | 786   | 1690  | 1280  |
| 25    | 640   | 1380  | 1360  | 619   | 2080  | 3430   | 632   | 694    | 1240  | 781   | 1400  | 1110  |
| 26    | 1720  | 1690  | 1840  | 2350  | 1830  | 2340   | 1340  | 956    | 1050  | 810   | 945   | 772   |
| 27    | 897   | 1360  | 2000  | 3770  | 1700  | 2110   | 1460  | 1690   | 995   | 770   | 1250  | 788   |
| 28    | 642   | 1360  | 980   | 4500  | 1380  | 2260   | 1760  | 6620   | 1130  | 1300  | 900   | 791   |
| 29    | 1720  | 1360  | 1830  | 7010  | 1280  | 2230   | 1070  | 11900  | 1300  | 1370  | 832   | 851   |
| 30    | 832   | 1190  | 1980  | 6970  | ---   | 2580   | 1110  | 11300  | 1490  | 1840  | 1250  | 712   |
| 31    | 604   | ---   | 1580  | 3640  | ---   | 3320   | ---   | 7530   | ---   | 1550  | 819   | ---   |
| TOTAL | 53872 | 43183 | 45365 | 78640 | 56336 | 192422 | 59570 | 101610 | 57775 | 50751 | 32911 | 25606 |
| MEAN  | 1738  | 1439  | 1463  | 2537  | 1943  | 6207   | 1986  | 3278   | 1926  | 1637  | 1062  | 854   |
| MAX   | 3350  | 2760  | 2290  | 7010  | 3600  | 36500  | 5070  | 11900  | 6240  | 4440  | 2080  | 1280  |
| MIN   | 604   | 548   | 651   | 601   | 625   | 719    | 624   | 694    | 937   | 749   | 808   | 712   |
| (+)   | -49   | -17   | +72   | +316  | -70   | -13    | +37   | +114   | -84   | -49   | -55   | -148  |
| MEAN† | 1689  | 1422  | 1535  | 2853  | 1873  | 6194   | 2023  | 3392   | 1842  | 1588  | 1007  | 706   |
| CFSM† | 1.19  | 1.00  | 1.08  | 2.01  | 1.32  | 4.36   | 1.42  | 2.39   | 1.30  | 1.12  | .71   | .50   |
| IN†   | 1.37  | 1.12  | 1.24  | 2.32  | 1.42  | 5.03   | 1.58  | 2.76   | 1.45  | 1.29  | .82   | .56   |

WTR YR 1976 TOTAL 798041 MEAN 2180 MAX 36500 MIN 548 MEAN† 2188 CFSM† 1.54 IN† 20.96

+ Change in contents, equivalent in cubic feet per second, in Lloyd Shoals Reservoir, furnished by Georgia Power Co.

† 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                               |               |                             |                                    |
| 22... | 1305 | 3030                                          | 6.7           | 14.0                        | 3.0                                |
| NOV.  |      |                                               |               |                             |                                    |
| 17... | 1500 | 2340                                          | 6.8           | 15.0                        | 6.8                                |
| DEC.  |      |                                               |               |                             |                                    |
| 15... | 1340 | 2640                                          | 6.9           | 9.5                         | 9.8                                |
| JAN.  |      |                                               |               |                             |                                    |
| 15... | 1420 | 3040                                          | 6.8           | 6.0                         | 10.0                               |
| FEB.  |      |                                               |               |                             |                                    |
| 11... | 1230 | 3010                                          | 6.9           | 8.0                         | 10.0                               |
| MAR.  |      |                                               |               |                             |                                    |
| 09... | 1130 | 3020                                          | 6.9           | 11.0                        | 9.4                                |
| APR.  |      |                                               |               |                             |                                    |
| 05... | 1315 | 3240                                          | 6.9           | --                          | --                                 |
| MAY   |      |                                               |               |                             |                                    |
| 03... | 1115 | 2390                                          | 6.7           | 14.0                        | 5.6                                |
| JUNE  |      |                                               |               |                             |                                    |
| 07... | 1100 | 2640                                          | 6.8           | 20.0                        | 5.0                                |
| JULY  |      |                                               |               |                             |                                    |
| 13... | 1330 | 3240                                          | 6.7           | 24.5                        | 4.4                                |
| AUG.  |      |                                               |               |                             |                                    |
| 17... | 1100 | 832                                           | 6.7           | 25.0                        | 2.1                                |
| SEP.  |      |                                               |               |                             |                                    |
| 13... | 1330 | 832                                           | 6.9           | 24.0                        | 3.0                                |

| DATE  | ALKAL-<br>INITY<br>AS<br>CAC03<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) |
|-------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|------------------------------------|
| OCT.  |                                          |                                                      |                                                    |                                           |                                                      |                                    |
| 22... | 19                                       | .34                                                  | .20                                                | .04                                       | 4                                                    | 15                                 |
| NOV.  |                                          |                                                      |                                                    |                                           |                                                      |                                    |
| 17... | 22                                       | .34                                                  | <.02                                               | .12                                       | 9                                                    | 17                                 |
| DEC.  |                                          |                                                      |                                                    |                                           |                                                      |                                    |
| 15... | 19                                       | .70                                                  | .14                                                | .13                                       | 3                                                    | 16                                 |
| JAN.  |                                          |                                                      |                                                    |                                           |                                                      |                                    |
| 15... | 16                                       | .60                                                  | .13                                                | .18                                       | 4                                                    | 25                                 |
| FEB.  |                                          |                                                      |                                                    |                                           |                                                      |                                    |
| 11... | 12                                       | .54                                                  | .17                                                | .12                                       | 9                                                    | 14                                 |
| MAR.  |                                          |                                                      |                                                    |                                           |                                                      |                                    |
| 09... | 16                                       | .62                                                  | .07                                                | .15                                       | 4                                                    | 16                                 |
| APR.  |                                          |                                                      |                                                    |                                           |                                                      |                                    |
| 05... | 12                                       | .43                                                  | .07                                                | .13                                       | 14                                                   | 12                                 |
| MAY   |                                          |                                                      |                                                    |                                           |                                                      |                                    |
| 03... | 17                                       | .47                                                  | .17                                                | .11                                       | <1                                                   | 16                                 |
| JUNE  |                                          |                                                      |                                                    |                                           |                                                      |                                    |
| 07... | 12                                       | .07                                                  | .04                                                | .09                                       | 14                                                   | 11                                 |
| JULY  |                                          |                                                      |                                                    |                                           |                                                      |                                    |
| 13... | 15                                       | .41                                                  | .11                                                | .11                                       | 13                                                   | 14                                 |
| AUG.  |                                          |                                                      |                                                    |                                           |                                                      |                                    |
| 17... | 20                                       | .41                                                  | .30                                                | .08                                       | 1                                                    | 14                                 |
| SEP.  |                                          |                                                      |                                                    |                                           |                                                      |                                    |
| 13... | 20                                       | .36                                                  | .14                                                | .10                                       | --                                                   | 14                                 |



ALTAMAHA RIVER BASIN

02210500 OCMULGEE RIVER NEAR JACKSON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>NUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | RIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|---------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>22... | 61                                                         | 30                                          | 22                           | 1.5                                                          | 930                                              | 3.0                                         |
| DEC.<br>15... | 73                                                         | 10                                          | 6                            | 1.2                                                          | 230                                              | 2.0                                         |
| JAN.<br>15... | 63                                                         | 35                                          | 22                           | .8                                                           | 230                                              | 3.0                                         |
| FEB.<br>11... | 56                                                         | 60                                          | 37                           | .9                                                           | 91                                               | 3.0                                         |
| MAR.<br>09... | 66                                                         | 8                                           | 8                            | 1.3                                                          | <30                                              | 2.0                                         |
| APR.<br>05... | 50                                                         | 100                                         | 52                           | 1.0                                                          | 430                                              | 5.0                                         |
| MAY<br>03...  | 61                                                         | 10                                          | 7                            | 1.0                                                          | <30                                              | 2.0                                         |
| JUNE<br>07... | 45                                                         | 90                                          | 40                           | 1.0                                                          | 36                                               | 4.0                                         |
| JULY<br>13... | 59                                                         | 45                                          | 23                           | 1.6                                                          | 36                                               | 5.0                                         |
| AUG.<br>17... | 76                                                         | 5                                           | 4                            | .8                                                           | <30                                              | 3.0                                         |
| SEP.<br>13... | 79                                                         | 5                                           | 3                            | 1.8                                                          | 36                                               | 6.0                                         |

## 02211459 BIG TOWALIGA CREEK NEAR BARNESVILLE, GA.

LOCATION.--Lat 33°04'20", long 84°11'04", Lamar County, 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 mi<sup>2</sup> (6.11 km<sup>2</sup>).

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 except those for period of no gage-height record, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 483 ft<sup>3</sup>/s (13.7 m<sup>3</sup>/s) Mar. 2, 1971, gage height, 6.69 ft (2.039 m); minimum daily, 0.62 ft<sup>3</sup>/s (0.018 m<sup>3</sup>/s) Aug. 24, 25, 1976.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 180 ft<sup>3</sup>/s (5.10 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|
| Mar. 13 | 0430 | *195 5.52                                             | 5.06 1.542              |

Minimum daily, 0.62 ft<sup>3</sup>/s (0.018 m<sup>3</sup>/s) Aug. 24, 25.

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

| DAY         | OCT   | NOV     | DEC   | JAN   | FEB  | MAR   | APR  | MAY   | JUN  | JUL   | AUG   | SEP   |
|-------------|-------|---------|-------|-------|------|-------|------|-------|------|-------|-------|-------|
| 1           | 7.3   | 1.6     | 6.0   | 13    | 5.0  | 2.0   | 7.3  | 5.1   | 5.4  | 2.6   | .82   | 1.0   |
| 2           | 8.8   | 1.6     | 3.0   | 7.0   | 4.7  | 2.1   | 4.7  | 2.4   | 5.3  | 1.7   | .82   | 1.0   |
| 3           | 4.0   | 1.6     | 2.5   | 5.0   | 4.1  | 2.0   | 3.7  | 1.8   | 3.7  | 2.6   | .78   | 1.1   |
| 4           | 2.5   | 1.6     | 2.1   | 4.0   | 3.8  | 2.0   | 3.3  | 1.5   | 5.9  | 4.4   | .78   | 1.3   |
| 5           | 3.3   | 1.6     | 1.9   | 3.7   | 3.8  | 2.0   | 3.1  | 1.5   | 3.6  | 5.2   | .75   | 1.4   |
| 6           | 4.0   | 1.7     | 1.9   | 3.7   | 3.8  | 2.0   | 2.9  | 1.4   | 2.9  | 11    | .73   | 1.5   |
| 7           | 3.0   | 2.2     | 2.1   | 6.6   | 3.1  | 2.0   | 2.8  | 1.6   | 2.7  | 5.6   | 1.1   | 1.1   |
| 8           | 20    | 3.0     | 2.4   | 6.2   | 3.0  | 2.0   | 2.7  | 1.9   | 2.5  | 3.3   | .91   | .93   |
| 9           | 5.0   | 2.2     | 2.3   | 5.2   | 3.0  | 3.5   | 2.2  | 1.8   | 2.2  | 2.4   | .81   | .86   |
| 10          | 3.5   | 1.9     | 2.4   | 4.8   | 3.2  | 2.2   | 2.1  | 1.4   | 2.3  | 2.0   | .78   | .86   |
| 11          | 3.0   | 2.1     | 2.0   | 4.9   | 2.6  | 1.9   | 2.1  | 1.4   | 2.4  | 1.8   | .73   | .77   |
| 12          | 2.5   | 3.0     | 2.0   | 5.0   | 2.6  | 2.2   | 2.0  | 1.3   | 2.2  | 1.6   | .79   | .75   |
| 13          | 2.6   | 4.5     | 1.9   | 4.8   | 2.6  | 28    | 1.9  | 1.3   | 2.0  | 1.6   | 1.1   | .74   |
| 14          | 2.2   | 3.5     | 1.8   | 4.6   | 2.6  | 6.9   | 1.9  | 11    | 1.9  | 1.5   | .76   | .94   |
| 15          | 2.1   | 2.5     | 2.0   | 4.2   | 2.3  | 17    | 1.9  | 16    | 2.0  | 1.4   | .67   | .93   |
| 16          | 2.0   | 2.1     | 3.0   | 4.0   | 2.1  | 21    | 1.8  | 6.2   | 1.5  | 1.3   | .82   | .84   |
| 17          | 25    | 1.9     | 5.0   | 3.8   | 2.2  | 8.1   | 1.7  | 4.0   | 1.6  | 1.3   | .80   | .82   |
| 18          | 10    | 1.8     | 9.0   | 3.6   | 2.4  | 5.2   | 1.6  | 2.8   | 1.6  | 1.3   | .68   | .81   |
| 19          | 5.0   | 1.7     | 4.0   | 3.4   | 2.5  | 4.0   | 1.5  | 2.2   | 2.7  | 1.2   | .65   | .82   |
| 20          | 4.0   | 1.7     | 3.5   | 3.2   | 2.2  | 3.6   | 1.5  | 2.1   | 6.1  | 1.2   | .65   | .84   |
| 21          | 3.3   | 2.1     | 3.0   | 3.1   | 2.5  | 6.5   | 1.5  | 1.9   | 2.6  | 1.2   | .65   | 1.2   |
| 22          | 2.7   | 1.8     | 2.7   | 3.0   | 12   | 4.0   | 1.5  | 3.2   | 2.2  | 1.1   | .64   | .90   |
| 23          | 2.2   | 2.4     | 2.5   | 2.9   | 4.0  | 3.4   | 1.4  | 4.5   | 2.0  | 1.1   | .63   | .85   |
| 24          | 2.0   | 2.0     | 2.4   | 3.0   | 3.1  | 3.1   | 1.4  | 4.0   | 1.9  | 1.1   | .62   | .82   |
| 25          | 1.8   | 1.8     | 3.5   | 3.1   | 2.6  | 3.0   | 2.2  | 3.7   | 1.9  | 1.2   | .62   | .83   |
| 26          | 1.8   | 1.7     | 11    | 6.9   | 2.4  | 3.0   | 1.6  | 3.6   | 1.6  | 1.0   | 1.2   | .95   |
| 27          | 1.8   | 1.7     | 6.0   | 23    | 2.2  | 3.7   | 1.4  | 6.1   | 1.5  | .83   | 1.0   | 2.1   |
| 28          | 2.2   | 1.7     | 4.5   | 7.8   | 2.1  | 3.0   | 1.3  | 16    | 1.7  | .83   | 1.1   | 2.7   |
| 29          | 2.0   | 1.6     | 3.5   | 6.1   | 2.1  | 2.6   | 1.3  | 6.7   | 2.1  | .97   | .99   | 2.1   |
| 30          | 1.9   | 1.6     | 8.0   | 5.1   | ---  | 3.6   | 4.8  | 3.7   | 4.9  | .89   | 1.3   | 1.3   |
| 31          | 1.8   | ---     | 11    | 4.5   | ---  | 14    | ---  | 2.7   | ---  | .90   | 8.8   | ---   |
| TOTAL       | 143.3 | 62.2    | 118.9 | 169.2 | 94.6 | 169.6 | 71.1 | 124.8 | 82.9 | 66.12 | 33.48 | 33.06 |
| MEAN        | 4.62  | 2.07    | 3.84  | 5.46  | 3.26 | 5.47  | 2.37 | 4.03  | 2.76 | 2.13  | 1.08  | 1.10  |
| MAX         | 25    | 4.5     | 11    | 23    | 12   | 28    | 7.3  | 16    | 6.1  | 11    | 8.8   | 2.7   |
| MIN         | 1.8   | 1.6     | 1.8   | 2.9   | 2.1  | 1.9   | 1.3  | 1.3   | 1.5  | .83   | .62   | .74   |
| CFSM        | 1.96  | .88     | 1.63  | 2.31  | 1.38 | 2.32  | 1.00 | 1.71  | 1.17 | .90   | .46   | .47   |
| IN.         | 2.26  | .98     | 1.87  | 2.67  | 1.49 | 2.67  | 1.12 | 1.97  | 1.31 | 1.04  | .53   | .52   |
| CAL YR 1975 | TOTAL | 1744.90 | MEAN  | 4.78  | MAX  | 61    | MIN  | 1.2   | CFSM | 2.03  | IN    | 27.49 |
| WTR YR 1976 | TOTAL | 1169.26 | MEAN  | 3.19  | MAX  | 28    | MIN  | .62   | CFSM | 1.35  | IN    | 18.42 |

NOTE.--No gage height record Oct. 1 to Dec. 20.

## 02212500 OCMULGEE RIVER AT JULIETTE, GA.

LOCATION.--Lat 33°05'50", long 83°47'10", Jones County, 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 mi<sup>2</sup> (5,080 km<sup>2</sup>).

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 sta. 02210000.).

AVERAGE DISCHARGE.--7 years (1916-21, 1974-76), 2,880 ft<sup>3</sup>/s (81.6 m<sup>3</sup>/s), 19.95 in/yr (506.7 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 52,900 ft<sup>3</sup>/s (1,500 m<sup>3</sup>/s) Dec. 11, 1919, gage height, 30.8 ft (9.39 m); minimum daily, 438 ft<sup>3</sup>/s (12.4 m<sup>3</sup>/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 ft<sup>3</sup>/s (1,580 m<sup>3</sup>/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 44,600 ft<sup>3</sup>/s (1,260 m<sup>3</sup>/s) Mar. 18, gage height, 24.89 ft (7.586 m); minimum daily, 837 ft<sup>3</sup>/s (23.7 m<sup>3</sup>/s) Sept. 13.

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

| DAY         | OCT   | NOV     | DEC   | JAN   | FEB   | MAR    | APR   | MAY    | JUN   | JUL   | AUG   | SEP   |     |       |
|-------------|-------|---------|-------|-------|-------|--------|-------|--------|-------|-------|-------|-------|-----|-------|
| 1           | 1590  | 1450    | 1890  | 3020  | 4180  | 1920   | 5870  | 2000   | 6100  | 1640  | 1310  | 863   |     |       |
| 2           | 1530  | 1150    | 1980  | 3760  | 3970  | 2450   | 6200  | 1870   | 7010  | 1770  | 1040  | 863   |     |       |
| 3           | 1850  | 1100    | 2510  | 3850  | 3630  | 2240   | 5840  | 1920   | 5180  | 1550  | 982   | 858   |     |       |
| 4           | 1090  | 1420    | 2270  | 2970  | 3570  | 2270   | 4570  | 1970   | 4310  | 1700  | 897   | 873   |     |       |
| 5           | 1120  | 1160    | 1370  | 2850  | 2640  | 1720   | 3950  | 1930   | 4080  | 2470  | 898   | 890   |     |       |
| 6           | 1840  | 1240    | 1860  | 2590  | 2600  | 1500   | 3660  | 1670   | 2880  | 4150  | 1040  | 876   |     |       |
| 7           | 3460  | 1400    | 1490  | 2460  | 2610  | 1100   | 2860  | 1860   | 2640  | 6160  | 1410  | 922   |     |       |
| 8           | 4950  | 1120    | 1540  | 3070  | 2560  | 1690   | 2710  | 1510   | 2960  | 3810  | 1090  | 1090  |     |       |
| 9           | 3800  | 2080    | 1790  | 2770  | 2590  | 2130   | 2190  | 1070   | 2200  | 3430  | 990   | 882   |     |       |
| 10          | 3440  | 1710    | 1820  | 2190  | 2560  | 1990   | 2200  | 1510   | 1920  | 2050  | 1220  | 868   |     |       |
| 11          | 3300  | 1390    | 1320  | 1560  | 2490  | 2160   | 2160  | 1530   | 1680  | 2180  | 1200  | 853   |     |       |
| 12          | 2460  | 1840    | 1130  | 2400  | 1620  | 1220   | 2130  | 1490   | 1740  | 1940  | 965   | 853   |     |       |
| 13          | 1980  | 2270    | 1350  | 2530  | 2130  | 4300   | 2100  | 1900   | 1560  | 1820  | 1330  | 837   |     |       |
| 14          | 1100  | 2850    | 1220  | 2610  | 2290  | 6280   | 2090  | 2160   | 1160  | 1590  | 1030  | 901   |     |       |
| 15          | 1580  | 2910    | 1660  | 2470  | 1690  | 10800  | 2090  | 14100  | 1370  | 1870  | 880   | 956   |     |       |
| 16          | 1470  | 1690    | 1420  | 3330  | 1840  | 23100  | 2780  | 10700  | 1400  | 1660  | 1320  | 963   |     |       |
| 17          | 3150  | 1560    | 2060  | 3260  | 2320  | 36300  | 1930  | 9250   | 1530  | 1500  | 2260  | 868   |     |       |
| 18          | 4290  | 1760    | 2330  | 2050  | 2040  | 42900  | 1660  | 4490   | 1300  | 1040  | 1090  | 870   |     |       |
| 19          | 2700  | 1420    | 2590  | 1770  | 1220  | 28800  | 1530  | 3320   | 1340  | 991   | 936   | 851   |     |       |
| 20          | 1600  | 1610    | 1530  | 1980  | 2090  | 11400  | 1750  | 2860   | 2070  | 1150  | 884   | 896   |     |       |
| 21          | 1750  | 1880    | 1330  | 1880  | 1720  | 7990   | 1590  | 2720   | 2660  | 1760  | 878   | 990   |     |       |
| 22          | 1850  | 1510    | 1280  | 1800  | 2800  | 5400   | 1650  | 2680   | 2400  | 1630  | 877   | 939   |     |       |
| 23          | 2070  | 1380    | 1920  | 1710  | 2930  | 4910   | 1630  | 1830   | 2000  | 1400  | 1340  | 898   |     |       |
| 24          | 1950  | 1940    | 1570  | 1380  | 2710  | 4800   | 1330  | 2050   | 1330  | 1000  | 1540  | 1040  |     |       |
| 25          | 1660  | 1710    | 1280  | 1030  | 2600  | 4380   | 970   | 1490   | 1430  | 949   | 1490  | 1300  |     |       |
| 26          | 1450  | 2290    | 2410  | 1820  | 2370  | 3490   | 1300  | 1050   | 1270  | 960   | 1230  | 894   |     |       |
| 27          | 1330  | 1090    | 2320  | 7650  | 2210  | 2930   | 1690  | 1480   | 1290  | 965   | 1060  | 886   |     |       |
| 28          | 1150  | 1790    | 1880  | 5740  | 1950  | 2930   | 1980  | 9900   | 1260  | 1410  | 1210  | 993   |     |       |
| 29          | 1580  | 1640    | 1730  | 6880  | 2220  | 3060   | 1660  | 17900  | 1480  | 1010  | 959   | 1060  |     |       |
| 30          | 1240  | 1310    | 2350  | 8610  | ---   | 3100   | 1380  | 12600  | 1620  | 2230  | 953   | 1120  |     |       |
| 31          | 1120  | ---     | 2240  | 4660  | ---   | 4150   | ---   | 10200  | ---   | 1200  | 1130  | ---   |     |       |
| TOTAL       | 65450 | 49670   | 55440 | 96650 | 72150 | 233410 | 75450 | 133010 | 71170 | 58985 | 35439 | 27953 |     |       |
| MEAN        | 2111  | 1656    | 1788  | 3118  | 2488  | 7529   | 2515  | 4291   | 2372  | 1903  | 1143  | 932   |     |       |
| MAX         | 4950  | 2910    | 2590  | 8610  | 4180  | 42900  | 6200  | 17900  | 7010  | 6160  | 2260  | 1300  |     |       |
| MIN         | 1090  | 1090    | 1130  | 1030  | 1220  | 1100   | 970   | 1050   | 1160  | 949   | 877   | 837   |     |       |
| CAL YR 1975 | TOTAL | 1374751 | MEAN  | 3766  | MAX   | 30100  | MIN   | 982    | MEAN† | 3736  | CFSM† | 1.91  | IN† | 25.93 |
| WTR YR 1976 | TOTAL | 974777  | MEAN  | 2663  | MAX   | 42900  | MIN   | 837    | MEAN† | 2671  | CFSM† | 1.36  | IN† | 18.51 |

† Adjusted for change in contents in Lloyd Shoals Reservoir.

## ALTAMAHA RIVER BASIN

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

LOCATION.--Lat 33°05'59", long 83°43'25", Jones County, 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 mi<sup>2</sup> (187 km<sup>2</sup>).

## 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.--12 years, 69.3 ft<sup>3</sup>/s (1.96 m<sup>3</sup>/s), 13.03 in/yr (331.0 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,700 ft<sup>3</sup>/s (218 m<sup>3</sup>/s) Mar. 2, 1971, gage height, 23.0 ft (7.010 m), from floodmark; minimum, 0.14 ft<sup>3</sup>/s (0.004 m<sup>3</sup>/s) Sept. 29, 30, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,100 ft<sup>3</sup>/s (31.2 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Oct. 18 | 0245 | 2140 60.6                                             | 14.41 4.392             | May 15 | 1100 | *7100 201                                             | 22.40 6.828             |
| Jan. 27 | 2045 | 1660 47.0                                             | 13.20 4.023             | May 29 | 1345 | 1440 40.8                                             | 12.32 3.755             |
| Mar. 16 | 0645 | 2200 62.3                                             | 14.99 4.569             | July 7 | 0430 | 1440 40.8                                             | 12.36 3.767             |

Minimum discharge, 7.8 ft<sup>3</sup>/s (0.221 m<sup>3</sup>/s) Sept. 13, 14, gage height, 0.95 ft (0.290 m).

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

| DAY         | OCT   | NOV     | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG   | SEP   |
|-------------|-------|---------|------|------|------|------|------|------|------|------|-------|-------|
| 1           | 43    | 29      | 55   | 194  | 86   | 40   | 93   | 89   | 61   | 26   | 12    | 9.4   |
| 2           | 213   | 29      | 58   | 110  | 129  | 39   | 65   | 62   | 107  | 23   | 11    | 9.2   |
| 3           | 85    | 29      | 44   | 82   | 91   | 37   | 52   | 35   | 29   | 20   | 11    | 8.8   |
| 4           | 43    | 29      | 38   | 71   | 71   | 36   | 47   | 26   | 35   | 23   | 10    | 10    |
| 5           | 35    | 29      | 35   | 61   | 63   | 36   | 44   | 22   | 40   | 68   | 9.6   | 15    |
| 6           | 33    | 29      | 34   | 56   | 55   | 36   | 42   | 21   | 38   | 277  | 9.2   | 14    |
| 7           | 82    | 34      | 37   | 72   | 55   | 36   | 41   | 20   | 37   | 802  | 11    | 11    |
| 8           | 926   | 50      | 43   | 212  | 51   | 34   | 39   | 22   | 37   | 153  | 36    | 12    |
| 9           | 300   | 39      | 42   | 130  | 49   | 50   | 37   | 30   | 35   | 63   | 21    | 11    |
| 10          | 109   | 36      | 43   | 86   | 47   | 53   | 35   | 25   | 35   | 41   | 14    | 10    |
| 11          | 64    | 34      | 37   | 75   | 45   | 41   | 34   | 22   | 37   | 33   | 12    | 8.4   |
| 12          | 50    | 40      | 35   | 76   | 44   | 38   | 32   | 22   | 31   | 27   | 11    | 8.8   |
| 13          | 43    | 79      | 34   | 67   | 42   | 261  | 31   | 22   | 28   | 23   | 10    | 8.0   |
| 14          | 39    | 74      | 34   | 76   | 41   | 164  | 31   | 114  | 26   | 20   | 10    | 15    |
| 15          | 36    | 45      | 34   | 69   | 40   | 331  | 31   | 4150 | 25   | 19   | 9.6   | 40    |
| 16          | 35    | 38      | 44   | 61   | 40   | 1540 | 30   | 668  | 25   | 17   | 15    | 25    |
| 17          | 437   | 34      | 110  | 57   | 39   | 620  | 28   | 169  | 22   | 16   | 19    | 18    |
| 18          | 1140  | 32      | 153  | 52   | 39   | 168  | 27   | 97   | 23   | 16   | 14    | 14    |
| 19          | 165   | 31      | 82   | 48   | 44   | 108  | 25   | 82   | 25   | 16   | 12    | 12    |
| 20          | 84    | 31      | 63   | 48   | 41   | 85   | 24   | 68   | 31   | 15   | 10    | 11    |
| 21          | 61    | 32      | 55   | 50   | 38   | 107  | 24   | 54   | 40   | 15   | 10    | 14    |
| 22          | 50    | 30      | 50   | 49   | 160  | 105  | 22   | 44   | 32   | 15   | 10    | 20    |
| 23          | 43    | 35      | 47   | 46   | 151  | 76   | 21   | 50   | 25   | 15   | 9.8   | 15    |
| 24          | 39    | 38      | 44   | 46   | 74   | 63   | 20   | 56   | 42   | 17   | 9.4   | 12    |
| 25          | 34    | 34      | 45   | 45   | 57   | 57   | 23   | 45   | 33   | 16   | 9.2   | 12    |
| 26          | 32    | 31      | 194  | 76   | 51   | 55   | 28   | 38   | 25   | 14   | 9.4   | 19    |
| 27          | 32    | 31      | 134  | 1120 | 47   | 53   | 23   | 40   | 21   | 12   | 14    | 18    |
| 28          | 33    | 31      | 82   | 723  | 44   | 52   | 21   | 595  | 21   | 12   | 20    | 23    |
| 29          | 33    | 29      | 66   | 189  | 41   | 48   | 20   | 906  | 23   | 12   | 16    | 21    |
| 30          | 33    | 29      | 102  | 118  | ---  | 46   | 28   | 229  | 23   | 11   | 12    | 19    |
| 31          | 31    | ---     | 226  | 88   | ---  | 71   | ---  | 96   | ---  | 13   | 10    | ---   |
| TOTAL       | 4383  | 1091    | 2100 | 4253 | 1778 | 4485 | 1018 | 7919 | 1012 | 1850 | 397.2 | 443.6 |
| MFAN        | 141   | 36.4    | 67.7 | 137  | 61.3 | 145  | 33.9 | 255  | 33.7 | 59.7 | 12.8  | 14.8  |
| MAX         | 1140  | 79      | 226  | 1120 | 160  | 1540 | 93   | 4150 | 107  | 802  | 36    | 40    |
| MIN         | 31    | 29      | 34   | 45   | 38   | 34   | 20   | 20   | 21   | 11   | 9.2   | 8.0   |
| CFSM        | 1.95  | .50     | .94  | 1.90 | .85  | 2.01 | .47  | 3.53 | .47  | .83  | .18   | .20   |
| IN.         | 2.26  | .56     | 1.08 | 2.19 | .92  | 2.31 | .52  | 4.08 | .52  | .95  | .20   | .23   |
| CAL YR 1975 | TOTAL | 43840.0 | MEAN | 120  | MAX  | 3300 | MIN  | 12   | CFSM | 1.66 | IN    | 22.59 |
| WTR YR 1976 | TOTAL | 30729.8 | MEAN | 84.0 | MAX  | 4150 | MIN  | 8.0  | CFSM | 1.16 | IN    | 15.83 |

## ALTAMAHA RIVER BASIN

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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.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 24.5°C Apr. 8; minimum recorded, 2.0°C Jan. 22-24.

## WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------------------------------|------------------------------------|
| OCT   |      |                                               |               |                             |                                                            |                                    |
| 07... | 1120 | 40                                            | 6.7           | 20.0                        | 110                                                        | 8.1                                |
| 21... | 1015 | 63                                            | --            | 13.0                        | 72                                                         | 9.1                                |
| DEC   |      |                                               |               |                             |                                                            |                                    |
| 09... | 0845 | 40                                            | 6.9           | 11.0                        | 110                                                        | 8.0                                |
| JAN   |      |                                               |               |                             |                                                            |                                    |
| 15... | 1245 | 68                                            | 5.6           | 7.0                         | 102                                                        | --                                 |
| FEB   |      |                                               |               |                             |                                                            |                                    |
| 03... | 0420 | 95                                            | 6.2           | 7.0                         | 61                                                         | 10.6                               |
| 24... | 0730 | 78                                            | 6.8           | 9.0                         | 90                                                         | 8.5                                |
| APR   |      |                                               |               |                             |                                                            |                                    |
| 06... | 0650 | 42                                            | 7.4           | 15.0                        | 107                                                        | 8.8                                |
| 27... | 0715 | 24                                            | 7.6           | 13.5                        | 121                                                        | 8.8                                |
| MAY   |      |                                               |               |                             |                                                            |                                    |
| 18... | 0715 | 120                                           | 6.8           | 19.0                        | 65                                                         | 7.4                                |
| JUN   |      |                                               |               |                             |                                                            |                                    |
| 07... | 0700 | 44                                            | 6.4           | 16.0                        | 96                                                         | 6.8                                |
| AUG   |      |                                               |               |                             |                                                            |                                    |
| 09... | 0900 | 27                                            | 6.3           | 21.0                        | 130                                                        | 8.1                                |
| 30... | 0740 | 14                                            | 6.6           | 23.0                        | 130                                                        | 6.0                                |

| DATE  | DIS-<br>SOLVED<br>SILICA<br>(SI02)<br>(MG/L) | DIS-<br>SOLVED<br>ALUM-<br>INUM<br>(AL)<br>(UG/L) | DIS-<br>SOLVED<br>IRON<br>(FE)<br>(UG/L) | DIS-<br>SOLVED<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HC03)<br>(MG/L) |
|-------|----------------------------------------------|---------------------------------------------------|------------------------------------------|----------------------------------------------------|--------------------------------------------------|---------------------------------------------------------|--------------------------------------------|--------------------------------------------------------|--------------------------------------|
| OCT   |                                              |                                                   |                                          |                                                    |                                                  |                                                         |                                            |                                                        |                                      |
| 07... | 19                                           | --                                                | 370                                      | 30                                                 | 9.9                                              | 4.4                                                     | 6.6                                        | 1.5                                                    | 56                                   |
| 21... | 17                                           | 60                                                | 290                                      | 110                                                | 5.7                                              | 3.2                                                     | 4.8                                        | 1.4                                                    | 40                                   |
| DEC   |                                              |                                                   |                                          |                                                    |                                                  |                                                         |                                            |                                                        |                                      |
| 09... | 18                                           | --                                                | 200                                      | 120                                                | 10                                               | 5.4                                                     | 6.5                                        | 1.3                                                    | 59                                   |
| JAN   |                                              |                                                   |                                          |                                                    |                                                  |                                                         |                                            |                                                        |                                      |
| 15... | 16                                           | --                                                | 30                                       | 140                                                | 8.3                                              | 4.0                                                     | 5.5                                        | .9                                                     | 47                                   |
| FEB   |                                              |                                                   |                                          |                                                    |                                                  |                                                         |                                            |                                                        |                                      |
| 03... | 15                                           | --                                                | 120                                      | 100                                                | 6.9                                              | 3.6                                                     | 4.7                                        | .8                                                     | 38                                   |
| 24... | 15                                           | --                                                | 40                                       | 70                                                 | 8.3                                              | 4.2                                                     | 5.3                                        | 1.1                                                    | 42                                   |
| APR   |                                              |                                                   |                                          |                                                    |                                                  |                                                         |                                            |                                                        |                                      |
| 06... | 18                                           | 10                                                | 40                                       | 100                                                | 11                                               | 5.3                                                     | 5.9                                        | .9                                                     | 62                                   |
| 27... | 20                                           | --                                                | 70                                       | 80                                                 | 11                                               | 6.0                                                     | 7.3                                        | 1.0                                                    | 71                                   |
| MAY   |                                              |                                                   |                                          |                                                    |                                                  |                                                         |                                            |                                                        |                                      |
| 18... | 13                                           | --                                                | 190                                      | 50                                                 | 6.1                                              | 2.9                                                     | 3.7                                        | .9                                                     | 38                                   |
| JUN   |                                              |                                                   |                                          |                                                    |                                                  |                                                         |                                            |                                                        |                                      |
| 07... | 18                                           | --                                                | 10                                       | 80                                                 | 8.8                                              | 4.4                                                     | 5.4                                        | .8                                                     | 59                                   |
| AUG   |                                              |                                                   |                                          |                                                    |                                                  |                                                         |                                            |                                                        |                                      |
| 09... | 19                                           | --                                                | 80                                       | 40                                                 | 9.5                                              | 4.8                                                     | 8.5                                        | 1.6                                                    | 61                                   |
| 30... | 21                                           | --                                                | 200                                      | 90                                                 | 11                                               | 6.0                                                     | 8.8                                        | 1.4                                                    | 75                                   |

02212600 FALLING CREEK NEAR JULIETTE, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

|           | CAR-<br>BONATE<br>(CO3) | ALKA-<br>LITY<br>AS<br>CACO3 | DIS-<br>SOLVED<br>SULFATE<br>(SO4) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL) | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F) | DIS-<br>SOLVED<br>NITRATE<br>(N) | DIS-<br>SOLVED<br>NITRATE<br>(NO3) | DIS-<br>SOLVED<br>NITRITE<br>(N) | DIS-<br>SOLVED<br>NITRITE<br>(NO2) |
|-----------|-------------------------|------------------------------|------------------------------------|-----------------------------------------|----------------------------------------|----------------------------------|------------------------------------|----------------------------------|------------------------------------|
| DATE      | (MG/L)                  | (MG/L)                       | (MG/L)                             | (MG/L)                                  | (MG/L)                                 | (MG/L)                           | (MG/L)                             | (MG/L)                           | (MG/L)                             |
| OCT 07... | 0                       | 46                           | 4.7                                | 2.8                                     | .6                                     | .03                              | .13                                | .01                              | .03                                |
| 21...     | 0                       | 33                           | 3.8                                | 2.7                                     | .4                                     | .10                              | .44                                | .00                              | .00                                |
| DEC 09... | 0                       | 48                           | 4.8                                | 3.0                                     | .8                                     | .01                              | .04                                | .00                              | .00                                |
| JAN 15... | 0                       | 39                           | 5.0                                | 2.9                                     | .3                                     | .02                              | .09                                | .00                              | .00                                |
| FEB 03... | 0                       | 31                           | 5.8                                | 2.5                                     | .3                                     | .02                              | .09                                | .00                              | .00                                |
| 24...     | 0                       | 34                           | 5.3                                | 2.9                                     | .3                                     | .02                              | .09                                | .00                              | .00                                |
| APR 06... | 0                       | 51                           | 2.8                                | 2.4                                     | .4                                     | .00                              | .00                                | .00                              | .00                                |
| 27...     | 0                       | 58                           | 3.7                                | 2.2                                     | .5                                     | .06                              | .27                                | .00                              | .00                                |
| MAY 18... | 0                       | 31                           | 3.8                                | 1.6                                     | .2                                     | .05                              | .22                                | .00                              | .00                                |
| JUN 07... | 0                       | 48                           | 2.8                                | 2.3                                     | .3                                     | .05                              | .22                                | .00                              | .00                                |
| AUG 09... | 0                       | 50                           | 6.6                                | 2.7                                     | 1.0                                    | .03                              | .13                                | .00                              | .00                                |
| 30...     | 0                       | 62                           | 3.0                                | 3.0                                     | .9                                     | .04                              | .18                                | .00                              | .00                                |

|           | DIS-<br>SOLVED<br>NITRITE<br>PLUS<br>NITRATE<br>(N) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C) | DIS-<br>SOLVED<br>SOLIDS<br>(SUM OF<br>CONSTITUENTS) | HARD-<br>NESS<br>(CA+MG) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | CARBON<br>DIOXIDE<br>(CO2) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) |
|-----------|-----------------------------------------------------|--------------------------------------------------------|------------------------------------------------------|--------------------------|-----------------------------------------|----------------------------------------------|----------------------------|---------------------------------------------------|-------------------------------------------------------|
| DATE      | (MG/L)                                              | (MG/L)                                                 | (MG/L)                                               | (MG/L)                   | (MG/L)                                  |                                              | (MG/L)                     |                                                   |                                                       |
| OCT 07... | .04                                                 | 82                                                     | 78                                                   | 43                       | 0                                       | 50                                           | 18                         | 200                                               | --                                                    |
| 21...     | .10                                                 | 70                                                     | 60                                                   | 27                       | 0                                       | 110                                          | --                         | 125                                               | 810                                                   |
| DEC 09... | .01                                                 | 100                                                    | 79                                                   | 47                       | 0                                       | 30                                           | 12                         | 170                                               | 160                                                   |
| JAN 15... | .02                                                 | 74                                                     | 66                                                   | 37                       | 0                                       | 70                                           | 189                        | 60                                                | --                                                    |
| FEB 03... | .02                                                 | 70                                                     | 59                                                   | 32                       | 1                                       | 130                                          | 38                         | 89                                                | 260                                                   |
| 24...     | .02                                                 | 67                                                     | 63                                                   | 38                       | 4                                       | 90                                           | 11                         | 205                                               | --                                                    |
| APR 06... | .00                                                 | 78                                                     | 77                                                   | 49                       | 0                                       | 40                                           | 3.9                        | 90                                                | --                                                    |
| 27...     | .06                                                 | 88                                                     | 87                                                   | 52                       | 0                                       | 10                                           | 2.9                        | 230                                               | 732                                                   |
| MAY 18... | .05                                                 | 54                                                     | 51                                                   | 27                       | 0                                       | 170                                          | 9.6                        | 200                                               | 5100                                                  |
| JUN 07... | .05                                                 | 97                                                     | 72                                                   | 40                       | 0                                       | 55                                           | 38                         | --                                                | --                                                    |
| AUG 09... | .03                                                 | 88                                                     | 84                                                   | 43                       | 0                                       | 25                                           | 49                         | 490                                               | 10000                                                 |
| 30...     | .04                                                 | 114                                                    | 93                                                   | 52                       | 0                                       | 15                                           | 30                         | 210                                               | 346                                                   |

|           | DIS-<br>SOLVED<br>ARSENIC<br>(AS) | DIS-<br>SOLVED<br>BARIUM<br>(BA) | DIS-<br>SOLVED<br>CAD-<br>MIUM<br>(CD) | DIS-<br>SOLVED<br>CHRO-<br>MIUM<br>(CR) | DIS-<br>SOLVED<br>COPPER<br>(CU) | DIS-<br>SOLVED<br>LEAD<br>(PB) | DIS-<br>SOLVED<br>MERCURY<br>(HG) | DIS-<br>SOLVED<br>SILVER<br>(AG) | DIS-<br>SOLVED<br>ZINC<br>(ZN) | DIS-<br>SOLVED<br>SELE-<br>NIUM<br>(SE) |
|-----------|-----------------------------------|----------------------------------|----------------------------------------|-----------------------------------------|----------------------------------|--------------------------------|-----------------------------------|----------------------------------|--------------------------------|-----------------------------------------|
| DATE      | (UG/L)                            | (UG/L)                           | (UG/L)                                 | (UG/L)                                  | (UG/L)                           | (UG/L)                         | (UG/L)                            | (UG/L)                           | (UG/L)                         | (UG/L)                                  |
| OCT 21... | 0                                 | --                               | 0                                      | 0                                       | 1                                | 0                              | .2                                | --                               | 0                              | 0                                       |
| APR 06... | 0                                 | 0                                | 0                                      | 0                                       | 0                                | 0                              | .1                                | 0                                | 0                              | 0                                       |

|           | PCB<br>IN<br>BOTTOM<br>MA-<br>TERIAL | ALDRIN<br>IN<br>BOTTOM<br>MA-<br>TERIAL | CHLOR-<br>DANE<br>IN<br>BOTTOM<br>MA-<br>TERIAL | DDD<br>IN<br>BOTTOM<br>MA-<br>TERIAL | DDE<br>IN<br>BOTTOM<br>MA-<br>TERIAL | DDT<br>IN<br>BOTTOM<br>MA-<br>TERIAL | DI-<br>ELDRIN<br>IN<br>BOTTOM<br>MA-<br>TERIAL | ENDRIN<br>IN<br>BOTTOM<br>MA-<br>TERIAL | HEPTA-<br>CHLOR<br>IN<br>BOTTOM<br>MA-<br>TERIAL | LINDANE<br>IN<br>BOTTOM<br>MA-<br>TERIAL | TOX-<br>APHENE<br>IN<br>BOTTOM<br>MA-<br>TERIAL |
|-----------|--------------------------------------|-----------------------------------------|-------------------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|------------------------------------------------|-----------------------------------------|--------------------------------------------------|------------------------------------------|-------------------------------------------------|
| DATE      | (UG/KG)                              | (UG/KG)                                 | (UG/KG)                                         | (UG/KG)                              | (UG/KG)                              | (UG/KG)                              | (UG/KG)                                        | (UG/KG)                                 | (UG/KG)                                          | (UG/KG)                                  | (UG/KG)                                         |
| OCT 21... | 0                                    | .0                                      | 0                                               | .0                                   | .0                                   | .0                                   | .0                                             | .0                                      | .0                                               | .0                                       | 0                                               |





## ALTAMAHA RIVER BASIN

02212950 OCMULGEE RIVER ABOVE MACON, GA.

LOCATION.--Lat 32°52'11", long 83°39'15", Bibb County, 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 mi<sup>2</sup> (5,800 km<sup>2</sup>), 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.<br>08... | 1000 | 9310                                          | 7.0           | 23.0                        | 7.7                                |
| NOV.<br>05... | 1500 | 2300                                          | 7.2           | 20.0                        | 9.0                                |
| DEC.<br>02... | 1340 | 2820                                          | 7.2           | 19.0                        | 10.4                               |
| JAN.<br>06... | 1000 | 3300                                          | 7.0           | 6.0                         | 11.4                               |
| FEB.<br>02... | 1500 | 5170                                          | 6.7           | 8.5                         | 11.8                               |
| MAR.<br>02... | 0940 | 3120                                          | --            | 13.2                        | 10.6                               |
| APR.<br>14... | 1730 | 2450                                          | 6.9           | 19.0                        | 9.4                                |
| JUNE<br>08... | 1545 | 3480                                          | 6.7           | 23.0                        | 8.3                                |
| 10...         | 1030 | 3130                                          | 6.7           | 20.5                        | 8.3                                |
| JULY<br>07... | 1530 | --                                            | 6.7           | 23.0                        | 8.3                                |
| AUG.<br>18... | 1200 | 1300                                          | --            | 27.0                        | 7.7                                |

| DATE          | TOTAL<br>IRON<br>(FF)<br>(MG/L) | TOTAL<br>MAN-<br>GANESF<br>(MN)<br>(MG/L) | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) |
|---------------|---------------------------------|-------------------------------------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| OCT.<br>08... | 7800                            | 380                                       | 15                                       | .23                                                  | --                                                 | .19                                       | 14                                 |
| NOV.<br>05... | 500                             | 60                                        | 20                                       | .42                                                  | --                                                 | .14                                       | 16                                 |
| DEC.<br>02... | 710                             | 60                                        | 21                                       | .60                                                  | <.02                                               | .09                                       | 18                                 |
| JAN.<br>06... | 1100                            | 80                                        | 17                                       | .70                                                  | .12                                                | .13                                       | 17                                 |
| FEB.<br>02... | 3500                            | 150                                       | 13                                       | .50                                                  | .13                                                | .18                                       | 14                                 |
| MAR.<br>02... | --                              | --                                        | 16                                       | .53                                                  | <.02                                               | .09                                       | 15                                 |
| APR.<br>14... | 1150                            | 110                                       | 15                                       | .40                                                  | .04                                                | .10                                       | 14                                 |
| JUNE<br>08... | 1300                            | 120                                       | 14                                       | .31                                                  | .04                                                | .07                                       | 13                                 |
| 10...         | 470                             | 70                                        | 17                                       | .51                                                  | <.02                                               | .07                                       | 16                                 |
| JULY<br>07... | 715                             | 270                                       | 12                                       | .19                                                  | .06                                                | .17                                       | 13                                 |
| AUG.<br>18... | --                              | --                                        | 16                                       | .45                                                  | .05                                                | .03                                       | 14                                 |

02212950 OCMULGEE RIVER ABOVE MACON, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | RIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | CON-<br>FIRMED<br>COLI-<br>FORM<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|------------------------------------------|---------------------------------------------|
| OCT.<br>08... | 48                                                         | 225                                          | 190                          | 2.0                                                          | 7500                                             | 4300                                     | --                                          |
| NOV.<br>05... | 70                                                         | 10                                           | 8                            | 7.0                                                          | <30                                              | 430                                      | --                                          |
| DEC.<br>02... | 67                                                         | 10                                           | 10                           | .2                                                           | 430                                              | 2300                                     | 2.0                                         |
| JAN.<br>06... | 62                                                         | 40                                           | 26                           | .6                                                           | 430                                              | 2300                                     | 4.0                                         |
| FEB.<br>02... | 54                                                         | 135                                          | 96                           | .3                                                           | 930                                              | 9300                                     | 5.0                                         |
| MAR.<br>02... | --                                                         | 25                                           | 21                           | .7                                                           | 36                                               | --                                       | 3.0                                         |
| APR.<br>14... | 55                                                         | 50                                           | 39                           | .4                                                           | 91                                               | 430                                      | 3.0                                         |
| JUNE<br>08... | 50                                                         | 60                                           | 33                           | 1.2                                                          | <30                                              | 1500                                     | 20                                          |
| 10...         | 65                                                         | 10                                           | 8                            | .3                                                           | 36                                               | 930                                      | 11                                          |
| JULY<br>07... | 42                                                         | 180                                          | 180                          | 1.7                                                          | 4300                                             | 23000                                    | 12                                          |
| AUG.<br>18... | --                                                         | 140                                          | 39                           | .7                                                           | 930                                              | --                                       | 6.0                                         |

## 02213000 OCMULGEE RIVER AT MACON, GA.

LOCATION.--Lat 32°50'19", long 83°37'14", Bibb County, 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 mi<sup>2</sup> (5,800 km<sup>2</sup>), 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 sta. 02210000). Records of chemical analyses for the water years 1968-73 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--66 years (1893-1911, 1928-76), 2,743 ft<sup>3</sup>/s (77.7 m<sup>3</sup>/s), 16.63 in/yr (422.4 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,500 ft<sup>3</sup>/s (2,360 m<sup>3</sup>/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 ft<sup>3</sup>/s (3.62 m<sup>3</sup>/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 ft<sup>3</sup>/s (2,050 m<sup>3</sup>/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 14,000 ft<sup>3</sup>/s (396 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Mar. 18 | 2200 | *42000 1190                                           | 25.49 7.769             | May 29 | 1900 | 23700 671                                             | 21.10 6.431             |
| May 15  | 1700 | 29600 838                                             | 22.54 6.870             |        |      |                                                       |                         |

Minimum daily discharge, 892 ft<sup>3</sup>/s (25.3 m<sup>3</sup>/s) Sept. 13.

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

| DAY   | OCT   | NOV   | DEC   | JAN    | FEB   | MAR    | APR   | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|-------|-------|-------|
| 1     | 1130  | 1140  | 1910  | 4110   | 5140  | 1950   | 5800  | 2320   | 7520  | 2150  | 1570  | 936   |
| 2     | 2770  | 2060  | 2420  | 4600   | 5100  | 2500   | 6920  | 2860   | 8140  | 1770  | 994   | 916   |
| 3     | 2070  | 1170  | 2570  | 4600   | 4450  | 2440   | 6150  | 2190   | 7160  | 2100  | 1130  | 923   |
| 4     | 1730  | 1810  | 2880  | 3780   | 4180  | 2400   | 5670  | 2330   | 5240  | 1560  | 947   | 937   |
| 5     | 1040  | 1630  | 1740  | 3260   | 3420  | 2450   | 4520  | 2300   | 5210  | 2520  | 927   | 977   |
| 6     | 1930  | 1120  | 2130  | 2970   | 3030  | 1600   | 4220  | 2280   | 3910  | 5410  | 932   | 967   |
| 7     | 3850  | 1840  | 2130  | 3100   | 2940  | 1180   | 3440  | 2060   | 3260  | 10700 | 1660  | 971   |
| 8     | 4630  | 1590  | 1840  | 4500   | 2960  | 1140   | 3070  | 2270   | 3390  | 6200  | 1210  | 1220  |
| 9     | 6200  | 1960  | 1870  | 3740   | 2800  | 2290   | 2980  | 1660   | 2880  | 4370  | 1170  | 959   |
| 10    | 4700  | 2180  | 2220  | 3170   | 2870  | 2300   | 2340  | 1630   | 2610  | 2990  | 1050  | 927   |
| 11    | 4220  | 2160  | 1960  | 2060   | 2820  | 2280   | 2480  | 1920   | 2290  | 2420  | 1570  | 903   |
| 12    | 3440  | 1930  | 1320  | 2450   | 2600  | 1760   | 2450  | 2020   | 1960  | 2430  | 1000  | 902   |
| 13    | 2480  | 3460  | 1710  | 2810   | 1650  | 4990   | 2430  | 1860   | 2010  | 2050  | 1270  | 892   |
| 14    | 2420  | 3070  | 1440  | 2970   | 2570  | 6810   | 2440  | 2960   | 1650  | 1930  | 1320  | 1040  |
| 15    | 1310  | 3460  | 1550  | 2860   | 2510  | 9440   | 2430  | 27400  | 1530  | 1900  | 947   | 1090  |
| 16    | 2620  | 2750  | 2030  | 3430   | 1320  | 21700  | 2760  | 15300  | 1710  | 2090  | 1080  | 1110  |
| 17    | 2550  | 1900  | 1830  | 3620   | 2520  | 33300  | 2550  | 11600  | 1690  | 1690  | 2960  | 967   |
| 18    | 7520  | 2010  | 3280  | 2800   | 2370  | 39400  | 2310  | 6370   | 1690  | 1330  | 1440  | 935   |
| 19    | 4360  | 1980  | 2880  | 1720   | 1960  | 34000  | 1460  | 4620   | 1600  | 1080  | 1080  | 910   |
| 20    | 3120  | 1630  | 1960  | 2350   | 1510  | 14600  | 2300  | 3890   | 2000  | 1080  | 975   | 911   |
| 21    | 1630  | 2230  | 1680  | 1930   | 2480  | 9200   | 2040  | 3400   | 2850  | 1710  | 957   | 1060  |
| 22    | 2540  | 2130  | 1460  | 1960   | 2250  | 7010   | 1940  | 3290   | 2990  | 1930  | 951   | 994   |
| 23    | 2410  | 1280  | 2250  | 2140   | 3520  | 5650   | 2030  | 2920   | 2410  | 1750  | 948   | 962   |
| 24    | 2540  | 2500  | 2000  | 1830   | 3100  | 5290   | 1970  | 2420   | 2010  | 1100  | 1940  | 938   |
| 25    | 2810  | 2030  | 1590  | 1180   | 2890  | 5030   | 1410  | 2600   | 1530  | 1060  | 1660  | 1350  |
| 26    | 1390  | 2240  | 3310  | 1450   | 2770  | 4230   | 1400  | 1510   | 1710  | 1030  | 1450  | 1290  |
| 27    | 2270  | 1820  | 3090  | 10500  | 2530  | 3380   | 2030  | 1780   | 1500  | 1020  | 1120  | 939   |
| 28    | 1520  | 1940  | 2620  | 4290   | 2350  | 3290   | 2090  | 10400  | 1440  | 1060  | 1410  | 1020  |
| 29    | 1280  | 1830  | 1960  | 7430   | 2050  | 3450   | 2320  | 20100  | 1580  | 1420  | 1070  | 1240  |
| 30    | 2250  | 1910  | 4370  | 9050   | ---   | 3260   | 1890  | 14300  | 1740  | 1560  | 977   | 1350  |
| 31    | 1490  | ---   | 4440  | 6470   | ---   | 4900   | ---   | 11800  | ---   | 1500  | 1280  | ---   |
| TOTAL | 90220 | 60800 | 70590 | 118130 | 82660 | 243220 | 87860 | 174360 | 87210 | 72910 | 38995 | 30536 |
| MEAN  | 2910  | 2027  | 2277  | 3811   | 2850  | 7846   | 2929  | 5625   | 2907  | 2352  | 1258  | 1018  |
| MAX   | 8630  | 3460  | 4440  | 10500  | 5140  | 39400  | 6920  | 27400  | 8140  | 10700 | 2960  | 1350  |
| MTN   | 1040  | 1120  | 1320  | 1180   | 1320  | 1140   | 1400  | 1510   | 1440  | 1020  | 927   | 892   |

CAL YR 1975 TOTAL 1630240 MEAN 4466 MAX 39700 MIN 915 MEAN† 4436 CFSM† 1.98 INF† 26.88  
WTR YR 1976 TOTAL 1157491 MEAN 3163 MAX 39400 MIN 892 MEAN† 3171 CFSM† 1.42 INF† 19.33

† Adjusted for change in contents in Lloyd Shoals Reservoir.

## 02213050 WALNUT CREEK NEAR GRAY, GA.

LOCATION.--Lat 32°58'20", long 83°37'08", Jones County, 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) south-east of Gray.

DRAINAGE AREA.--29 mi<sup>2</sup> (75 km<sup>2</sup>), 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 except those for periods of doubtful or no gage-height record, which are poor.

AVERAGE DISCHARGE.--15 years, 35.8 ft<sup>3</sup>/s (1.01 m<sup>3</sup>/s), 16.76 in/yr (425.7 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,500 ft<sup>3</sup>/s (439 m<sup>3</sup>/s) Dec. 26, 1964, gage height, 23.8 ft (7.25 m), from floodmark, from rating curve extended above 5,000 ft<sup>3</sup>/s (142 m<sup>3</sup>/s) on basis of contracted-opening measurement of peak flow; minimum, 0.48 ft<sup>3</sup>/s (0.014 m<sup>3</sup>/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 discharge above base of 1,000 ft<sup>3</sup>/s (28.3 m<sup>3</sup>/s) and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|--------|------|-------------------------------------------------------|-------------------------|
| May 15 | 1245 | *3420 96.9                                            | 9.79 2.984              |

Minimum discharge, 2.1 ft<sup>3</sup>/s (0.059 m<sup>3</sup>/s) Sept. 12, 13.

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

| DAY         | OCT           | NOV       | DEC      | JAN     | FEB       | MAR      | APR  | MAY  | JUN   | JUL   | AUG   | SEP   |
|-------------|---------------|-----------|----------|---------|-----------|----------|------|------|-------|-------|-------|-------|
| 1           | 13            | 10        | 34       | 95      | 50        | 18       | 71   | 31   | 45    | 10    | 5.0   | 4.2   |
| 2           | 35            | 10        | 20       | 63      | 65        | 18       | 41   | 15   | 66    | 8.9   | 4.6   | 3.9   |
| 3           | 12            | 10        | 16       | 53      | 45        | 16       | 31   | 12   | 38    | 8.1   | 4.6   | 3.2   |
| 4           | 9.9           | 10        | 15       | 45      | 37        | 17       | 27   | 11   | 36    | 9.7   | 4.2   | 3.2   |
| 5           | 9.9           | 10        | 14       | 40      | 34        | 17       | 24   | 11   | 30    | 4.4   | 4.2   | 2.8   |
| 6           | 9.9           | 10        | 14       | 37      | 31        | 18       | 22   | 10   | 23    | 11.1  | 4.2   | 2.5   |
| 7           | 16            | 16        | 14       | 93      | 29        | 18       | 21   | 12   | 20    | 4.1   | 7.5   | 3.6   |
| 8           | 93            | 14        | 14       | 143     | 27        | 17       | 19   | 13   | 18    | 17    | 11    | 3.7   |
| 9           | 29            | 13        | 17       | 67      | 25        | 27       | 18   | 14   | 17    | 12    | 6.0   | 3.5   |
| 10          | 21            | 12        | 16       | 53      | 23        | 23       | 17   | 11   | 16    | 10    | 5.3   | 3.2   |
| 11          | 16            | 12        | 14       | 49      | 22        | 18       | 17   | 11   | 15    | 9.5   | 5.3   | 2.5   |
| 12          | 14            | 15        | 13       | 47      | 20        | 18       | 16   | 14   | 14    | 8.9   | 4.6   | 2.3   |
| 13          | 13            | 26        | 13       | 42      | 20        | 243      | 15   | 11   | 13    | 8.3   | 4.6   | 2.3   |
| 14          | 12            | 23        | 13       | 42      | 20        | 89       | 15   | 10   | 12    | 7.9   | 5.0   | 2.8   |
| 15          | 11            | 15        | 13       | 37      | 21        | 57       | 14   | 1750 | 12    | 7.5   | 4.6   | 1.4   |
| 16          | 11            | 13        | 33       | 35      | 21        | 328      | 14   | 141  | 13    | 7.4   | 4.2   | 6.8   |
| 17          | 50            | 12        | 83       | 34      | 21        | 123      | 13   | 64   | 12    | 7.0   | 4.2   | 5.3   |
| 18          | 170           | 12        | 61       | 31      | 22        | 62       | 13   | 40   | 11    | 7.3   | 10    | 4.9   |
| 19          | 50            | 12        | 33       | 40      | 28        | 47       | 12   | 31   | 17    | 7.0   | 9.0   | 4.6   |
| 20          | 30            | 15        | 23       | 27      | 21        | 39       | 12   | 24   | 16    | 19    | 5.3   | 4.7   |
| 21          | 20            | 17        | 20       | 25      | 19        | 49       | 11   | 20   | 16    | 10    | 4.2   | 5.6   |
| 22          | 16            | 14        | 18       | 24      | 38        | 46       | 11   | 18   | 12    | 7.5   | 4.2   | 5.5   |
| 23          | 14            | 16        | 16       | 23      | 27        | 33       | 11   | 25   | 10    | 6.8   | 4.2   | 4.4   |
| 24          | 13            | 16        | 16       | 23      | 22        | 29       | 11   | 29   | 10    | 6.5   | 4.2   | 4.1   |
| 25          | 12            | 14        | 20       | 22      | 20        | 27       | 15   | 19   | 9.9   | 6.3   | 3.9   | 4.2   |
| 26          | 11            | 14        | 75       | 22      | 20        | 25       | 11   | 17   | 9.5   | 5.9   | 3.9   | 5.4   |
| 27          | 11            | 14        | 50       | 250     | 20        | 25       | 10   | 39   | 9.0   | 10    | 3.6   | 6.8   |
| 28          | 12            | 13        | 35       | 120     | 19        | 24       | 10   | 211  | 8.7   | 6.0   | 4.6   | 7.4   |
| 29          | 12            | 13        | 25       | 80      | 18        | 22       | 10   | 112  | 9.0   | 5.3   | 3.9   | 11    |
| 30          | 11            | 13        | 320      | 70      | ---       | 22       | 35   | 49   | 9.4   | 6.0   | 6.5   | 11    |
| 31          | 10            | ---       | 183      | 43      | ---       | 98       | ---  | 33   | ---   | 5.3   | 6.5   | ---   |
| TOTAL       | 767.7         | 414       | 1251     | 1775    | 785       | 1613     | 567  | 2808 | 547.5 | 437.1 | 163.1 | 174.6 |
| MEAN        | 24.8          | 13.8      | 40.4     | 57.3    | 27.1      | 52.0     | 18.9 | 90.6 | 18.3  | 14.1  | 5.26  | 5.82  |
| MAX         | 170           | 26        | 320      | 250     | 65        | 328      | 71   | 1750 | 66    | 111   | 11    | 28    |
| MIN         | 9.9           | 10        | 13       | 22      | 18        | 16       | 10   | 10   | 8.7   | 5.3   | 3.6   | 2.3   |
| CFSM        | .86           | .48       | 1.39     | 1.98    | .93       | 1.79     | .65  | 3.12 | .63   | .49   | .18   | .20   |
| IN.         | .98           | .53       | 1.60     | 2.28    | 1.01      | 2.07     | .73  | 3.60 | .70   | .56   | .21   | .22   |
| CAL YR 1975 | TOTAL 20170.8 | MEAN 55.3 | MAX 1490 | MIN 6.5 | CFSM 1.91 | IN 25.87 |      |      |       |       |       |       |
| WTR YR 1976 | TOTAL 11303.0 | MEAN 30.9 | MAX 1750 | MIN 2.3 | CFSM 1.07 | IN 14.50 |      |      |       |       |       |       |

NOTE.--Doubtful or no gage-height record Oct. 8 to Nov. 21,  
Dec. 19-30, Jan. 19 to Feb. 13, July 26 to Sept. 8.

## ALTAMAHA RIVER BASIN

02213500 TOBESOFKEE CREEK NEAR MACON, GA.

LOCATION.--Lat 32°48'32", long 83°45'30", Bibb County, 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 mi<sup>2</sup> (471 km<sup>2</sup>).

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.--39 years, 199 ft<sup>3</sup>/s (5.64 m<sup>3</sup>/s), 14.85 in/yr (377.2 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,830 ft<sup>3</sup>/s (278 m<sup>3</sup>/s) Mar. 21, 1944, gage height, 23.2 ft (7.07 m), from rating curve extended above 6,300 ft<sup>3</sup>/s (178 m<sup>3</sup>/s); minimum, 2.3 ft<sup>3</sup>/s (0.065 m<sup>3</sup>/s) Oct. 10, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,680 ft<sup>3</sup>/s (189 m<sup>3</sup>/s) May 15, gage height, 19.40 ft (5.913 m); minimum daily, 34 ft<sup>3</sup>/s (0.96 m<sup>3</sup>/s) Jan. 2, Mar. 7, 8, 10-12.

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

| DAY         | OCT   | NOV    | DEC   | JAN   | FEB  | MAR  | APR  | MAY   | JUN  | JUL  | AUG  | SEP   |
|-------------|-------|--------|-------|-------|------|------|------|-------|------|------|------|-------|
| 1           | 100   | 118    | 188   | 37    | 411  | 144  | 511  | 391   | 308  | 443  | 61   | 71    |
| 2           | 311   | 99     | 184   | 34    | 472  | 113  | 301  | 235   | 142  | 247  | 61   | 74    |
| 3           | 211   | 89     | 156   | 380   | 195  | 112  | 238  | 135   | 308  | 121  | 62   | 79    |
| 4           | 126   | 87     | 133   | 594   | 195  | 112  | 220  | 130   | 253  | 125  | 61   | 79    |
| 5           | 96    | 86     | 126   | 588   | 195  | 112  | 190  | 123   | 217  | 137  | 58   | 76    |
| 6           | 79    | 88     | 123   | 455   | 332  | 84   | 190  | 108   | 157  | 763  | 55   | 341   |
| 7           | 78    | 88     | 119   | 169   | 195  | 34   | 180  | 106   | 135  | 1440 | 61   | 266   |
| 8           | 808   | 93     | 133   | 425   | 194  | 34   | 167  | 119   | 142  | 638  | 67   | 108   |
| 9           | 287   | 95     | 142   | 654   | 194  | 35   | 154  | 130   | 137  | 272  | 78   | 86    |
| 10          | 218   | 97     | 145   | 369   | 193  | 34   | 154  | 132   | 128  | 175  | 78   | 74    |
| 11          | 148   | 103    | 132   | 129   | 193  | 34   | 149  | 125   | 121  | 178  | 79   | 65    |
| 12          | 94    | 291    | 106   | 128   | 194  | 34   | 144  | 125   | 116  | 162  | 78   | 59    |
| 13          | 99    | 272    | 90    | 176   | 191  | 41   | 142  | 123   | 110  | 154  | 74   | 55    |
| 14          | 102   | 167    | 98    | 356   | 190  | 37   | 139  | 443   | 110  | 130  | 71   | 59    |
| 15          | 103   | 118    | 1210  | 289   | 175  | 37   | 132  | 4420  | 114  | 108  | 70   | 62    |
| 16          | 99    | 116    | 1880  | 164   | 139  | 41   | 114  | 1060  | 112  | 93   | 78   | 68    |
| 17          | 342   | 106    | 1450  | 164   | 138  | 63   | 114  | 492   | 106  | 97   | 546  | 70    |
| 18          | 1510  | 101    | 828   | 164   | 138  | 406  | 116  | 345   | 106  | 93   | 241  | 70    |
| 19          | 456   | 96     | 403   | 164   | 139  | 312  | 116  | 194   | 186  | 92   | 110  | 67    |
| 20          | 273   | 92     | 287   | 164   | 84   | 251  | 110  | 48    | 159  | 92   | 84   | 65    |
| 21          | 157   | 93     | 248   | 164   | 35   | 476  | 102  | 54    | 291  | 90   | 74   | 68    |
| 22          | 141   | 99     | 155   | 164   | 35   | 417  | 106  | 67    | 183  | 88   | 59   | 73    |
| 23          | 136   | 105    | 163   | 163   | 118  | 275  | 104  | 253   | 99   | 83   | 55   | 73    |
| 24          | 139   | 105    | 162   | 164   | 176  | 234  | 102  | 325   | 108  | 83   | 54   | 68    |
| 25          | 134   | 109    | 161   | 164   | 186  | 237  | 121  | 183   | 135  | 74   | 55   | 68    |
| 26          | 136   | 115    | 164   | 271   | 324  | 210  | 125  | 142   | 119  | 68   | 61   | 67    |
| 27          | 130   | 111    | 164   | 1110  | 240  | 209  | 108  | 147   | 108  | 68   | 318  | 65    |
| 28          | 130   | 112    | 163   | 1870  | 177  | 219  | 104  | 882   | 102  | 68   | 525  | 68    |
| 29          | 127   | 105    | 164   | 1300  | 165  | 207  | 99   | 2250  | 104  | 67   | 154  | 112   |
| 30          | 123   | 100    | 479   | 243   | ---  | 212  | 123  | 869   | 229  | 65   | 65   | 131   |
| 31          | 126   | ---    | 240   | 242   | ---  | 621  | ---  | 461   | ---  | 61   | 68   | ---   |
| TOTAL       | 7019  | 3456   | 10196 | 11458 | 5613 | 5387 | 4675 | 14617 | 4645 | 6375 | 3561 | 2687  |
| MEAN        | 226   | 115    | 329   | 370   | 194  | 174  | 156  | 472   | 155  | 206  | 115  | 89.6  |
| MAX         | 1510  | 291    | 1880  | 1870  | 472  | 621  | 511  | 4420  | 308  | 1440 | 546  | 341   |
| MIN         | 78    | 86     | 90    | 34    | 35   | 34   | 99   | 48    | 99   | 61   | 54   | 55    |
| CFSM        | 1.24  | .63    | 1.81  | 2.03  | 1.07 | .96  | .86  | 2.59  | .85  | 1.13 | .63  | .49   |
| IN.         | 1.43  | .71    | 2.08  | 2.34  | 1.15 | 1.10 | .96  | 2.99  | .95  | 1.30 | .73  | .55   |
| CAL YR 1975 | TOTAL | 126762 | MEAN  | 347   | MAX  | 4900 | MIN  | 29    | CFSM | 1.91 | IN   | 25.91 |
| WTR YR 1976 | TOTAL | 79689  | MEAN  | 218   | MAX  | 4420 | MIN  | 34    | CFSM | 1.20 | IN   | 16.29 |



## ALTAMAHA RIVER BASIN

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02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.

LOCATION.--Lat 32°40'17", long 83°36'11", Bibb County, 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 mi<sup>2</sup> (6,970 km<sup>2</sup>), 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.

INSTRUMENTATION.--Water-quality since October 1969.

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. Flow regulated by Lloyd Shoals Reservoir (see sta. 02210000).

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                               |               |                             |                                    |
| 08... | 0800 | --                                            | 6.3           | 22.8                        | 7.2                                |
| JAN.  |      |                                               |               |                             |                                    |
| 06... | 1130 | --                                            | 6.5           | 6.0                         | 10.6                               |
| FEB.  |      |                                               |               |                             |                                    |
| 02... | 1630 | --                                            | 6.4           | 8.4                         | 10.4                               |
| MAR.  |      |                                               |               |                             |                                    |
| 02... | 1115 | 2320                                          | 6.9           | 15.7                        | 8.4                                |
| 29... | 1700 | --                                            | 6.2           | 17.6                        | 8.8                                |
| APR.  |      |                                               |               |                             |                                    |
| 14... | 1520 | 2630                                          | 6.1           | 19.5                        | 7.9                                |
| MAY   |      |                                               |               |                             |                                    |
| 10... | 1100 | 1580                                          | 6.4           | 21.0                        | 5.4                                |
| JUNE  |      |                                               |               |                             |                                    |
| 08... | 1430 | 3590                                          | 6.3           | 22.4                        | 6.8                                |
| JULY  |      |                                               |               |                             |                                    |
| 07... | 1430 | --                                            | 6.2           | 22.8                        | 6.9                                |
| AUG.  |      |                                               |               |                             |                                    |
| 18... | 1320 | 2470                                          | 6.2           | 26.8                        | 5.4                                |

| DATE  | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) |
|-------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| OCT.  |                                          |                                                      |                                                    |                                           |                                    |
| 08... | 18                                       | .41                                                  | .02                                                | .21                                       | 14                                 |
| JAN.  |                                          |                                                      |                                                    |                                           |                                    |
| 06... | 19                                       | .60                                                  | .08                                                | .16                                       | 17                                 |
| FEB.  |                                          |                                                      |                                                    |                                           |                                    |
| 02... | 15                                       | .60                                                  | .24                                                | .18                                       | 15                                 |
| MAR.  |                                          |                                                      |                                                    |                                           |                                    |
| 02... | 21                                       | .52                                                  | .17                                                | .16                                       | 16                                 |
| 29... | 16                                       | .37                                                  | .06                                                | .13                                       | --                                 |
| APR.  |                                          |                                                      |                                                    |                                           |                                    |
| 14... | 18                                       | .41                                                  | .11                                                | .15                                       | 16                                 |
| MAY   |                                          |                                                      |                                                    |                                           |                                    |
| 10... | 25                                       | .64                                                  | .36                                                | .15                                       | 20                                 |
| JUNE  |                                          |                                                      |                                                    |                                           |                                    |
| 08... | 16                                       | .35                                                  | .05                                                | .14                                       | 15                                 |
| JULY  |                                          |                                                      |                                                    |                                           |                                    |
| 07... | 18                                       | .34                                                  | .06                                                | .20                                       | 17                                 |
| AUG.  |                                          |                                                      |                                                    |                                           |                                    |
| 18... | 18                                       | .49                                                  | .17                                                | .22                                       | 19                                 |

## ALTAMAHA RIVER BASIN

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>08..  | 64                                                         | 55                                           | 140                          | 1.4                                                          | 93000                                            | 10                                          |
| JAN.<br>06... | 71                                                         | 50                                           | 25                           | .9                                                           | 9300                                             | 7.0                                         |
| FEB.<br>02... | 64                                                         | 120                                          | 84                           | 1.2                                                          | 430                                              | 6.0                                         |
| MAR.<br>02... | --                                                         | 30                                           | 17                           | 1.1                                                          | 75000                                            | 6.0                                         |
| 29...         | 55                                                         | 100                                          | 56                           | .8                                                           | 750                                              | 5.0                                         |
| APR.<br>14... | 71                                                         | 60                                           | 31                           | 1.0                                                          | 93000                                            | 4.0                                         |
| MAY<br>10...  | 91                                                         | 30                                           | 13                           | 1.1                                                          | 930                                              | 12                                          |
| JUNE<br>08... | 62                                                         | 90                                           | 38                           | .7                                                           | 4300                                             | 14                                          |
| JULY<br>07... | 68                                                         | 120                                          | 135                          | 1.3                                                          | 4300                                             | 10                                          |
| AUG.<br>18... | --                                                         | 70                                           | 39                           | 1.6                                                          | 4300                                             | 10                                          |

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

|       | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH     |     |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-----------|-----|
| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | 68      | 65  | ---      | --- | 117      | 96  | ---     | --- | 81       | 65  | 78        | 67  |
| 2     | 64      | 54  | ---      | --- | 104      | 82  | ---     | --- | 82       | 61  | 86        | 57  |
| 3     | 66      | 60  | ---      | --- | 113      | 81  | ---     | --- | 73       | 60  | 84        | 60  |
| 4     | 68      | 62  | ---      | --- | 90       | 80  | ---     | --- | 79       | 59  | 90        | 58  |
| 5     | 69      | 65  | ---      | --- | 115      | 85  | ---     | --- | 79       | 59  | 82        | 54  |
| 6     | 70      | 68  | 118      | 91  | 140      | 92  | 80      | 61  | 92       | 68  | 89        | 64  |
| 7     | 69      | 65  | 118      | 104 | ---      | --- | 76      | 64  | 79       | 68  | 93        | 84  |
| 8     | 68      | 60  | 102      | 86  | ---      | --- | 80      | 70  | 77       | 63  | 100       | 94  |
| 9     | 67      | 55  | 111      | 96  | ---      | --- | 72      | 68  | 77       | 56  | 98        | 60  |
| 10    | 69      | 65  | 100      | 90  | ---      | --- | 78      | 66  | 81       | 61  | 93        | 64  |
| 11    | 72      | 53  | 99       | 81  | ---      | --- | 88      | 73  | 92       | 66  | 104       | 62  |
| 12    | 75      | 53  | 104      | 78  | ---      | --- | 83      | 67  | 96       | 61  | 91        | 67  |
| 13    | 77      | 70  | ---      | --- | ---      | --- | 71      | 54  | 97       | 73  | 108       | 63  |
| 14    | 86      | 64  | ---      | --- | ---      | --- | 67      | 46  | 99       | 72  | 90        | 62  |
| 15    | 106     | 66  | 88       | 81  | 97       | 88  | 51      | 45  | 90       | 71  | 75        | 72  |
| 16    | 110     | 50  | 98       | 86  | 117      | 94  | 63      | 49  | 90       | 72  | 75        | 66  |
| 17    | 86      | 48  | 105      | 92  | ---      | --- | 79      | 63  | 80       | 50  | 69        | 59  |
| 18    | 92      | 48  | 95       | 91  | ---      | --- | 75      | 65  | 73       | 50  | 61        | 50  |
| 19    | 61      | 47  | 98       | 86  | ---      | --- | 80      | 68  | 82       | 46  | 50        | 39  |
| 20    | 61      | 48  | 125      | 104 | ---      | --- | 69      | 67  | 87       | 75  | 43        | 33  |
| 21    | 79      | 47  | 115      | 85  | ---      | --- | 93      | 76  | 82       | 60  | 47        | 41  |
| 22    | 88      | 61  | 107      | 86  | ---      | --- | 98      | 80  | 83       | 67  | 54        | 48  |
| 23    | 85      | 68  | 110      | 90  | ---      | --- | 93      | 75  | 71       | 57  | 58        | 47  |
| 24    | 84      | 58  | 118      | 87  | ---      | --- | 99      | 77  | 74       | 63  | 55        | 48  |
| 25    | ---     | --- | 104      | 87  | ---      | --- | 113     | 96  | 76       | 63  | 55        | 50  |
| 26    | ---     | --- | 130      | 96  | ---      | --- | 121     | 98  | 77       | 62  | 58        | 53  |
| 27    | ---     | --- | 131      | 112 | ---      | --- | 98      | 71  | 83       | 64  | 63        | 57  |
| 28    | ---     | --- | 118      | 93  | ---      | --- | 91      | 61  | 80       | 65  | 66        | 58  |
| 29    | ---     | --- | 119      | 96  | ---      | --- | 62      | 56  | 81       | 70  | 65        | 53  |
| 30    | ---     | --- | 137      | 109 | ---      | --- | 88      | 61  | ---      | --- | 71        | 57  |
| 31    | ---     | --- | ---      | --- | ---      | --- | 75      | 56  | ---      | --- | 71        | 61  |
| MONTH | ---     | --- | ---      | --- | ---      | --- | 121     | 45  | 99       | 46  | 108       | 33  |
|       | APRIL   |     | MAY      |     | JUNE     |     | JULY    |     | AUGUST   |     | SEPTEMBER |     |
| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | 80      | 62  | 92       | 73  | 66       | 53  | 86      | 74  | ---      | --- | 110       | 99  |
| 2     | 67      | 54  | 90       | 78  | 62       | 57  | 78      | 69  | ---      | --- | 120       | 108 |
| 3     | 63      | 55  | 91       | 73  | 61       | 52  | 75      | 70  | ---      | --- | 114       | 90  |
| 4     | ---     | --- | 90       | 72  | 64       | 55  | 86      | 66  | 108      | 108 | 104       | 84  |
| 5     | ---     | --- | 87       | 66  | 64       | 53  | 83      | 67  | ---      | --- | 90        | 80  |
| 6     | ---     | --- | 80       | 61  | 70       | 53  | 72      | 66  | 119      | 113 | 84        | 80  |
| 7     | ---     | --- | 74       | 65  | 72       | 59  | 73      | 61  | 124      | 90  | 88        | 80  |
| 8     | ---     | --- | 73       | 65  | 70       | 52  | 65      | 54  | 87       | 80  | 94        | 84  |
| 9     | ---     | --- | 84       | 75  | 68       | 47  | 64      | 56  | 79       | 71  | 94        | 84  |
| 10    | ---     | --- | 92       | 79  | 74       | 49  | 64      | 55  | 85       | 70  | 110       | 90  |
| 11    | ---     | --- | 90       | 73  | 75       | 60  | 69      | 55  | 95       | 70  | 120       | 110 |
| 12    | ---     | --- | 88       | 72  | 76       | 63  | 73      | 56  | 97       | 73  | 120       | 110 |
| 13    | ---     | --- | 87       | 77  | 77       | 62  | 76      | 64  | 108      | 96  | 120       | 108 |
| 14    | 71      | 63  | 88       | 73  | 84       | 64  | 85      | 69  | 96       | 82  | 134       | 114 |
| 15    | 75      | 62  | 91       | 64  | 97       | 74  | 84      | 68  | 99       | 82  | 120       | 110 |
| 16    | 72      | 59  | 71       | 64  | 86       | 69  | 83      | 66  | 103      | 98  | 118       | 100 |
| 17    | 117     | 64  | 71       | 65  | 81       | 68  | 85      | 75  | 101      | 82  | 129       | 101 |
| 18    | 107     | 57  | 78       | 70  | 78       | 66  | 90      | 80  | 90       | 62  | 135       | 115 |
| 19    | 77      | 59  | 92       | 72  | 74       | 67  | 102     | 97  | 67       | 62  | 120       | 106 |
| 20    | 78      | 52  | 99       | 81  | 77       | 66  | 100     | 96  | 80       | 64  | 123       | 111 |
| 21    | 72      | 59  | 89       | 70  | 72       | 58  | ---     | --- | 94       | 80  | 128       | 112 |
| 22    | 77      | 66  | 83       | 75  | 69       | 53  | ---     | --- | 98       | 88  | 122       | 114 |
| 23    | 82      | 63  | 80       | 73  | 69       | 55  | ---     | --- | 104      | 90  | 125       | 115 |
| 24    | 85      | 65  | 89       | 76  | 68       | 58  | ---     | --- | 104      | 74  | 126       | 116 |
| 25    | 80      | 70  | 83       | 66  | 78       | 64  | ---     | --- | 94       | 80  | 126       | 104 |
| 26    | 92      | 81  | 85       | 70  | 77       | 63  | ---     | --- | 105      | 90  | 117       | 101 |
| 27    | 99      | 72  | 99       | 85  | 77       | 63  | ---     | --- | 108      | 100 | 122       | 106 |
| 28    | 90      | 69  | 93       | 59  | 80       | 74  | ---     | --- | 108      | 84  | 119       | 109 |
| 29    | 89      | 65  | 70       | 63  | 84       | 78  | ---     | --- | 94       | 80  | 123       | 99  |
| 30    | 85      | 72  | 66       | 56  | 87       | 75  | ---     | --- | 100      | 84  | 110       | 94  |
| 31    | ---     | --- | 63       | 53  | ---      | --- | ---     | --- | 112      | 98  | ---       | --- |
| MONTH | ---     | --- | 99       | 53  | 97       | 47  | ---     | --- | 124      | 62  | 135       | 80  |

## ALTAMAHA RIVER BASIN

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

PH (UNITS), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

|       | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH     |     |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-----------|-----|
| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | 6.5     | 6.3 | 6.5      | 6.2 | 6.9      | 6.5 | ---     | --- | 7.0      | 6.7 | 7.0       | 6.5 |
| 2     | 6.6     | 6.4 | 6.6      | 6.3 | 6.9      | 6.6 | ---     | --- | 7.2      | 6.7 | 6.9       | 6.4 |
| 3     | 6.6     | 6.4 | 6.6      | 6.2 | 7.0      | 6.6 | ---     | --- | 7.2      | 6.8 | 6.8       | 6.5 |
| 4     | 6.6     | 6.5 | 6.5      | 6.2 | 7.1      | 6.7 | ---     | --- | 7.2      | 6.7 | 6.8       | 6.4 |
| 5     | 6.6     | 6.5 | 6.9      | 6.1 | 7.0      | 6.6 | ---     | --- | 7.2      | 6.7 | 6.7       | 6.4 |
| 6     | 6.6     | 6.4 | 7.0      | 6.8 | 6.9      | 6.6 | 6.8     | 5.6 | 7.1      | 6.8 | 6.7       | 6.4 |
| 7     | 6.6     | 6.5 | 6.9      | 6.7 | ---      | --- | 6.4     | 6.0 | 7.1      | 6.9 | 6.7       | 6.4 |
| 8     | 6.5     | 6.1 | 6.9      | 6.8 | ---      | --- | 6.4     | 6.1 | 7.1      | 6.9 | 6.9       | 6.5 |
| 9     | 6.3     | 6.1 | 7.0      | 6.9 | ---      | --- | 6.4     | 6.1 | 7.1      | 6.8 | 6.8       | 6.5 |
| 10    | 6.5     | 6.1 | 7.1      | 6.9 | ---      | --- | 6.4     | 6.1 | 7.2      | 6.8 | 6.8       | 6.5 |
| 11    | 6.5     | 6.2 | 7.0      | 6.8 | ---      | --- | 6.4     | 6.1 | 7.1      | 6.8 | 6.9       | 6.6 |
| 12    | 6.5     | 6.2 | 7.0      | 6.8 | ---      | --- | 6.6     | 6.0 | 7.1      | 6.6 | 6.8       | 6.6 |
| 13    | 6.5     | 6.2 | 6.8      | 6.7 | ---      | --- | 6.7     | 6.1 | 6.8      | 6.4 | 7.0       | 6.5 |
| 14    | 6.5     | 6.2 | 6.8      | 6.6 | ---      | --- | 6.6     | 5.4 | 6.8      | 6.3 | 6.8       | 6.6 |
| 15    | 6.6     | 6.2 | 6.9      | 6.6 | 6.9      | 6.6 | 6.5     | 5.5 | 6.8      | 6.5 | 6.7       | 6.6 |
| 16    | 6.5     | 6.3 | 6.9      | 6.5 | 6.9      | 6.7 | 6.6     | 6.1 | 7.0      | 6.6 | 6.8       | 6.2 |
| 17    | 6.5     | 6.3 | 6.8      | 6.5 | ---      | --- | 6.5     | 6.3 | 7.1      | 6.8 | 6.6       | 6.2 |
| 18    | 6.5     | 6.1 | 6.7      | 6.4 | ---      | --- | 6.5     | 6.3 | 7.1      | 6.7 | 6.6       | 6.2 |
| 19    | 6.5     | 6.0 | 7.0      | 6.3 | ---      | --- | 6.7     | 6.2 | 7.0      | 6.7 | 6.5       | 6.0 |
| 20    | 6.5     | 6.0 | 7.0      | 6.5 | ---      | --- | 6.5     | 6.4 | 7.1      | 6.6 | 6.5       | 6.0 |
| 21    | 6.6     | 6.2 | 7.0      | 6.6 | ---      | --- | 6.9     | 6.7 | 7.0      | 6.7 | 6.3       | 6.0 |
| 22    | 6.7     | 6.4 | 7.0      | 6.7 | ---      | --- | 6.9     | 6.6 | 7.0      | 6.7 | 6.5       | 6.1 |
| 23    | 6.7     | 6.4 | 7.0      | 6.6 | ---      | --- | 7.0     | 6.7 | 7.0      | 6.7 | 6.7       | 6.1 |
| 24    | 6.5     | 6.2 | 6.9      | 6.6 | ---      | --- | 7.0     | 6.6 | 7.1      | 6.7 | 6.6       | 6.1 |
| 25    | 6.4     | 6.2 | 6.9      | 6.7 | ---      | --- | 6.9     | 6.7 | 7.0      | 6.7 | 6.6       | 6.1 |
| 26    | 6.4     | 6.1 | 7.0      | 6.7 | ---      | --- | 6.9     | 6.6 | 7.0      | 6.7 | 6.6       | 6.1 |
| 27    | 6.4     | 6.2 | 7.0      | 6.7 | ---      | --- | 6.8     | 6.6 | 7.0      | 6.6 | 6.5       | 6.1 |
| 28    | 6.5     | 6.2 | 7.0      | 6.6 | ---      | --- | 6.8     | 6.4 | 7.0      | 6.6 | 6.6       | 6.1 |
| 29    | 6.5     | 6.1 | 6.9      | 6.6 | ---      | --- | 6.9     | 6.5 | 7.0      | 6.5 | 6.5       | 6.2 |
| 30    | 6.5     | 6.2 | 6.8      | 6.5 | ---      | --- | 7.0     | 6.5 | ---      | --- | 6.8       | 6.2 |
| 31    | 6.5     | 6.2 | ---      | --- | 7.3      | 7.2 | 7.0     | 6.6 | ---      | --- | 6.7       | 6.3 |
| MONTH | 6.7     | 6.0 | 7.1      | 6.1 | ---      | --- | 7.0     | 5.4 | 7.2      | 6.3 | 7.0       | 6.0 |
|       | APRIL   |     | MAY      |     | JUNE     |     | JULY    |     | AUGUST   |     | SEPTEMBER |     |
| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | 7.0     | 6.4 | 6.4      | 6.3 | 6.3      | 5.8 | 6.4     | 6.0 | ---      | --- | 6.2       | 5.9 |
| 2     | 6.7     | 6.4 | 6.5      | 6.3 | 6.2      | 5.9 | 6.4     | 5.9 | ---      | --- | 6.0       | 5.6 |
| 3     | 6.8     | 6.5 | 6.6      | 6.2 | 6.1      | 5.9 | 6.4     | 6.0 | ---      | --- | 6.0       | 5.6 |
| 4     | ---     | --- | 6.5      | 6.2 | 6.2      | 5.9 | 6.4     | 6.1 | 6.2      | 5.9 | 5.9       | 5.8 |
| 5     | ---     | --- | 6.5      | 6.2 | 6.2      | 6.0 | 6.5     | 6.0 | 6.4      | 6.0 | 6.0       | 5.8 |
| 6     | ---     | --- | 6.5      | 6.2 | 6.4      | 5.9 | 6.5     | 6.1 | 6.3      | 5.9 | 6.0       | 5.8 |
| 7     | ---     | --- | 6.3      | 6.0 | 6.3      | 6.0 | 6.4     | 6.1 | 6.2      | 5.9 | 5.9       | 5.7 |
| 8     | ---     | --- | 6.3      | 6.0 | 6.6      | 6.0 | 6.4     | 6.0 | 6.3      | 5.9 | 6.1       | 5.7 |
| 9     | ---     | --- | 6.4      | 5.9 | 6.6      | 6.3 | 6.4     | 6.2 | 6.3      | 6.0 | 6.0       | 5.7 |
| 10    | ---     | --- | 6.6      | 5.9 | 6.7      | 6.3 | 6.7     | 6.1 | 6.4      | 6.0 | 5.9       | 5.7 |
| 11    | ---     | --- | 6.7      | 6.4 | 6.7      | 6.3 | 6.5     | 6.2 | 6.4      | 5.9 | 6.1       | 5.8 |
| 12    | ---     | --- | 6.7      | 6.3 | 6.7      | 6.3 | 6.6     | 6.3 | 6.4      | 5.9 | 6.1       | 5.8 |
| 13    | ---     | --- | 6.7      | 6.4 | 6.7      | 6.3 | 6.6     | 6.2 | 6.3      | 5.9 | 6.2       | 5.9 |
| 14    | 6.4     | 6.2 | 6.6      | 6.4 | 6.7      | 6.3 | 6.6     | 6.3 | 6.3      | 5.9 | 6.1       | 5.9 |
| 15    | 6.4     | 6.1 | 6.6      | 6.1 | 6.7      | 6.3 | 6.7     | 6.4 | 6.2      | 5.9 | 6.3       | 6.0 |
| 16    | 6.4     | 6.2 | 6.4      | 6.0 | 6.6      | 6.4 | 6.6     | 6.3 | 6.3      | 5.9 | 6.5       | 6.0 |
| 17    | 6.6     | 6.2 | 6.5      | 6.0 | 6.7      | 6.2 | 6.6     | 6.3 | 6.2      | 6.0 | 6.6       | 6.3 |
| 18    | 6.5     | 6.2 | 6.4      | 6.0 | 6.6      | 6.2 | 6.7     | 6.2 | 6.5      | 6.0 | 6.6       | 6.3 |
| 19    | 6.5     | 6.1 | 6.4      | 6.0 | 6.6      | 6.3 | 6.7     | 6.4 | 6.5      | 6.2 | 6.6       | 6.3 |
| 20    | 6.5     | 6.2 | 6.5      | 6.1 | 6.5      | 6.3 | ---     | --- | 6.4      | 6.2 | 6.5       | 6.2 |
| 21    | 6.5     | 6.3 | 6.3      | 5.8 | 6.5      | 6.1 | ---     | --- | 6.5      | 6.1 | 6.6       | 6.1 |
| 22    | 6.5     | 6.2 | 6.3      | 5.9 | 6.4      | 6.0 | ---     | --- | 6.3      | 6.0 | 6.8       | 6.2 |
| 23    | 6.5     | 5.9 | 6.1      | 5.9 | 6.3      | 6.0 | ---     | --- | 6.3      | 5.9 | 6.8       | 6.3 |
| 24    | 6.5     | 6.1 | 6.2      | 5.7 | 6.3      | 6.0 | ---     | --- | 6.1      | 5.8 | 6.7       | 6.2 |
| 25    | 6.7     | 6.3 | 6.1      | 5.7 | 6.3      | 6.0 | ---     | --- | 6.0      | 5.8 | 6.6       | 6.2 |
| 26    | 6.6     | 6.3 | 6.1      | 5.8 | 6.2      | 6.0 | ---     | --- | 6.0      | 5.8 | 6.4       | 6.0 |
| 27    | 6.6     | 6.4 | 6.1      | 5.9 | 6.3      | 6.1 | 6.5     | 6.1 | 6.0      | 5.7 | 6.3       | 6.0 |
| 28    | 6.6     | 6.4 | 6.2      | 5.9 | 6.3      | 6.2 | 6.4     | 6.0 | 6.1      | 5.7 | 6.3       | 6.0 |
| 29    | 6.7     | 6.4 | 6.1      | 5.9 | 6.4      | 6.1 | ---     | --- | 6.1      | 5.7 | 6.3       | 5.9 |
| 30    | 6.5     | 6.4 | 6.1      | 5.7 | 6.3      | 6.1 | ---     | --- | 6.0      | 5.6 | 6.2       | 5.8 |
| 31    | ---     | --- | 6.2      | 5.7 | ---      | --- | ---     | --- | 6.0      | 5.8 | ---       | --- |
| MONTH | ---     | --- | 6.7      | 5.7 | 6.7      | 5.8 | ---     | --- | 6.5      | 5.6 | 6.8       | 5.6 |

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

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

## ALTAMAHA RIVER BASIN

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

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

|       | OCTOBER |     | NOVEMBER |     | DECEMBER |      | JANUARY |      | FEBRUARY |      | MARCH     |     |
|-------|---------|-----|----------|-----|----------|------|---------|------|----------|------|-----------|-----|
| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX       | MIN |
| 1     | 7.0     | 5.4 | 7.0      | 5.3 | 9.4      | 8.3  | ---     | ---  | 10.3     | 9.8  | 9.7       | 9.3 |
| 2     | 7.4     | 5.5 | 8.1      | 6.1 | 9.7      | 8.5  | ---     | ---  | 10.8     | 10.0 | 10.0      | 8.4 |
| 3     | 7.2     | 6.2 | 8.3      | 7.1 | 10.4     | 9.3  | ---     | ---  | 10.9     | 10.4 | 10.3      | 9.4 |
| 4     | 7.4     | 6.9 | 7.3      | 6.4 | 10.6     | 10.0 | ---     | ---  | 10.8     | 10.3 | 9.9       | 9.0 |
| 5     | 7.3     | 6.5 | 7.7      | 6.7 | 10.5     | 9.7  | ---     | ---  | 10.8     | 10.2 | 9.8       | 9.0 |
| 6     | 7.0     | 6.3 | 7.5      | 6.1 | 9.8      | 8.2  | 11.5    | 10.2 | 10.5     | 9.7  | 9.6       | 8.3 |
| 7     | 7.2     | 6.7 | 7.7      | 6.1 | ---      | ---  | 11.6    | 9.3  | 10.3     | 9.6  | 9.0       | 8.2 |
| 8     | 7.4     | 7.0 | 7.8      | 6.7 | ---      | ---  | 12.0    | 9.6  | 11.0     | 10.3 | 8.7       | 8.2 |
| 9     | 7.2     | 6.8 | 7.3      | 6.8 | ---      | ---  | 11.9    | 11.5 | 11.2     | 10.7 | 9.4       | 8.1 |
| 10    | 7.3     | 7.1 | 7.6      | 7.0 | ---      | ---  | 11.9    | 9.6  | 11.3     | 10.9 | 9.3       | 8.5 |
| 11    | 7.6     | 7.4 | 7.3      | 6.7 | ---      | ---  | 11.7    | 9.2  | 11.1     | 10.5 | 9.5       | 8.8 |
| 12    | 7.7     | 7.5 | 7.1      | 6.4 | ---      | ---  | 12.5    | 10.8 | 10.8     | 10.2 | 9.5       | 9.0 |
| 13    | 7.7     | 7.2 | ---      | --- | ---      | ---  | 12.5    | 11.7 | 10.6     | 9.3  | 9.1       | 7.8 |
| 14    | 7.5     | 7.1 | ---      | --- | ---      | ---  | 11.7    | 10.7 | 10.2     | 9.4  | 8.9       | 8.4 |
| 15    | 7.4     | 6.1 | 8.5      | 8.0 | 9.4      | 8.8  | 11.0    | 10.4 | 10.2     | 9.4  | 8.9       | 8.7 |
| 16    | 7.2     | 6.1 | 9.0      | 8.5 | 9.2      | 8.9  | 11.2    | 10.8 | 9.9      | 8.4  | 9.0       | 8.6 |
| 17    | 7.4     | 6.4 | 9.0      | 8.0 | ---      | ---  | 12.2    | 11.2 | 10.0     | 8.3  | 9.4       | 8.9 |
| 18    | 7.5     | 6.5 | 8.8      | 8.0 | ---      | ---  | 12.5    | 12.1 | 9.9      | 8.4  | 9.6       | 9.2 |
| 19    | 7.2     | 7.0 | 9.3      | 8.0 | ---      | ---  | 12.7    | 12.4 | 9.9      | 9.2  | 9.5       | 9.0 |
| 20    | 7.4     | 7.1 | 9.2      | 7.8 | ---      | ---  | 12.7    | 12.5 | 9.8      | 8.6  | 9.4       | 8.8 |
| 21    | 7.5     | 6.7 | 8.7      | 7.7 | ---      | ---  | 12.3    | 11.0 | 10.5     | 9.3  | 9.1       | 8.5 |
| 22    | 7.5     | 6.7 | 9.0      | 8.1 | ---      | ---  | 11.8    | 10.8 | 10.5     | 8.9  | 8.9       | 8.6 |
| 23    | 7.7     | 7.2 | 9.3      | 8.4 | ---      | ---  | 11.6    | 10.6 | 10.7     | 9.5  | 9.2       | 8.8 |
| 24    | 8.2     | 7.2 | 10.3     | 8.4 | ---      | ---  | 11.6    | 10.5 | 10.8     | 10.3 | 9.4       | 9.0 |
| 25    | 8.0     | 7.1 | 10.5     | 9.4 | ---      | ---  | 10.8    | 9.3  | 10.9     | 10.5 | 9.4       | 8.9 |
| 26    | 7.3     | 5.3 | 9.8      | 9.3 | ---      | ---  | 9.6     | 8.8  | 10.9     | 10.3 | 9.2       | 8.7 |
| 27    | 7.4     | 4.6 | 10.3     | 9.4 | ---      | ---  | 9.6     | 8.6  | 10.7     | 9.8  | 8.9       | 8.5 |
| 28    | 7.0     | 5.5 | 9.4      | 8.4 | ---      | ---  | 10.2    | 9.4  | 10.4     | 9.5  | 8.9       | 8.5 |
| 29    | 6.5     | 5.2 | 9.7      | 9.2 | ---      | ---  | 10.9    | 10.2 | 10.0     | 9.2  | 8.8       | 8.5 |
| 30    | 6.7     | 4.7 | 9.4      | 8.8 | ---      | ---  | 10.8    | 10.3 | ---      | ---  | 8.7       | 8.1 |
| 31    | 6.5     | 4.6 | ---      | --- | 11.0     | 10.8 | 10.6    | 10.0 | ---      | ---  | 8.6       | 8.0 |
| MONTH | 8.2     | 4.6 | 10.5     | 5.3 | ---      | ---  | 12.7    | 8.6  | 11.3     | 8.3  | 10.3      | 7.8 |
|       | APRIL   |     | MAY      |     | JUNE     |      | JULY    |      | AUGUST   |      | SEPTEMBER |     |
| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX       | MIN |
| 1     | 8.9     | 8.6 | 6.2      | 5.5 | 7.1      | 5.6  | 5.6     | 4.7  | ---      | ---  | 5.2       | 4.5 |
| 2     | 9.1     | 8.8 | 6.3      | 5.8 | 6.5      | 5.3  | 5.7     | 4.9  | ---      | ---  | 5.1       | 4.1 |
| 3     | 9.2     | 8.8 | 6.3      | 6.0 | 6.2      | 5.1  | 5.4     | 4.7  | ---      | ---  | 5.0       | 4.2 |
| 4     | ---     | --- | 6.5      | 5.9 | 5.3      | 4.5  | 5.4     | 4.5  | 4.8      | 4.5  | 4.9       | 4.4 |
| 5     | ---     | --- | 6.7      | 5.9 | 6.9      | 4.5  | 6.2     | 4.7  | 5.1      | 4.3  | 5.0       | 4.7 |
| 6     | ---     | --- | 6.2      | 5.6 | 6.7      | 4.9  | 7.0     | 5.8  | 4.8      | 4.4  | 5.4       | 5.2 |
| 7     | ---     | --- | 6.2      | 5.4 | 7.1      | 5.7  | 7.1     | 6.5  | 5.1      | 4.4  | 5.7       | 5.4 |
| 8     | ---     | --- | 6.2      | 5.5 | 7.4      | 6.7  | 7.0     | 6.4  | 5.3      | 4.5  | 5.9       | 5.0 |
| 9     | ---     | --- | 6.5      | 5.4 | 7.7      | 7.1  | 6.5     | 6.1  | 5.1      | 4.6  | 5.8       | 5.3 |
| 10    | ---     | --- | 6.5      | 5.4 | 7.7      | 6.8  | 6.3     | 5.8  | 5.1      | 4.1  | 5.5       | 4.7 |
| 11    | ---     | --- | 6.7      | 6.0 | 7.4      | 6.3  | 6.1     | 5.2  | 5.5      | 4.5  | 5.4       | 5.0 |
| 12    | ---     | --- | 7.4      | 6.3 | 7.1      | 5.7  | 5.8     | 5.2  | 6.2      | 4.6  | 5.9       | 5.4 |
| 13    | ---     | --- | 7.8      | 6.6 | 6.7      | 5.9  | 5.5     | 4.6  | 5.7      | 4.7  | 6.1       | 5.8 |
| 14    | 8.0     | 7.8 | 7.8      | 7.2 | 6.7      | 5.7  | 5.2     | 4.6  | 6.1      | 5.0  | 6.2       | 5.3 |
| 15    | 8.2     | 7.9 | 8.2      | 6.9 | 6.1      | 5.0  | 5.1     | 4.2  | 6.3      | 5.1  | 6.0       | 5.3 |
| 16    | 8.4     | 8.1 | 7.2      | 6.9 | 5.6      | 5.1  | 5.1     | 4.3  | ---      | ---  | 6.3       | 5.5 |
| 17    | 8.8     | 8.2 | 7.5      | 7.3 | 5.9      | 5.3  | 5.3     | 4.4  | ---      | ---  | 6.8       | 6.3 |
| 18    | 8.3     | 7.3 | 7.3      | 6.2 | 5.8      | 5.2  | 5.3     | 4.3  | 5.5      | 5.2  | 6.7       | 5.5 |
| 19    | 8.0     | 6.5 | 7.2      | 6.2 | 5.9      | 5.1  | 4.9     | 4.0  | 5.5      | 5.3  | 6.1       | 5.6 |
| 20    | 7.3     | 6.2 | ---      | --- | 5.8      | 5.5  | 5.1     | 4.5  | 5.5      | 4.6  | 6.0       | 5.2 |
| 21    | 7.3     | 6.3 | ---      | --- | 7.8      | 5.9  | ---     | ---  | 4.9      | 4.0  | 5.6       | 4.6 |
| 22    | 7.1     | 5.9 | ---      | --- | 8.6      | 7.5  | ---     | ---  | ---      | ---  | 5.4       | 4.3 |
| 23    | 7.2     | 6.1 | ---      | --- | 8.6      | 7.7  | ---     | ---  | ---      | ---  | 4.9       | 4.6 |
| 24    | 7.3     | 6.4 | ---      | --- | 8.0      | 6.2  | ---     | ---  | ---      | ---  | 5.5       | 5.1 |
| 25    | 7.0     | 5.6 | ---      | --- | 7.5      | 5.9  | ---     | ---  | ---      | ---  | 5.6       | 5.2 |
| 26    | 5.9     | 5.3 | 6.7      | 5.3 | 6.6      | 5.4  | ---     | ---  | ---      | ---  | 6.1       | 5.4 |
| 27    | 5.9     | 5.0 | 5.8      | 5.1 | 6.5      | 5.4  | 4.8     | 4.5  | 4.8      | 4.0  | 6.0       | 5.3 |
| 28    | 6.2     | 5.3 | 7.9      | 5.7 | 6.1      | 5.6  | 4.9     | 4.3  | 4.9      | 4.1  | 5.7       | 5.3 |
| 29    | 6.4     | 5.7 | 7.5      | 5.9 | 5.8      | 4.7  | ---     | ---  | 4.8      | 4.2  | 5.7       | 5.5 |
| 30    | 6.6     | 5.9 | 7.1      | 5.3 | 5.2      | 4.6  | ---     | ---  | 4.9      | 4.4  | 5.9       | 5.7 |
| 31    | ---     | --- | 7.1      | 5.6 | ---      | ---  | ---     | ---  | 5.3      | 4.4  | ---       | --- |
| MONTH | ---     | --- | 8.2      | 5.1 | 8.6      | 4.5  | ---     | ---  | ---      | ---  | 6.8       | 4.1 |



02214265 OCMULGEE RIVER NEAR BONAIRE, GA.

LOCATION.--Lat 32°32'33", long 83°32'13", Houston County, 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                               |               |                             |                                    |
| 06... | 1000 | --                                            | 6.9           | 18.0                        | 6.3                                |
| DEC.  |      |                                               |               |                             |                                    |
| 01... | 1230 | 2450                                          | 7.0           | 13.0                        | 8.2                                |
| JAN.  |      |                                               |               |                             |                                    |
| 05... | 1130 | 4760                                          | 6.8           | 5.0                         | 11.4                               |
| FEB.  |      |                                               |               |                             |                                    |
| 02... | 1030 | --                                            | 6.7           | 7.0                         | 10.0                               |
| MAR.  |      |                                               |               |                             |                                    |
| 08... | 1015 | 2460                                          | 7.2           | 15.0                        | 8.6                                |
| APR.  |      |                                               |               |                             |                                    |
| 05... | 0900 | 5450                                          | 6.7           | 15.5                        | 8.6                                |
| MAY   |      |                                               |               |                             |                                    |
| 03... | 1150 | 3080                                          | 7.1           | 19.0                        | 7.5                                |
| JUNE  |      |                                               |               |                             |                                    |
| 07... | 1000 | 4540                                          | 6.7           | 18.5                        | 8.4                                |
| JULY  |      |                                               |               |                             |                                    |
| 06... | 0900 | 2670                                          | 6.3           | 23.5                        | 7.9                                |
| AUG.  |      |                                               |               |                             |                                    |
| 02... | 1100 | 1830                                          | 7.0           | 28.0                        | 5.0                                |
| SEP.  |      |                                               |               |                             |                                    |
| 13... | 0830 | 1040                                          | 6.9           | 22.0                        | 6.6                                |

| DATE  | ALKA-<br>LINITY<br>AS<br>CaCO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) |
|-------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|
| DEC.  |                                          |                                                      |                                                    |                                           |                                     |
| 01... | 22                                       | .70                                                  | 31                                                 | .16                                       | 18                                  |
| JAN.  |                                          |                                                      |                                                    |                                           |                                     |
| 05... | 17                                       | .50                                                  | --                                                 | .14                                       | 24                                  |
| FEB.  |                                          |                                                      |                                                    |                                           |                                     |
| 02... | 13                                       | .50                                                  | .07                                                | .12                                       | 14                                  |
| MAR.  |                                          |                                                      |                                                    |                                           |                                     |
| 08... | 23                                       | .53                                                  | .10                                                | .18                                       | 20                                  |
| APR.  |                                          |                                                      |                                                    |                                           |                                     |
| 05... | 15                                       | .33                                                  | <.02                                               | .08                                       | 14                                  |
| MAY   |                                          |                                                      |                                                    |                                           |                                     |
| 03... | 19                                       | .52                                                  | .10                                                | .13                                       | 17                                  |
| JUNE  |                                          |                                                      |                                                    |                                           |                                     |
| 07... | 16                                       | .31                                                  | <.02                                               | .09                                       | 18                                  |
| JULY  |                                          |                                                      |                                                    |                                           |                                     |
| 06... | 20                                       | .60                                                  | .90                                                | .13                                       | 16                                  |
| AUG.  |                                          |                                                      |                                                    |                                           |                                     |
| 02... | 23                                       | .61                                                  | .11                                                | .23                                       | 16                                  |
| SEP.  |                                          |                                                      |                                                    |                                           |                                     |
| 13... | 24                                       | .56                                                  | .11                                                | .17                                       | 19                                  |

## ALTAMAHA RIVER BASIN

02214265 OCMULGEE RIVER NEAR BONAIRE, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| DEC.<br>01... | 85                                                         | 20                                           | 11                           | .6                                                           | 1500                                             | --                                          |
| JAN.<br>05... | 73                                                         | 55                                           | 19                           | .8                                                           | 430                                              | --                                          |
| FEB.<br>02... | 63                                                         | 100                                          | 56                           | 1.1                                                          | 230                                              | 6.0                                         |
| MAR.<br>08... | 68                                                         | 30                                           | 16                           | .8                                                           | 930                                              | 5.0                                         |
| APR.<br>05... | 60                                                         | 35                                           | 26                           | .8                                                           | 91                                               | 5.0                                         |
| MAY<br>03...  | 72                                                         | 40                                           | 23                           | .8                                                           | 750                                              | 4.0                                         |
| JUNE<br>07... | 59                                                         | 100                                          | 34                           | 1.3                                                          | 430                                              | 6.0                                         |
| JULY<br>06... | 73                                                         | 30                                           | 24                           | --                                                           | --                                               | 4.0                                         |
| AUG.<br>02... | 96                                                         | 40                                           | 22                           | --                                                           | --                                               | 6.0                                         |
| SEP.<br>13... | 103                                                        | 35                                           | 7                            | .9                                                           | 430                                              | 7.0                                         |

ALTAMAHA RIVER BASIN

125

02215260 OCMULGEE RIVER AT ABBEVILLE, GA.

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

DRAINAGE AREA.--4,450 mi<sup>2</sup> (11,500 km<sup>2</sup>), 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                               |               |                             |                                    |
| 06... | 0800 | 5320                                          | 6.1           | 19.0                        | 6.0                                |
| DEC.  |      |                                               |               |                             |                                    |
| 01... | 1030 | 2890                                          | 6.5           | 11.0                        | 9.4                                |
| JAN.  |      |                                               |               |                             |                                    |
| 05... | 0930 | 5670                                          | 6.3           | 7.0                         | 9.4                                |
| FEB.  |      |                                               |               |                             |                                    |
| 02... | 1030 | 9080                                          | 6.1           | 6.0                         | 10.5                               |
| MAR.  |      |                                               |               |                             |                                    |
| 08... | 0800 | 3760                                          | 6.2           | 11.0                        | 9.8                                |
| MAY   |      |                                               |               |                             |                                    |
| 03... | 1000 | 3720                                          | 6.3           | 19.0                        | 7.2                                |
| JUNE  |      |                                               |               |                             |                                    |
| 07... | 0700 | 12600                                         | 6.3           | 19.0                        | 7.6                                |
| JULY  |      |                                               |               |                             |                                    |
| 06... | 0700 | 3300                                          | 6.3           | 23.5                        | 7.6                                |
| AUG.  |      |                                               |               |                             |                                    |
| 02... | 0930 | 2310                                          | 6.2           | 28.0                        | 5.8                                |

| DATE  | ALKA-<br>LINITY<br>AS<br>CaCO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) |
|-------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|
| DEC.  |                                          |                                                      |                                                    |                                           |                                     |
| 01... | 29                                       | .50                                                  | --                                                 | .15                                       | 26                                  |
| JAN.  |                                          |                                                      |                                                    |                                           |                                     |
| 05... | 18                                       | .29                                                  | --                                                 | .10                                       | 17                                  |
| FEB.  |                                          |                                                      |                                                    |                                           |                                     |
| 02... | 13                                       | .20                                                  | .06                                                | .11                                       | 14                                  |
| MAR.  |                                          |                                                      |                                                    |                                           |                                     |
| 08... | 25                                       | .59                                                  | .02                                                | .12                                       | 24                                  |
| MAY   |                                          |                                                      |                                                    |                                           |                                     |
| 03... | 25                                       | .47                                                  | .17                                                | .11                                       | 26                                  |
| JUNE  |                                          |                                                      |                                                    |                                           |                                     |
| 07... | 18                                       | .26                                                  | <.02                                               | .07                                       | 17                                  |
| JULY  |                                          |                                                      |                                                    |                                           |                                     |
| 06... | 25                                       | .51                                                  | <.02                                               | .11                                       | 23                                  |
| AUG.  |                                          |                                                      |                                                    |                                           |                                     |
| 02... | 25                                       | .52                                                  | .05                                                | .12                                       | 24                                  |

## ALTAMAHA RIVER BASIN

02215260 OCMULGEE RIVER AT ABBEVILLE, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| DEC.<br>01... | 93                                                         | 30                                           | 13                           | .8                                                           | 230                                              | --                                          |
| JAN.<br>05... | 70                                                         | 80                                           | 31                           | .7                                                           | 230                                              | --                                          |
| FEB.<br>02... | 56                                                         | 160                                          | 76                           | 1.3                                                          | 230                                              | 8.0                                         |
| MAR.<br>08... | 89                                                         | 25                                           | 12                           | .4                                                           | 91                                               | 5.0                                         |
| MAY<br>03...  | 86                                                         | 30                                           | 19                           | .5                                                           | 430                                              | 3.0                                         |
| JUNE<br>07... | 59                                                         | 110                                          | 30                           | .7                                                           | 430                                              | 5.0                                         |
| JULY<br>06... | 81                                                         | 40                                           | 16                           | --                                                           | --                                               | 4.0                                         |
| AUG.<br>02... | 91                                                         | 15                                           | 14                           | --                                                           | --                                               | 3.0                                         |

## 02215500 OCMULGEE RIVER AT LUMBER CITY, GA.

LOCATION.--Lat 31°55'06", long 82°40'26", Telfair County, 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 mi<sup>2</sup> (13,400 km<sup>2</sup>), 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 sta. 02210000).

AVERAGE DISCHARGE.--40 years, 5,653 ft<sup>3</sup>/s (160 m<sup>3</sup>/s), 14.82 in/yr (376.4 mm/yr).

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known since at least 1841, 98,400 ft<sup>3</sup>/s (2,790 m<sup>3</sup>/s) Jan. 21, 1925, from rating extended above 67,000 ft<sup>3</sup>/s (1,900 m<sup>3</sup>/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, 28,900 ft<sup>3</sup>/s (818 m<sup>3</sup>/s) Mar. 28, gage height, 15.95 ft (4.862 m); minimum, 2,010 ft<sup>3</sup>/s (56.9 m<sup>3</sup>/s) Sept. 25.

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

| DAY   | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG   | SEP   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 1     | 4530   | 3810   | 3560   | 5280   | 6920   | 4940   | 15100  | 3180   | 9020   | 4760   | 2350  | 2700  |
| 2     | 4520   | 3440   | 3520   | 5500   | 7670   | 4980   | 11900  | 3460   | 7420   | 4690   | 2410  | 2740  |
| 3     | 4320   | 3260   | 3450   | 5480   | 8350   | 5000   | 9760   | 3940   | 6400   | 4350   | 2510  | 2710  |
| 4     | 4090   | 3210   | 3420   | 5460   | 8850   | 4960   | 8310   | 4290   | 6140   | 4030   | 2710  | 2630  |
| 5     | 3940   | 3100   | 3450   | 5470   | 9410   | 4870   | 7240   | 4440   | 6600   | 3990   | 2710  | 2600  |
| 6     | 3890   | 3000   | 3550   | 5530   | 10100  | 4710   | 6700   | 4460   | 7750   | 4130   | 2590  | 2410  |
| 7     | 3960   | 2990   | 3700   | 5650   | 11000  | 4570   | 6500   | 4480   | 9660   | 4650   | 2460  | 2450  |
| 8     | 4150   | 2920   | 3860   | 6160   | 11800  | 4530   | 6520   | 4370   | 11800  | 5170   | 2420  | 2580  |
| 9     | 4320   | 2930   | 3960   | 6870   | 12200  | 4550   | 6670   | 4160   | 13700  | 5420   | 2340  | 2500  |
| 10    | 4120   | 2890   | 4000   | 7330   | 11900  | 4530   | 6920   | 3950   | 14000  | 5150   | 2260  | 2410  |
| 11    | 4020   | 2910   | 3920   | 7550   | 11000  | 4390   | 7200   | 3760   | 12600  | 4960   | 2390  | 2370  |
| 12    | 4210   | 3060   | 3790   | 7610   | 9740   | 4090   | 7310   | 3700   | 11200  | 4990   | 2660  | 2360  |
| 13    | 4460   | 3220   | 3680   | 7690   | 8530   | 3830   | 7160   | 3700   | 9530   | 5110   | 2750  | 2400  |
| 14    | 4670   | 3380   | 3610   | 7810   | 7410   | 4060   | 6760   | 3630   | 7830   | 5330   | 2750  | 2530  |
| 15    | 4830   | 3530   | 3600   | 7820   | 6640   | 4590   | 6250   | 3990   | 6650   | 5670   | 2710  | 2500  |
| 16    | 5050   | 3700   | 3530   | 7670   | 6150   | 5240   | 5710   | 4460   | 5720   | 6110   | 2700  | 2300  |
| 17    | 5420   | 3890   | 3380   | 7440   | 5850   | 6040   | 5130   | 4910   | 4830   | 6500   | 2560  | 2160  |
| 18    | 5920   | 4090   | 3310   | 7160   | 5640   | 6570   | 4670   | 5480   | 4190   | 6480   | 2490  | 2120  |
| 19    | 6220   | 4270   | 3280   | 6790   | 5430   | 6880   | 4330   | 6250   | 3710   | 5650   | 2420  | 2190  |
| 20    | 6200   | 4450   | 3310   | 6360   | 5250   | 7110   | 4130   | 7280   | 3420   | 4250   | 2360  | 2280  |
| 21    | 5760   | 4620   | 3490   | 5950   | 5080   | 7210   | 4040   | 8860   | 3390   | 3620   | 2630  | 2290  |
| 22    | 5100   | 4740   | 3800   | 5660   | 5000   | 7470   | 4010   | 10900  | 3400   | 3300   | 2980  | 2200  |
| 23    | 4760   | 4680   | 4060   | 5510   | 5150   | 8230   | 3840   | 14200  | 3430   | 3030   | 3060  | 2100  |
| 24    | 4720   | 4290   | 4280   | 5460   | 5340   | 9640   | 3550   | 18800  | 3670   | 2850   | 2830  | 2040  |
| 25    | 4830   | 3820   | 4490   | 5410   | 5350   | 12400  | 3410   | 22400  | 4210   | 2790   | 2520  | 2040  |
| 26    | 5030   | 3620   | 4800   | 5270   | 5160   | 18400  | 3340   | 23300  | 4450   | 2900   | 2300  | 2090  |
| 27    | 5290   | 3550   | 5030   | 5420   | 4970   | 25500  | 3260   | 21400  | 4550   | 3030   | 2190  | 2090  |
| 28    | 5490   | 3440   | 5030   | 6030   | 4890   | 28600  | 3220   | 18600  | 4610   | 2980   | 2250  | 2080  |
| 29    | 5410   | 3460   | 4660   | 6370   | 4890   | 26900  | 3160   | 15900  | 4480   | 2760   | 2460  | 2200  |
| 30    | 4900   | 3530   | 4470   | 6520   | ---    | 22800  | 3070   | 13200  | 4180   | 2550   | 2560  | 2560  |
| 31    | 4290   | ---    | 4680   | 6620   | ---    | 18500  | ---    | 10900  | ---    | 2420   | 2640  | ---   |
| TOTAL | 148420 | 107800 | 120730 | 196850 | 215670 | 286090 | 179170 | 266350 | 202540 | 133620 | 78970 | 70630 |
| MEAN  | 4788   | 3593   | 3895   | 6350   | 7437   | 9229   | 5972   | 8592   | 6751   | 4310   | 2547  | 2354  |
| MAX   | 6220   | 4740   | 5090   | 7820   | 12200  | 28600  | 15100  | 23300  | 14000  | 6500   | 3060  | 2740  |
| MIN   | 3890   | 2890   | 3280   | 5270   | 4890   | 3830   | 3070   | 3180   | 3390   | 2420   | 2190  | 2040  |
| CFSM  | .92    | .69    | .75    | 1.23   | 1.44   | 1.78   | 1.15   | 1.66   | 1.30   | .83    | .49   | .45   |
| IN.   | 1.07   | .77    | .87    | 1.41   | 1.55   | 2.05   | 1.29   | 1.91   | 1.45   | .96    | .57   | .51   |

CAL YR 1975 TOTAL 3198990 MEAN 8764 MAX 47000 MIN 2890 CFSM 1.69 IN 22.97  
WTR YR 1976 TOTAL 2006840 MEAN 5483 MAX 28600 MIN 2040 CFSM 1.06 IN 14.41

## 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|--------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| DEC<br>01... | 0845 | 3570                                          | 6.4           | 12.0                        | 9.5                                |
| FEB<br>02... | 0845 | 7570                                          | 6.1           | 7.5                         | 9.6                                |
| MAY<br>03... | 0800 | 3880                                          | 6.3           | 20.0                        | 7.7                                |
| AUG<br>02... | 0745 | 2400                                          | 6.6           | 28.0                        | 6.6                                |

| DATE          | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) |
|---------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|
| DEC.<br>01... | 32                                       | .42                                                  | <.02                                               | .08                                       | 28                                  |
| FEB.<br>02... | 21                                       | .19                                                  | .02                                                | .05                                       | 22                                  |
| MAY<br>03...  | 30                                       | .54                                                  | <.02                                               | .08                                       | 30                                  |
| AUG.<br>02... | 42                                       | .52                                                  | <.02                                               | .08                                       | 40                                  |

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| DEC.<br>01... | 98                                                         | 20                                           | 10                           | .4                                                           | 36                                               | 10                                          |
| FEB.<br>02... | 71                                                         | 60                                           | 26                           | .9                                                           | 230                                              | 7.0                                         |
| MAY<br>03...  | 93                                                         | 20                                           | 15                           | .4                                                           | 91                                               | 3.0                                         |
| AUG.<br>02... | 118                                                        | 20                                           | 15                           | --                                                           | --                                               | 3.0                                         |



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, 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 mi<sup>2</sup> (7.02 km<sup>2</sup>).

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 ft<sup>3</sup>/s (30.3 m<sup>3</sup>/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 ft<sup>3</sup>/s (3.96 m<sup>3</sup>/s) and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|--------|------|-------------------------------------------------------|-------------------------|
| May 16 | 1830 | *166 4.70                                             | 4.66 1.420              |

Minimum discharge, no flow on many days.

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

| DAY         | OCT   | NOV     | DEC       | JAN    | FEB   | MAR       | APR      | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|---------|-----------|--------|-------|-----------|----------|--------|-------|-------|-------|-------|
| 1           | 3.2   | .69     | 1.5       | 3.6    | 9.0   | 2.1       | 6.8      | 5.5    | 2.5   | 2.2   | 0     | 0     |
| 2           | 3.1   | .72     | 1.2       | 2.5    | 7.4   | 2.0       | 2.5      | 1.3    | 2.4   | .84   | 9.4   | 0     |
| 3           | 1.3   | .71     | .86       | 3.2    | 3.9   | 1.8       | 1.9      | .63    | 2.3   | .50   | 3.5   | 0     |
| 4           | 5.2   | .70     | .79       | 3.3    | 3.4   | 1.8       | 1.6      | .40    | 2.4   | .37   | .65   | 0     |
| 5           | 3.3   | .76     | .75       | 2.2    | 3.3   | 1.7       | 1.3      | .26    | 2.4   | 2.3   | .23   | 0     |
| 6           | 1.7   | .78     | .74       | 2.1    | 3.1   | 1.8       | 1.6      | .14    | 1.9   | 9.2   | .06   | 0     |
| 7           | 5.1   | 1.3     | .80       | 2.1    | 3.0   | 2.3       | 1.9      | .50    | 1.6   | 3.0   | .06   | 0     |
| 8           | 18    | 2.3     | 1.6       | 17     | 2.9   | 1.8       | 1.2      | 1.2    | 1.4   | 1.1   | .29   | 0     |
| 9           | 4.9   | 3.8     | 1.5       | 4.0    | 2.8   | 2.4       | .89      | .81    | 1.2   | .59   | .10   | 0     |
| 10          | 2.9   | 1.8     | 1.2       | 3.2    | 2.7   | 1.9       | .78      | .63    | 1.0   | .37   | .01   | 0     |
| 11          | 2.3   | 2.3     | .89       | 2.9    | 2.7   | 1.7       | .70      | .55    | .87   | .25   | 0     | 0     |
| 12          | 2.1   | 2.8     | .82       | 2.9    | 2.7   | 1.5       | .60      | .93    | .77   | .10   | .40   | 0     |
| 13          | 1.8   | 5.1     | .80       | 2.7    | 2.6   | 2.1       | .57      | .53    | .57   | .03   | .23   | 0     |
| 14          | 1.6   | 1.6     | .80       | 2.6    | 2.4   | 8.8       | .54      | 2.3    | .38   | 0     | .04   | 25    |
| 15          | 1.5   | 1.2     | .80       | 2.3    | 2.4   | 8.1       | .64      | 23     | .54   | 0     | 0     | 2.6   |
| 16          | 1.4   | 1.1     | .82       | 2.3    | 2.5   | 16        | .50      | 41     | 1.0   | 0     | 0     | 1.1   |
| 17          | 5.2   | .99     | 2.3       | 2.4    | 2.5   | 5.6       | .44      | 15     | 1.3   | 0     | 0     | .70   |
| 18          | 3.7   | .95     | 2.6       | 2.1    | 2.7   | 3.8       | .37      | 18     | .96   | 0     | .03   | .45   |
| 19          | 1.8   | .94     | 1.1       | 2.0    | 3.5   | 3.4       | .27      | 3.8    | .76   | 0     | 0     | .36   |
| 20          | 1.5   | .97     | .92       | 2.0    | 2.4   | 3.1       | .20      | 2.6    | 2.3   | 0     | 0     | .32   |
| 21          | 1.3   | 1.0     | .90       | 2.1    | 2.3   | 4.2       | .22      | 2.3    | 4.8   | 0     | 0     | .50   |
| 22          | 1.2   | .90     | .85       | 2.1    | 9.3   | 3.8       | .21      | 5.9    | 1.2   | 0     | 0     | .45   |
| 23          | 1.1   | .97     | .85       | 2.1    | 3.7   | 3.3       | .07      | 27     | 2.8   | 0     | 0     | .24   |
| 24          | 1.0   | 1.0     | .87       | 1.9    | 2.8   | 2.8       | 0        | 30     | 2.7   | 0     | 0     | .24   |
| 25          | 1.1   | .90     | 1.0       | 1.9    | 2.6   | 2.7       | 0        | 24     | 1.0   | 3.5   | 0     | .36   |
| 26          | 1.2   | .85     | 6.3       | 4.9    | 2.4   | 2.6       | 0        | 11     | .91   | 6.1   | 0     | .32   |
| 27          | .96   | .90     | 1.8       | 21     | 2.3   | 3.3       | 0        | 6.2    | 4.2   | .46   | 0     | .32   |
| 28          | .94   | .90     | 1.3       | 5.4    | 2.1   | 3.1       | 0        | 6.0    | 2.8   | .16   | 0     | .60   |
| 29          | .95   | .80     | 1.2       | 3.7    | 2.0   | 2.6       | 0        | 4.4    | 1.1   | .03   | 0     | .40   |
| 30          | .86   | .84     | 1.8       | 3.3    | ---   | 2.4       | .56      | 3.5    | 1.5   | 0     | 0     | .55   |
| 31          | .73   | ---     | 14        | 3.0    | ---   | 4.2       | ---      | 2.8    | ---   | 0     | 0     | ---   |
| TOTAL       | 82.94 | 40.57   | 53.66     | 118.8  | 97.4  | 108.7     | 26.36    | 242.18 | 51.56 | 31.10 | 15.00 | 34.51 |
| MEAN        | 2.68  | 1.35    | 1.73      | 3.83   | 3.36  | 3.51      | .88      | 7.81   | 1.72  | 1.00  | .48   | 1.15  |
| MAX         | 18    | 5.1     | 14        | 21     | 9.3   | 16        | 6.8      | 41     | 4.8   | 9.2   | 9.4   | 25    |
| MIN         | .73   | .69     | .74       | 1.9    | 2.0   | 1.5       | 0        | .14    | .38   | 0     | 0     | 0     |
| CFSM        | .99   | .50     | .64       | 1.41   | 1.24  | 1.30      | .32      | 2.88   | .63   | .37   | .18   | .42   |
| IN.         | 1.14  | .56     | .74       | 1.63   | 1.34  | 1.49      | .36      | 3.32   | .71   | .43   | .21   | .47   |
| CAL YR 1975 | TOTAL | 1090.17 | MEAN 2.99 | MAX 88 | MIN 0 | CFSM 1.10 | IN 14.96 |        |       |       |       |       |
| WTR YR 1976 | TOTAL | 902.78  | MEAN 2.47 | MAX 41 | MIN 0 | CFSM .91  | IN 12.39 |        |       |       |       |       |

## ALTAMAHA RIVER BASIN

02217500 MIDDLE OCONEE RIVER NEAR ATHENS, GA.

LOCATION.--Lat 33°56'48", long 83°25'22", Clarke County, 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 mi<sup>2</sup> (1,030 km<sup>2</sup>).

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 except those for periods of no gage-height record, which are poor. Records of chemical analyses for the water years 1968-74 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--42 years, 525 ft<sup>3</sup>/s (14.9 m<sup>3</sup>/s), 17.91 in/yr (454.9 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 19,600 ft<sup>3</sup>/s (555 m<sup>3</sup>/s) Feb. 28, 1902, gage height, 25.5 ft (7.772 m), site and datum then in use; minimum daily, 26 ft<sup>3</sup>/s (0.74 m<sup>3</sup>/s) Sept. 7, 1957.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,800 ft<sup>3</sup>/s (108 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Mar. 14 | 1400 | 4210 119                                              | 10.45 3.185             | May 16 | 1830 | 5240 148                                              | 12.20 3.718             |
| Mar. 17 | 2000 | 9170 260                                              | 16.87 5.142             | May 30 | 1000 | *12900 365                                            | 20.62 6.285             |
| Apr. 2  | 0430 | 6220 176                                              | 13.44 4.096             |        |      |                                                       |                         |

Minimum discharge, 144 ft<sup>3</sup>/s (4.08 m<sup>3</sup>/s) Sept. 25, 26, gage height, 1.19 ft (0.363 m)

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

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG  | SEP  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 1     | 450   | 370   | 460   | 880   | 940   | 500   | 4070  | 539   | 1380  | 471   | 236  | 174  |
| 2     | 650   | 366   | 700   | 1220  | 960   | 485   | 4910  | 556   | 1160  | 398   | 225  | 169  |
| 3     | 525   | 364   | 558   | 1180  | 880   | 475   | 1680  | 480   | 1260  | 355   | 214  | 167  |
| 4     | 433   | 361   | 503   | 880   | 790   | 465   | 1210  | 444   | 1600  | 357   | 205  | 171  |
| 5     | 407   | 358   | 472   | 780   | 720   | 460   | 1070  | 430   | 1270  | 648   | 202  | 185  |
| 6     | 486   | 354   | 453   | 657   | 680   | 470   | 970   | 424   | 920   | 872   | 210  | 197  |
| 7     | 517   | 379   | 442   | 624   | 640   | 490   | 900   | 430   | 773   | 712   | 286  | 198  |
| 8     | 818   | 480   | 438   | 767   | 620   | 540   | 832   | 466   | 678   | 586   | 344  | 204  |
| 9     | 868   | 520   | 425   | 770   | 590   | 660   | 772   | 476   | 611   | 454   | 250  | 195  |
| 10    | 816   | 510   | 435   | 652   | 570   | 640   | 724   | 448   | 574   | 405   | 233  | 178  |
| 11    | 630   | 460   | 413   | 611   | 560   | 556   | 692   | 430   | 558   | 374   | 218  | 164  |
| 12    | 534   | 460   | 397   | 623   | 540   | 568   | 672   | 434   | 525   | 353   | 208  | 152  |
| 13    | 481   | 700   | 389   | 593   | 530   | 2360  | 644   | 399   | 482   | 339   | 200  | 155  |
| 14    | 448   | 890   | 383   | 599   | 520   | 3760  | 624   | 424   | 459   | 320   | 212  | 167  |
| 15    | 431   | 740   | 382   | 584   | 510   | 1720  | 608   | 3240  | 445   | 304   | 215  | 208  |
| 16    | 470   | 600   | 405   | 540   | 510   | 4840  | 592   | 4650  | 436   | 293   | 236  | 242  |
| 17    | 900   | 500   | 459   | 530   | 520   | 7700  | 576   | 2710  | 434   | 287   | 213  | 210  |
| 18    | 1850  | 460   | 499   | 501   | 540   | 5410  | 556   | 1020  | 436   | 283   | 208  | 185  |
| 19    | 1150  | 440   | 435   | 468   | 550   | 1660  | 539   | 800   | 414   | 275   | 191  | 168  |
| 20    | 800   | 420   | 403   | 470   | 530   | 1180  | 528   | 692   | 469   | 281   | 178  | 164  |
| 21    | 610   | 440   | 397   | 470   | 760   | 1110  | 518   | 600   | 502   | 317   | 179  | 168  |
| 22    | 530   | 450   | 389   | 470   | 870   | 1140  | 508   | 550   | 461   | 314   | 185  | 171  |
| 23    | 490   | 460   | 379   | 460   | 780   | 980   | 497   | 522   | 426   | 282   | 186  | 162  |
| 24    | 460   | 470   | 373   | 450   | 680   | 864   | 483   | 514   | 402   | 264   | 185  | 150  |
| 25    | 440   | 470   | 372   | 470   | 610   | 796   | 483   | 490   | 387   | 254   | 187  | 148  |
| 26    | 430   | 440   | 517   | 900   | 560   | 740   | 497   | 469   | 391   | 243   | 181  | 145  |
| 27    | 420   | 425   | 560   | 2300  | 540   | 712   | 466   | 469   | 447   | 239   | 189  | 186  |
| 28    | 409   | 420   | 457   | 3300  | 520   | 720   | 458   | 1160  | 413   | 270   | 242  | 209  |
| 29    | 404   | 412   | 426   | 3250  | 510   | 660   | 448   | 5270  | 377   | 306   | 271  | 195  |
| 30    | 394   | 403   | 432   | 1800  | ---   | 884   | 448   | 11600 | 396   | 253   | 215  | 287  |
| 31    | 381   | ---   | 700   | 1200  | ---   | 2070  | ---   | 4600  | ---   | 240   | 189  | ---  |
| TOTAL | 18632 | 14122 | 14053 | 28999 | 18530 | 45615 | 27975 | 45736 | 19086 | 11349 | 6693 | 5474 |
| MEAN  | 601   | 471   | 453   | 935   | 639   | 1471  | 933   | 1475  | 636   | 366   | 216  | 182  |
| MAX   | 1850  | 890   | 700   | 3300  | 960   | 7700  | 4910  | 11600 | 1600  | 872   | 344  | 287  |
| MIN   | 381   | 354   | 372   | 450   | 510   | 460   | 448   | 399   | 377   | 239   | 178  | 145  |
| CFSM  | 1.51  | 1.18  | 1.14  | 2.35  | 1.61  | 3.70  | 2.34  | 3.71  | 1.60  | .92   | .54  | .46  |
| IN.   | 1.74  | 1.32  | 1.31  | 2.71  | 1.73  | 4.26  | 2.61  | 4.27  | 1.78  | 1.06  | .63  | .51  |

CAL YR 1975 TOTAL 249258 MEAN 683 MAX 8220 MIN 230 CFSM 1.72 IN 23.30  
WTR YR 1976 TOTAL 256264 MEAN 700 MAX 11600 MIN 145 CFSM 1.76 IN 23.95

NOTE.--No gage-height record Oct. 16-27, Nov. 8-28, Jan. 1-5, and Jan. 20 to Mar. 11.

ALTAMAHA RIVER BASIN

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02217740 NORTH OCONEE RIVER ABOVE ATHENS, GA.

LOCATION.--Lat 33°58'28", long 83°22'56", Clarke County, at city of Athens water works intake, and 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| NOV.<br>04... | 1420 | 250                                           | 7.1           | 14.0                        | 7.8                                |
| DEC.<br>09... | 1640 | 293                                           | 7.0           | 9.0                         | 10.9                               |
| JAN.<br>20... | 0930 | 304                                           | 6.9           | 1.0                         | 13.2                               |
| FEB.<br>10... | 0810 | 246                                           | 6.9           | 6.0                         | 11.3                               |
| APR.<br>07... | 1515 | 358                                           | 7.1           | 14.0                        | 9.7                                |
| MAY<br>04...  | 1415 | 160                                           | 7.2           | 15.5                        | 8.6                                |
| JULY<br>14... | 1545 | 216                                           | 7.0           | 24.5                        | 6.7                                |
| AUG.<br>18... | 1050 | 204                                           | 7.1           | 21.0                        | 6.5                                |
| SEP.<br>15... | 1515 | 278                                           | 7.3           | 17.0                        | 7.1                                |

| DATE          | TOTAL<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>MANGANESE<br>(MN)<br>(UG/L) | ALKA-<br>LINIT<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) |
|---------------|---------------------------------|--------------------------------------|-----------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| NOV.<br>04... | 800                             | 120                                  | 22                                      | .26                                                  | <.02                                               | .02                                       | 17                                 |
| DEC.<br>09... | 1200                            | 150                                  | 19                                      | .31                                                  | .04                                                | .02                                       | 16                                 |
| JAN.<br>20... | 900                             | 140                                  | 18                                      | .40                                                  | .02                                                | .02                                       | 16                                 |
| FEB.<br>10... | --                              | --                                   | 17                                      | .37                                                  | <.02                                               | .02                                       | 14                                 |
| APR.<br>07... | 1600                            | 140                                  | 18                                      | .32                                                  | .03                                                | .05                                       | 14                                 |
| MAY<br>04...  | 1400                            | 150                                  | 19                                      | .40                                                  | .02                                                | .03                                       | 17                                 |
| JULY<br>14... | 1800                            | 200                                  | 22                                      | .46                                                  | .02                                                | .04                                       | 17                                 |
| AUG.<br>18... | 1800                            | 220                                  | 22                                      | .33                                                  | <.02                                               | .04                                       | 18                                 |
| SEP.<br>15... | 1700                            | 200                                  | 22                                      | .29                                                  | <.02                                               | .05                                       | 18                                 |

## ALTAMAHA RIVER BASIN

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | CON-<br>FIRMED<br>COLI-<br>FORM<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|------------------------------------------|---------------------------------------------|
| NOV.<br>04... | 52                                                         | 25                                           | 13                           | .6                                                           | 150                                              | 4300                                     | 2.0                                         |
| DEC.<br>09... | 53                                                         | 25                                           | 14                           | .7                                                           | 430                                              | 930                                      | 3.0                                         |
| JAN.<br>20... | 51                                                         | 20                                           | 14                           | .2                                                           | 91                                               | 930                                      | 2.0                                         |
| FEB.<br>10... | 49                                                         | 30                                           | 17                           | .5                                                           | 91                                               | 930                                      | 3.0                                         |
| APR.<br>07... | 47                                                         | 50                                           | 34                           | .3                                                           | 91                                               | 9300                                     | 3.0                                         |
| MAY<br>04...  | 51                                                         | 40                                           | 25                           | .6                                                           | 230                                              | 4300                                     | 2.0                                         |
| JULY<br>14... | 55                                                         | 30                                           | 25                           | .4                                                           | 430                                              | 2100                                     | 3.0                                         |
| AUG.<br>18... | 58                                                         | 45                                           | 20                           | .6                                                           | 930                                              | 23000                                    | 3.0                                         |
| SEP.<br>15... | 56                                                         | 25                                           | 22                           | --                                                           | --                                               | --                                       | 3.0                                         |

02218000 OCONEE RIVER NEAR WATKINSVILLE, GA.

LOCATION.--Lat 33°51'21", long 83°19'35", Oconee County, 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 mi<sup>2</sup> (2,030 km<sup>2</sup>).

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, 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 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|------------------------------------------|---------------|-----------------------------|------------------------------------|
| NOV.<br>04... | 1315 | 680                                      | 7.0           | 14.5                        | 8.8                                |
| DEC.<br>09... | 1545 | 664                                      | 7.2           | 9.5                         | 10.9                               |
| JAN.<br>20... | 0815 | 616                                      | 7.0           | 1.0                         | 13.2                               |
| FEB.<br>10... | 0910 | 1030                                     | 7.1           | 6.0                         | 11.7                               |
| MAR.<br>11... | 1050 | 1270                                     | 7.1           | 9.0                         | 10.8                               |
| APR.<br>07... | 1410 | 1510                                     | 7.0           | 14.0                        | 9.5                                |
| MAY<br>04...  | 1335 | 1500                                     | 7.2           | 16.5                        | 8.0                                |
| JUNE<br>09... | 1240 | 1060                                     | 7.3           | 19.0                        | 7.6                                |
| JULY<br>14... | 1500 | 1410                                     | 7.1           | 25.5                        | 6.9                                |
| AUG.<br>18... | 1000 | 511                                      | 7.0           | 21.5                        | 6.4                                |
| SEP.<br>15... | 1400 | 392                                      | 7.0           | 19.0                        | 6.6                                |

| DATE          | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) |
|---------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| NOV.<br>04... | 21                                       | .51                                                  | .10                                                | .12                                       | 17                                 |
| DEC.<br>09... | 18                                       | .50                                                  | .09                                                | .07                                       | 14                                 |
| JAN.<br>20... | 18                                       | .60                                                  | .20                                                | .13                                       | 15                                 |
| FEB.<br>10... | 16                                       | .59                                                  | .08                                                | .12                                       | 14                                 |
| MAR.<br>11... | 18                                       | .52                                                  | .11                                                | .14                                       | 14                                 |
| APR.<br>07... | 16                                       | .49                                                  | .08                                                | .09                                       | 12                                 |
| MAY<br>04...  | 18                                       | .66                                                  | .09                                                | .10                                       | 15                                 |
| JUNE<br>09... | 17                                       | .53                                                  | .05                                                | .09                                       | 14                                 |
| JULY<br>14... | 19                                       | .66                                                  | .04                                                | .11                                       | 16                                 |
| AUG.<br>18... | 20                                       | .69                                                  | .14                                                | .16                                       | 17                                 |
| SEP.<br>15... | 21                                       | .78                                                  | .17                                                | .20                                       | 18                                 |

## ALTAMAHA RIVER BASIN

02218000 OCONEE RIVER NEAR WATKINSVILLE, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| NOV.<br>04... | 58                                                         | 20                                           | 11                           | .5                                                           | 930                                              | 3.0                                         |
| DEC.<br>09... | 57                                                         | 15                                           | 14                           | 1.1                                                          | 430                                              | 3.0                                         |
| JAN.<br>20... | 60                                                         | 25                                           | 16                           | 2.7                                                          | 23000                                            | 4.0                                         |
| FEB.<br>10... | 56                                                         | 30                                           | 21                           | .8                                                           | 2300                                             | 3.0                                         |
| MAR.<br>11... | 59                                                         | 30                                           | 32                           | 1.5                                                          | 7500                                             | 4.0                                         |
| APR.<br>07... | 50                                                         | 50                                           | 38                           | .6                                                           | 230                                              | 4.0                                         |
| MAY<br>04...  | 56                                                         | 30                                           | 21                           | 1.4                                                          | 75000                                            | 2.0                                         |
| JUNE<br>09... | 52                                                         | 50                                           | 31                           | .8                                                           | 430                                              | 3.0                                         |
| JULY<br>14... | 61                                                         | 30                                           | 22                           | .6                                                           | 430                                              | 5.0                                         |
| AUG.<br>18... | 73                                                         | 35                                           | 20                           | 1.3                                                          | 9300                                             | 3.0                                         |
| SEP.<br>15... | 74                                                         | 8                                            | 15                           | --                                                           | --                                               | 3.0                                         |



## 02218500 OCONEE RIVER NEAR GREENSBORO, GA.

LOCATION.--Lat 33°34'52", long 83°16'22", Greene County, 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 mi<sup>2</sup> (2,820 km<sup>2</sup>), 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.--69 years, 1,447 ft<sup>3</sup>/s (41.0 m<sup>3</sup>/s), 18.03 in/yr (458.0 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 66,800 ft<sup>3</sup>/s (1,890 m<sup>3</sup>/s) Aug. 26, 1908, gage height, 36.4 ft (10.79 m), from rating curve extended above 23,000 ft<sup>3</sup>/s (651 m<sup>3</sup>/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 ft<sup>3</sup>/s (1.67 m<sup>3</sup>/s) Oct. 8, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft<sup>3</sup>/s (142 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Oct. 18 | 1100 | 5040 143                                              | 11.90 3.627             | Apr. 3 | 2100 | 8840 250                                              | 16.28 4.962             |
| Jan. 29 | 2400 | 8840 250                                              | 16.28 4.962             | May 18 | 0400 | 8700 246                                              | 16.17 4.929             |
| Mar. 17 | 1900 | *21400 606                                            | 23.46 7.151             | June 1 | 0500 | 17400 493                                             | 21.46 6.541             |

Minimum daily discharge, 381 ft<sup>3</sup>/s (10.8 m<sup>3</sup>/s) Sept. 13.

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

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR    | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 1     | 1080  | 951   | 1120  | 2350  | 2180  | 1200   | 3990  | 1160  | 16400 | 1060  | 639   | 518   |
| 2     | 1450  | 936   | 1480  | 3250  | 2380  | 1170   | 5250  | 1280  | 10500 | 1070  | 626   | 495   |
| 3     | 1420  | 935   | 1480  | 3020  | 2260  | 1150   | 7810  | 1200  | 3870  | 931   | 594   | 436   |
| 4     | 1170  | 930   | 1280  | 2260  | 2020  | 1130   | 7350  | 1040  | 2710  | 1010  | 559   | 469   |
| 5     | 1010  | 920   | 1180  | 1940  | 1770  | 1100   | 3060  | 950   | 3060  | 1310  | 543   | 445   |
| 6     | 961   | 919   | 1120  | 1700  | 1640  | 1080   | 2160  | 928   | 2310  | 2250  | 525   | 515   |
| 7     | 1120  | 941   | 1100  | 1570  | 1570  | 1100   | 1940  | 939   | 1780  | 2710  | 777   | 509   |
| 8     | 2430  | 1270  | 1110  | 1800  | 1490  | 1160   | 1800  | 1010  | 1550  | 1890  | 826   | 505   |
| 9     | 2950  | 1350  | 1090  | 1900  | 1430  | 1290   | 1690  | 1110  | 1420  | 1410  | 770   | 495   |
| 10    | 2730  | 1330  | 1070  | 1760  | 1380  | 1570   | 1590  | 1060  | 1340  | 1160  | 656   | 487   |
| 11    | 2150  | 1180  | 1060  | 1590  | 1350  | 1520   | 1520  | 988   | 1310  | 1040  | 607   | 433   |
| 12    | 1560  | 1170  | 1010  | 1500  | 1330  | 1360   | 1480  | 969   | 1270  | 956   | 580   | 420   |
| 13    | 1290  | 1750  | 982   | 1470  | 1300  | 3860   | 1430  | 914   | 1180  | 899   | 558   | 381   |
| 14    | 1170  | 2340  | 967   | 1450  | 1270  | 5430   | 1400  | 883   | 1100  | 844   | 534   | 407   |
| 15    | 1100  | 1970  | 967   | 1430  | 1250  | 5730   | 1370  | 2250  | 1060  | 805   | 590   | 636   |
| 16    | 1050  | 1510  | 1010  | 1360  | 1230  | 8580   | 1330  | 5990  | 1110  | 777   | 659   | 641   |
| 17    | 2290  | 1290  | 1150  | 1320  | 1220  | 19300  | 1320  | 8190  | 1070  | 755   | 948   | 616   |
| 18    | 4880  | 1200  | 1430  | 1280  | 1220  | 17200  | 1270  | 8340  | 1150  | 738   | 702   | 547   |
| 19    | 3150  | 1140  | 1290  | 1200  | 1320  | 13600  | 1230  | 4850  | 1050  | 718   | 586   | 489   |
| 20    | 2110  | 1080  | 1130  | 1140  | 1310  | 8830   | 1200  | 1800  | 1240  | 709   | 539   | 465   |
| 21    | 1600  | 1120  | 1060  | 1150  | 1220  | 3750   | 1170  | 1480  | 1550  | 745   | 501   | 453   |
| 22    | 1380  | 1180  | 1040  | 1160  | 1860  | 2790   | 1140  | 1320  | 1250  | 793   | 491   | 470   |
| 23    | 1260  | 1180  | 1010  | 1140  | 2120  | 2520   | 1120  | 1250  | 1120  | 782   | 522   | 448   |
| 24    | 1200  | 1230  | 989   | 1120  | 1790  | 2180   | 1080  | 1230  | 1060  | 780   | 503   | 433   |
| 25    | 1140  | 1240  | 977   | 1110  | 1530  | 1940   | 1070  | 1200  | 980   | 720   | 502   | 410   |
| 26    | 1100  | 1150  | 1200  | 1210  | 1390  | 1810   | 1100  | 1180  | 938   | 670   | 493   | 399   |
| 27    | 1070  | 1100  | 1420  | 3810  | 1320  | 1740   | 1080  | 1110  | 990   | 645   | 506   | 414   |
| 28    | 1060  | 1090  | 1340  | 5880  | 1270  | 1730   | 1010  | 1560  | 1080  | 714   | 495   | 439   |
| 29    | 1050  | 1080  | 1180  | 7970  | 1230  | 1680   | 981   | 7080  | 983   | 741   | 575   | 512   |
| 30    | 1020  | 1030  | 1150  | 7860  | ---   | 1660   | 986   | 12400 | 999   | 724   | 704   | 632   |
| 31    | 986   | ---   | 1390  | 3500  | ---   | 2420   | ---   | 14200 | ---   | 682   | 589   | ---   |
| TOTAL | 49937 | 36512 | 35782 | 71200 | 44650 | 121580 | 60927 | 89861 | 67430 | 31038 | 18699 | 14519 |
| MEAN  | 1611  | 1217  | 1154  | 2297  | 1540  | 3922   | 2031  | 2899  | 2248  | 1001  | 603   | 484   |
| MAX   | 4880  | 2340  | 1480  | 7970  | 2380  | 19300  | 7810  | 14200 | 16400 | 2710  | 948   | 641   |
| MIN   | 961   | 919   | 967   | 1110  | 1220  | 1080   | 981   | 883   | 938   | 645   | 491   | 381   |
| CFSM  | 1.48  | 1.12  | 1.06  | 2.11  | 1.41  | 3.60   | 1.86  | 2.66  | 2.06  | .92   | .55   | .44   |
| IN.   | 1.70  | 1.25  | 1.22  | 2.43  | 1.52  | 4.15   | 2.08  | 3.07  | 2.30  | 1.06  | .64   | .50   |

CAL YR 1975 TOTAL 718901 MEAN 1970 MAX 19100 MIN 612 CFSM 1.81 IN 24.53  
WTR YR 1976 TOTAL 642135 MEAN 1754 MAX 19300 MIN 381 CFSM 1.61 IN 21.92

## 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|--------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| DEC<br>09... | 1445 | 1100                                          | 7.1           | 9.5                         | 10.6                               |
| FEB<br>10... | 1025 | 1380                                          | 6.9           | 7.5                         | 11.2                               |
| MAY<br>04... | 1225 | 1020                                          | 7.2           | 16.5                        | 8.4                                |
| JUL<br>14... | 1330 | 839                                           | 7.1           | 25.5                        | 6.9                                |

| DATE          | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) |
|---------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| DEC.<br>09... | 18                                       | .46                                                  | .05                                                | .06                                       | 15                                 |
| FEB.<br>10... | 16                                       | .55                                                  | .05                                                | .07                                       | 14                                 |
| MAY<br>04...  | 17                                       | .62                                                  | <.02                                               | .08                                       | 15                                 |
| JULY<br>14... | 19                                       | .66                                                  | .03                                                | .09                                       | 16                                 |

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| DEC.<br>09... | 58                                                         | 25                                           | 14                           | .5                                                           | 4300                                             | 3.0                                         |
| FEB.<br>10... | 54                                                         | 30                                           | 20                           | .5                                                           | 36                                               | 3.0                                         |
| MAY<br>04...  | 55                                                         | 40                                           | 19                           | 1.0                                                          | 430                                              | 3.0                                         |
| JULY<br>14... | 58                                                         | 25                                           | 24                           | .4                                                           | 1500                                             | 3.0                                         |

## 02219500 APALACHEE RIVER NEAR BUCKHEAD, GA.

LOCATION.--Lat 33°36'31", long 83°20'58", Morgan County, 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 mi<sup>2</sup> (1,130 km<sup>2</sup>).

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.--46 years, 580 ft<sup>3</sup>/s (16.4 m<sup>3</sup>/s), 18.07 in/yr (459.0 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 28,900 ft<sup>3</sup>/s (818 m<sup>3</sup>/s) Aug. 25, 1908, gage height, 27.5 ft (8.382 m), datum then in use; minimum daily, 16 ft<sup>3</sup>/s (0.45 m<sup>3</sup>/s) Oct. 13, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft<sup>3</sup>/s (142 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Mar. 17 | 0600 | *18200 515                                            | 24.10 7.346             | May 16 | 0530 | 12400 351                                             | 20.91 6.373             |

Minimum discharge, 109 ft<sup>3</sup>/s (3.09 m<sup>3</sup>/s) Sept. 14, gage height, 1.45 ft (0.442 m).

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

| DAY         | OCT   | NOV    | DEC      | JAN       | FEB     | MAR       | APR      | MAY   | JUN   | JUL   | AUG  | SEP  |
|-------------|-------|--------|----------|-----------|---------|-----------|----------|-------|-------|-------|------|------|
| 1           | 389   | 374    | 450      | 826       | 812     | 485       | 1640     | 456   | 1100  | 324   | 290  | 144  |
| 2           | 471   | 368    | 546      | 844       | 935     | 474       | 2190     | 490   | 878   | 292   | 220  | 135  |
| 3           | 452   | 365    | 518      | 759       | 854     | 463       | 1410     | 414   | 769   | 374   | 188  | 129  |
| 4           | 396   | 363    | 455      | 694       | 721     | 456       | 952      | 361   | 824   | 428   | 171  | 132  |
| 5           | 358   | 362    | 428      | 630       | 650     | 450       | 814      | 339   | 920   | 465   | 166  | 144  |
| 6           | 351   | 359    | 415      | 561       | 633     | 445       | 740      | 328   | 661   | 826   | 159  | 159  |
| 7           | 390   | 373    | 411      | 556       | 609     | 441       | 672      | 339   | 539   | 973   | 349  | 155  |
| 8           | 957   | 502    | 409      | 716       | 574     | 439       | 630      | 404   | 477   | 628   | 376  | 145  |
| 9           | 1390  | 561    | 410      | 688       | 549     | 523       | 595      | 436   | 442   | 465   | 293  | 140  |
| 10          | 973   | 496    | 405      | 593       | 529     | 707       | 563      | 409   | 415   | 431   | 229  | 138  |
| 11          | 643   | 469    | 391      | 549       | 516     | 614       | 539      | 369   | 398   | 373   | 201  | 127  |
| 12          | 526   | 483    | 388      | 556       | 504     | 550       | 521      | 383   | 389   | 334   | 185  | 118  |
| 13          | 471   | 662    | 387      | 556       | 495     | 1590      | 508      | 353   | 360   | 296   | 178  | 111  |
| 14          | 435   | 697    | 386      | 561       | 487     | 3560      | 494      | 336   | 343   | 269   | 173  | 128  |
| 15          | 413   | 675    | 386      | 582       | 479     | 2810      | 493      | 2780  | 330   | 250   | 171  | 199  |
| 16          | 396   | 650    | 420      | 549       | 474     | 5220      | 478      | 10300 | 333   | 237   | 277  | 214  |
| 17          | 1060  | 619    | 509      | 516       | 468     | 15600     | 459      | 4280  | 336   | 223   | 376  | 197  |
| 18          | 2070  | 602    | 668      | 501       | 467     | 6700      | 448      | 1490  | 327   | 219   | 264  | 167  |
| 19          | 1420  | 506    | 627      | 460       | 515     | 2900      | 436      | 793   | 312   | 213   | 214  | 145  |
| 20          | 774   | 490    | 511      | 448       | 539     | 1520      | 419      | 637   | 441   | 205   | 177  | 140  |
| 21          | 618   | 466    | 473      | 451       | 478     | 1170      | 407      | 549   | 573   | 220   | 168  | 144  |
| 22          | 554   | 483    | 452      | 461       | 760     | 1100      | 395      | 492   | 451   | 233   | 170  | 156  |
| 23          | 511   | 471    | 433      | 454       | 1120    | 945       | 383      | 470   | 382   | 210   | 167  | 148  |
| 24          | 479   | 514    | 419      | 449       | 773     | 824       | 371      | 473   | 406   | 202   | 160  | 134  |
| 25          | 460   | 510    | 416      | 443       | 629     | 760       | 373      | 467   | 371   | 191   | 155  | 128  |
| 26          | 449   | 459    | 552      | 481       | 578     | 723       | 393      | 455   | 324   | 185   | 153  | 131  |
| 27          | 441   | 441    | 625      | 1400      | 549     | 702       | 374      | 403   | 302   | 183   | 147  | 133  |
| 28          | 435   | 441    | 535      | 3650      | 524     | 708       | 352      | 633   | 289   | 349   | 167  | 143  |
| 29          | 421   | 430    | 476      | 2860      | 504     | 675       | 344      | 3410  | 292   | 302   | 179  | 155  |
| 30          | 404   | 418    | 489      | 1380      | ---     | 668       | 356      | 3480  | 311   | 256   | 165  | 202  |
| 31          | 389   | ---    | 569      | 915       | ---     | 816       | ---      | 2150  | ---   | 262   | 162  | ---  |
| TOTAL       | 19496 | 14609  | 14559    | 25089     | 17725   | 55038     | 18749    | 38679 | 14295 | 10418 | 6450 | 4441 |
| MEAN        | 629   | 487    | 470      | 809       | 611     | 1775      | 625      | 1248  | 477   | 336   | 208  | 148  |
| MAX         | 2070  | 697    | 668      | 3650      | 1120    | 15600     | 2190     | 10300 | 1100  | 973   | 376  | 214  |
| MIN         | 351   | 359    | 386      | 443       | 467     | 439       | 344      | 328   | 289   | 183   | 147  | 111  |
| CFSM        | 1.44  | 1.12   | 1.08     | 1.86      | 1.40    | 4.07      | 1.43     | 2.86  | 1.09  | .77   | .48  | .34  |
| IN.         | 1.66  | 1.25   | 1.24     | 2.14      | 1.51    | 4.70      | 1.60     | 3.30  | 1.22  | .89   | .55  | .38  |
| CAL YR 1975 | TOTAL | 314561 | MEAN 862 | MAX 10400 | MIN 199 | CFSM 1.98 | IN 26.84 |       |       |       |      |      |
| WTR YR 1976 | TOTAL | 239548 | MEAN 655 | MAX 15600 | MIN 111 | CFSM 1.50 | IN 20.44 |       |       |       |      |      |

02220550 WHITTEN CREEK NEAR SPARTA, GA.

LOCATION.--Lat 33°23'13", long 83°01'29", Hancock County, 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 mi<sup>2</sup> (39 km<sup>2</sup>), 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 fair.

AVERAGE DISCHARGE.--16 years, 17.4 ft<sup>3</sup>/s (0.493 m<sup>3</sup>/s), 15.75 in/yr (400.0 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,770 ft<sup>3</sup>/s (107 m<sup>3</sup>/s) Feb. 24, 1961, gage height, 16.0 ft (4.88 m), at former site; minimum daily, 0.76 ft<sup>3</sup>/s (0.022 m<sup>3</sup>/s) Oct. 5, 6, 12, 1970.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft<sup>3</sup>/s (17.0 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Mar. 16 | 1500 | 1230 34.8                                             | 11.90 3.627             | May 28 | 1800 | *1440 40.8                                            | 12.57 3.831             |

Minimum daily discharge, 1.2 ft<sup>3</sup>/s (0.034 m<sup>3</sup>/s) Sept. 26.

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

| DAY         | OCT   | NOV    | DEC       | JAN     | FEB     | MAR       | APR      | MAY   | JUN   | JUL   | AUG  | SEP  |
|-------------|-------|--------|-----------|---------|---------|-----------|----------|-------|-------|-------|------|------|
| 1           | 4.0   | 4.3    | 9.0       | 49      | 22      | 9.4       | 13       | 8.8   | 14    | 3.8   | 3.0  | 1.6  |
| 2           | 11    | 4.4    | 7.2       | 25      | 30      | 8.7       | 10       | 5.7   | 12    | 3.5   | 2.9  | 1.7  |
| 3           | 4.1   | 4.9    | 6.3       | 19      | 19      | 8.3       | 9.3      | 4.9   | 10    | 3.3   | 2.7  | 1.7  |
| 4           | 3.8   | 4.3    | 6.0       | 16      | 16      | 7.9       | 9.0      | 4.6   | 9.5   | 3.7   | 2.7  | 2.0  |
| 5           | 3.9   | 4.3    | 5.9       | 13      | 14      | 7.3       | 8.4      | 4.5   | 9.0   | 5.9   | 2.6  | 2.1  |
| 6           | 4.1   | 4.4    | 5.9       | 12      | 13      | 7.3       | 8.0      | 4.2   | 8.1   | 12    | 2.5  | 2.0  |
| 7           | 51    | 6.7    | 5.9       | 22      | 13      | 7.2       | 8.4      | 4.4   | 8.0   | 46    | 4.1  | 1.9  |
| 8           | 79    | 6.8    | 5.9       | 58      | 12      | 7.5       | 7.7      | 6.1   | 6.7   | 8.1   | 2.8  | 1.8  |
| 9           | 21    | 5.2    | 6.2       | 25      | 12      | 12        | 7.4      | 5.6   | 6.0   | 5.8   | 2.7  | 1.7  |
| 10          | 8.9   | 5.7    | 6.3       | 19      | 11      | 9.1       | 7.2      | 4.7   | 5.7   | 5.1   | 2.5  | 1.6  |
| 11          | 6.9   | 5.7    | 5.8       | 17      | 11      | 8.1       | 7.0      | 4.6   | 5.4   | 4.6   | 2.4  | 1.5  |
| 12          | 6.1   | 57     | 5.6       | 15      | 10      | 12        | 6.9      | 4.4   | 5.1   | 4.2   | 2.4  | 1.4  |
| 13          | 6.1   | 44     | 5.6       | 13      | 9.7     | 84        | 7.0      | 4.0   | 4.8   | 4.0   | 2.3  | 1.4  |
| 14          | 5.5   | 14     | 5.6       | 13      | 9.3     | 29        | 7.0      | 3.9   | 4.7   | 3.6   | 2.2  | 1.4  |
| 15          | 5.2   | 10     | 5.6       | 12      | 8.6     | 87        | 6.8      | 70    | 4.6   | 3.6   | 2.2  | 2.2  |
| 16          | 5.1   | 9.0    | 7.6       | 12      | 8.6     | 609       | 6.6      | 109   | 5.5   | 3.5   | 3.2  | 1.9  |
| 17          | 11    | 7.9    | 20        | 12      | 8.7     | 84        | 6.3      | 19    | 5.4   | 4.1   | 2.4  | 1.8  |
| 18          | 10    | 7.2    | 18        | 12      | 9.1     | 40        | 6.1      | 12    | 5.0   | 3.6   | 2.2  | 1.6  |
| 19          | 6.0   | 6.9    | 10        | 12      | 12      | 28        | 6.1      | 9.2   | 5.1   | 3.4   | 2.1  | 1.5  |
| 20          | 5.4   | 6.7    | 8.7       | 11      | 9.2     | 23        | 5.8      | 7.8   | 5.9   | 3.4   | 2.0  | 1.4  |
| 21          | 5.1   | 7.2    | 8.0       | 10      | 8.6     | 28        | 5.7      | 7.0   | 5.0   | 3.4   | 2.1  | 1.4  |
| 22          | 4.8   | 6.7    | 7.4       | 10      | 41      | 21        | 5.5      | 6.6   | 4.5   | 3.1   | 2.0  | 1.5  |
| 23          | 4.6   | 7.0    | 6.9       | 9.7     | 24      | 16        | 5.3      | 7.6   | 4.4   | 3.0   | 1.9  | 1.4  |
| 24          | 4.4   | 6.9    | 6.7       | 9.4     | 15      | 14        | 5.2      | 8.4   | 4.9   | 3.0   | 1.9  | 1.3  |
| 25          | 4.4   | 6.7    | 6.6       | 9.2     | 14      | 13        | 6.1      | 7.3   | 4.3   | 2.9   | 1.8  | 1.3  |
| 26          | 4.4   | 6.5    | 18        | 18      | 13      | 13        | 5.7      | 6.2   | 4.0   | 3.1   | 1.8  | 1.2  |
| 27          | 4.4   | 6.5    | 11        | 139     | 12      | 13        | 5.2      | 32    | 3.9   | 9.9   | 1.8  | 1.4  |
| 28          | 4.4   | 6.3    | 8.7       | 52      | 11      | 12        | 5.0      | 454   | 3.8   | 12    | 1.8  | 1.6  |
| 29          | 4.4   | 6.1    | 8.2       | 28      | 10      | 11        | 5.0      | 82    | 3.7   | 4.2   | 2.5  | 1.8  |
| 30          | 4.4   | 6.1    | 126       | 22      | ---     | 11        | 6.3      | 30    | 4.9   | 3.4   | 1.9  | 2.0  |
| 31          | 4.2   | ---    | 139       | 17      | ---     | 13        | ---      | 18    | ---   | 3.2   | 1.7  | ---  |
| TOTAL       | 307.6 | 285.4  | 503.6     | 711.3   | 406.8   | 1253.8    | 209.0    | 956.5 | 183.9 | 186.4 | 73.1 | 49.1 |
| MEAN        | 9.92  | 9.51   | 16.2      | 22.9    | 14.0    | 40.4      | 6.97     | 30.9  | 6.13  | 6.01  | 2.36 | 1.64 |
| MAX         | 79    | 57     | 139       | 139     | 41      | 609       | 13       | 454   | 14    | 46    | 4.1  | 2.2  |
| MIN         | 3.8   | 4.3    | 5.6       | 9.2     | 8.6     | 7.2       | 5.0      | 3.9   | 3.7   | 2.9   | 1.7  | 1.2  |
| CFSM        | .66   | .63    | 1.08      | 1.53    | .93     | 2.69      | .46      | 2.06  | .41   | .40   | .16  | .11  |
| IN.         | .76   | .71    | 1.25      | 1.76    | 1.01    | 3.11      | .52      | 2.37  | .46   | .46   | .18  | .12  |
| CAL YR 1975 | TOTAL | 9106.4 | MEAN 24.9 | MAX 764 | MIN 3.0 | CFSM 1.66 | IN 22.58 |       |       |       |      |      |
| WTR YR 1976 | TOTAL | 5126.5 | MEAN 14.0 | MAX 609 | MIN 1.2 | CFSM .93  | IN 12.71 |       |       |       |      |      |

## 02223000 OCONEE RIVER AT MILLEDGEVILLE, GA.

LOCATION.--Lat 33°04'58", long 83°12'51", Baldwin County, 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 mi<sup>2</sup> (7,640 km<sup>2</sup>), 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 sta. 02222500.).  
AVERAGE DISCHARGE.--73 years, 3,379 ft<sup>3</sup>/s (95.7 m<sup>3</sup>/s), 15.55 in/yr (395.0 mm/yr), adjusted for storage.  
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 122,000 ft<sup>3</sup>/s (3,460 m<sup>3</sup>/s) Feb. 25, 1961, gage height, 42.9 ft (13.08 m), from rating curve extended above 77,000 ft<sup>3</sup>/s (2,180 m<sup>3</sup>/s); minimum daily, 90 ft<sup>3</sup>/s (2.55 m<sup>3</sup>/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, 46,600 ft<sup>3</sup>/s (1,320 m<sup>3</sup>/s) Mar. 17, gage height, 30.94 ft (9.431 m); minimum daily, 336 ft<sup>3</sup>/s (9.52 m<sup>3</sup>/s) Apr. 25.

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

| DAY               | OCT     | NOV   | DEC   | JAN    | FEB    | MAR     | APR         | MAY        | JUN       | JUL   | AUG   | SEP   |
|-------------------|---------|-------|-------|--------|--------|---------|-------------|------------|-----------|-------|-------|-------|
| 1                 | 4000    | 640   | 3570  | 4110   | 7740   | 3910    | 7580        | 1900       | 16300     | 2200  | 2010  | 1280  |
| 2                 | 4100    | 465   | 2910  | 4490   | 6710   | 3830    | 7550        | 2180       | 16100     | 2730  | 1180  | 652   |
| 3                 | 4000    | 2650  | 3360  | 6450   | 6530   | 2450    | 6800        | 3750       | 15900     | 1680  | 673   | 2190  |
| 4                 | 640     | 3250  | 1360  | 4870   | 6300   | 2310    | 6770        | 2360       | 8160      | 2650  | 675   | 483   |
| 5                 | 1400    | 3360  | 3930  | 4960   | 4240   | 4100    | 7500        | 3550       | 7560      | 5230  | 997   | 420   |
| 6                 | 4500    | 3580  | 4050  | 4220   | 4130   | 1510    | 6350        | 3510       | 4600      | 4140  | 2050  | 533   |
| 7                 | 4400    | 2760  | 3890  | 4220   | 4280   | 916     | 4370        | 2920       | 4810      | 9950  | 536   | 437   |
| 8                 | 5700    | 1520  | 3930  | 4810   | 6410   | 3480    | 3640        | 1210       | 5040      | 7880  | 509   | 766   |
| 9                 | 7300    | 554   | 4230  | 5350   | 4230   | 4000    | 4380        | 551        | 4180      | 5750  | 493   | 696   |
| 10                | 7200    | 3470  | 4850  | 3670   | 2980   | 3930    | 1370        | 819        | 4170      | 2740  | 704   | 414   |
| 11                | 6390    | 3210  | 4710  | 2270   | 4010   | 3100    | 1600        | 1370       | 516       | 2880  | 722   | 398   |
| 12                | 3560    | 4840  | 3460  | 4090   | 4140   | 3870    | 3940        | 2370       | 3590      | 2200  | 1620  | 406   |
| 13                | 4200    | 6830  | 1930  | 4170   | 4070   | 7050    | 4060        | 1300       | 762       | 968   | 2220  | 1210  |
| 14                | 3900    | 4460  | 742   | 4220   | 3950   | 7460    | 3170        | 3790       | 1640      | 2480  | 2250  | 830   |
| 15                | 4100    | 2490  | 4000  | 4220   | 797    | 12100   | 3200        | 15100      | 1650      | 3020  | 1120  | 747   |
| 16                | 3900    | 3160  | 4030  | 4420   | 3700   | 37700   | 744         | 21200      | 623       | 1670  | 1090  | 348   |
| 17                | 4100    | 2440  | 4090  | 4230   | 2400   | 41600   | 358         | 15600      | 523       | 1990  | 496   | 583   |
| 18                | 6700    | 3840  | 4520  | 3770   | 2250   | 32100   | 452         | 14400      | 503       | 531   | 537   | 455   |
| 19                | 7000    | 4190  | 4060  | 4470   | 4040   | 28300   | 3340        | 8450       | 514       | 2930  | 388   | 408   |
| 20                | 6400    | 4120  | 1690  | 3240   | 4040   | 20100   | 2080        | 7530       | 550       | 2540  | 362   | 1920  |
| 21                | 4300    | 4240  | 444   | 3740   | 1120   | 12600   | 2630        | 5070       | 2270      | 3350  | 363   | 463   |
| 22                | 3980    | 3710  | 3900  | 3230   | 2610   | 7270    | 2040        | 4110       | 2540      | 2880  | 375   | 789   |
| 23                | 3820    | 1830  | 3310  | 2630   | 2960   | 6830    | 2640        | 2820       | 538       | 633   | 3330  | 860   |
| 24                | 4040    | 4020  | 1350  | 452    | 3200   | 6530    | 1600        | 4190       | 536       | 515   | 2420  | 2080  |
| 25                | 4180    | 2380  | 817   | 432    | 4590   | 6500    | 336         | 3050       | 3830      | 520   | 2610  | 2840  |
| 26                | 703     | 1800  | 2710  | 4080   | 2610   | 5210    | 2780        | 3030       | 1950      | 2670  | 1330  | 469   |
| 27                | 4120    | 402   | 2700  | 7280   | 4000   | 5070    | 1910        | 3510       | 558       | 628   | 2060  | 1280  |
| 28                | 2370    | 3140  | 1560  | 7800   | 3540   | 4090    | 2650        | 7120       | 2750      | 512   | 2540  | 400   |
| 29                | 3440    | 2290  | 2500  | 7710   | 3650   | 4250    | 1730        | 10500      | 2970      | 493   | 432   | 858   |
| 30                | 3370    | 455   | 3120  | 7720   | ---    | 4420    | 1950        | 18800      | 1380      | 498   | 1650  | 727   |
| 31                | 3570    | ---   | 4400  | 7740   | ---    | 6740    | ---         | 16300      | ---       | 1800  | 375   | ---   |
| TOTAL             | 131383  | 86096 | 96123 | 139064 | 115227 | 293326  | 99520       | 192360     | 117013    | 80658 | 38117 | 25942 |
| MEAN              | 4238    | 2870  | 3101  | 4486   | 3973   | 9462    | 3317        | 6205       | 3900      | 2602  | 1230  | 865   |
| MAX               | 7300    | 6830  | 4850  | 7800   | 7740   | 41600   | 7580        | 21200      | 16300     | 9950  | 3330  | 2840  |
| MIN               | 640     | 402   | 444   | 432    | 797    | 916     | 336         | 551        | 503       | 493   | 362   | 348   |
| (+)               | -189    | -188  | -203  | +818   | -389   | -137    | +341        | +24        | +50       | -267  | -205  | +141  |
| CAL YR 1975 TOTAL | 1852164 |       |       | 5074   | 42700  | MIN 338 | MEAN± 5,051 | CFSM± 1.71 | IN± 23.21 |       |       |       |
| WTR YR 1976 TOTAL | 1414829 |       |       | 3866   | 41600  | MIN 336 | MEAN± 3,850 | CFSM± 1.31 | IN± 17.83 |       |       |       |

+ Change in contents, equivalent in cubic feet per second, in Sinclair Reservoir, furnished by Georgia Power Company.  
± Adjusted for change in contents.

## 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME                            | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS)                            | TEMPER-<br>ATURE<br>(DEG C)                          | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L)                 |                                           |                                                      |
|---------------|---------------------------------|-----------------------------------------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|
| NOV.<br>04... | 1100                            | 741                                           | 7.0                                      | 19.0                                                 | 4.0                                                |                                           |                                                      |
| DEC.<br>09... | 1130                            | 6070                                          | 6.8                                      | 11.5                                                 | 9.2                                                |                                           |                                                      |
| JAN.<br>20... | 1515                            | 1550                                          | 7.0                                      | 8.0                                                  | 10.9                                               |                                           |                                                      |
| FEB.<br>10... | 1205                            | 6250                                          | 7.2                                      | 9.5                                                  | 10.7                                               |                                           |                                                      |
| MAR.<br>11... | 1515                            | 5600                                          | 7.0                                      | 13.0                                                 | 9.4                                                |                                           |                                                      |
| MAY<br>04...  | 0920                            | 6020                                          | 6.9                                      | 18.0                                                 | 6.3                                                |                                           |                                                      |
| JUNE<br>09... | 0945                            | 6020                                          | 6.9                                      | 21.5                                                 | 5.4                                                |                                           |                                                      |
| JULY<br>14... | 1040                            | 534                                           | 6.9                                      | 25.0                                                 | 4.7                                                |                                           |                                                      |
| AUG.<br>17... | 1350                            | 300                                           | 6.9                                      | 25.0                                                 | 3.6                                                |                                           |                                                      |
| SEP.<br>15... | 1145                            | 302                                           | 7.0                                      | 22.0                                                 | 5.1                                                |                                           |                                                      |
| DATE          | TOTAL<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>MAN-<br>GANESE<br>(MN)<br>(UG/L)     | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) |
| NOV.<br>04... | 350                             | 70                                            | 20                                       | .19                                                  | .07                                                | .03                                       | 3                                                    |
| DEC.<br>09... | 580                             | 100                                           | 20                                       | .21                                                  | .05                                                | .02                                       | 8                                                    |
| JAN.<br>20... | 1000                            | 60                                            | 19                                       | --                                                   | --                                                 | .05                                       | 8                                                    |
| FEB.<br>10... | --                              | --                                            | 15                                       | .39                                                  | .11                                                | .09                                       | 13                                                   |
| MAR.<br>11... | 1100                            | 70                                            | 17                                       | .37                                                  | .03                                                | .08                                       | 10                                                   |
| MAY<br>04...  | 900                             | 100                                           | 15                                       | .32                                                  | .04                                                | .04                                       | --                                                   |
| JUNE<br>09... | 2900                            | 110                                           | 12                                       | .18                                                  | .06                                                | .09                                       | 32                                                   |
| JULY<br>14... | 750                             | 380                                           | 19                                       | .23                                                  | .06                                                | .03                                       | 2                                                    |
| AUG.<br>17... | 1100                            | 700                                           | 22                                       | .07                                                  | .14                                                | .02                                       | 1                                                    |
| SEP.<br>15... | 660                             | 380                                           | 24                                       | .06                                                  | .10                                                | .05                                       | 12                                                   |



## ALTAMAHA RIVER BASIN

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02223000 OCONEE RIVER AT MILLEDGEVILLE, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>IDY<br>(JTU) | RIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | CON-<br>FIRMED<br>COLI-<br>FORM<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|-------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|------------------------------------------|---------------------------------------------|
| NOV.<br>04... | 16                                  | 54                                                         | 40                                           | 16                           | 1.1                                                          | <30                                              | 91                                       | 4.0                                         |
| DEC.<br>09... | 17                                  | 63                                                         | 10                                           | 13                           | .6                                                           | <30                                              | 36                                       | 3.0                                         |
| JAN.<br>20... | 18                                  | 62                                                         | 55                                           | 28                           | .6                                                           | 36                                               | 230                                      | 3.0                                         |
| FEB.<br>10... | 15                                  | 56                                                         | 100                                          | 58                           | .8                                                           | 36                                               | 390                                      | 4.0                                         |
| MAR.<br>11... | 14                                  | 59                                                         | 40                                           | 28                           | .5                                                           | <30                                              | <30                                      | 4.0                                         |
| MAY<br>04...  | 14                                  | 50                                                         | 80                                           | 25                           | 1.5                                                          | 36                                               | 430                                      | 3.0                                         |
| JUNE<br>09... | 12                                  | 41                                                         | 200                                          | 88                           | 1.2                                                          | <30                                              | 430                                      | 5.0                                         |
| JULY<br>14... | 15                                  | 53                                                         | 30                                           | 18                           | .5                                                           | <30                                              | 2300                                     | 3.0                                         |
| AUG.<br>17... | 17                                  | 59                                                         | 30                                           | 10                           | .3                                                           | 230                                              | 2300                                     | 7.0                                         |
| SEP.<br>15... | 19                                  | 66                                                         | 8                                            | 10                           | --                                                           | --                                               | --                                       | 3.0                                         |

## ALTAMAHA RIVER BASIN

02223040 OCONEE RIVER NEAR HARDWICK, GA.

LOCATION.--Lat 33°01'45", long 83°11'24", Baldwin County, 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| NOV.<br>04... | 1015 | 456                                           | 6.6           | 17.5                        | 6.0                                |
| DEC.<br>09... | 1230 | 6100                                          | 6.7           | 19.0                        | 8.3                                |
| JAN.<br>20... | 1600 | 1550                                          | 6.9           | 7.5                         | 11.0                               |
| FEB.<br>10... | 1300 | 6250                                          | 6.8           | 10.0                        | 10.5                               |
| MAR.<br>11... | 1550 | 5600                                          | 6.8           | 13.0                        | 9.2                                |
| APR.<br>07... | 1035 | 5870                                          | 6.7           | 14.0                        | 8.2                                |
| MAY<br>04...  | 1000 | 6000                                          | 6.8           | 17.0                        | 6.1                                |
| JUNE<br>09... | 1025 | 6020                                          | 6.8           | 21.0                        | 6.2                                |
| JULY<br>14... | 1130 | 534                                           | 6.8           | 26.0                        | 4.5                                |
| AUG.<br>17... | 1440 | 204                                           | 6.9           | 26.0                        | 4.3                                |
| SEP.<br>15... | 1145 | 405                                           | 7.0           | 22.0                        | 5.2                                |

| DATE          | ALKA-<br>LINITY<br>AS<br>CAC03<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) |
|---------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| NOV.<br>04... | 22                                       | .20                                                  | .13                                                | .07                                       | 18                                 |
| DEC.<br>09... | 22                                       | .23                                                  | .10                                                | .04                                       | 17                                 |
| JAN.<br>20... | 19                                       | .37                                                  | .11                                                | .05                                       | 18                                 |
| FEB.<br>10... | 16                                       | .39                                                  | .12                                                | .10                                       | 14                                 |
| MAR.<br>11... | 18                                       | .35                                                  | .05                                                | .08                                       | 15                                 |
| APR.<br>07... | 15                                       | .31                                                  | .09                                                | .13                                       | 14                                 |
| MAY<br>04...  | 15                                       | .35                                                  | .10                                                | .08                                       | 15                                 |
| JUNE<br>09... | 13                                       | .21                                                  | .05                                                | .10                                       | 12                                 |
| JULY<br>14... | 21                                       | .24                                                  | .11                                                | .09                                       | 16                                 |
| AUG.<br>17... | 25                                       | .12                                                  | .29                                                | .15                                       | 18                                 |
| SEP.<br>15... | 25                                       | .09                                                  | .16                                                | .09                                       | 20                                 |

02223040 OCONEE RIVER NEAR HARDWICK, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| NOV.<br>04... | 63                                                         | 40                                           | 15                           | 1.6                                                          | 43000                                            | 3.0                                         |
| DEC.<br>09... | 64                                                         | 15                                           | 12                           | 1.1                                                          | 2300                                             | 3.0                                         |
| JAN.<br>20... | 63                                                         | 65                                           | 27                           | .6                                                           | 36                                               | 3.0                                         |
| FEB.<br>10... | 56                                                         | 90                                           | 56                           | 1.0                                                          | 200                                              | 4.0                                         |
| MAR.<br>11... | 60                                                         | 55                                           | 28                           | .8                                                           | 73                                               | 3.0                                         |
| APR.<br>07... | 50                                                         | 120                                          | 93                           | .7                                                           | 1500                                             | 5.0                                         |
| MAY<br>04...  | 56                                                         | 90                                           | 27                           | .9                                                           | 23000                                            | 3.0                                         |
| JUNE<br>09... | 42                                                         | 160                                          | 105                          | 1.2                                                          | 91                                               | 5.0                                         |
| JULY<br>14... | 62                                                         | 30                                           | 17                           | 1.5                                                          | 430000                                           | 3.0                                         |
| AUG.<br>17... | 76                                                         | 30                                           | 7                            | 1.6                                                          | 2300                                             | 5.0                                         |
| SEP.<br>15... | 75                                                         | 30                                           | 18                           | --                                                           | --                                               | 3.0                                         |

02223500 OCONEE RIVER AT DUBLIN, GA.

LOCATION.--Lat 32°32'40", long 82°53'41", Laurens County, 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 mi<sup>2</sup> (11,400 km<sup>2</sup>), 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 sta. 02222500). Records of chemical analyses for the water years 1968-73 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--79 years (1897-1976), 5,086 ft<sup>3</sup>/s (144 m<sup>3</sup>/s), 15.70 in/yr (398.8 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 97,700 ft<sup>3</sup>/s (2,770 m<sup>3</sup>/s) Apr. 12, 13, 1936, gage height, 32.97 ft (10.049 m); minimum, 333 ft<sup>3</sup>/s (9.43 m<sup>3</sup>/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, 37,000 ft<sup>3</sup>/s (1,050 m<sup>3</sup>/s) Mar. 21, gage height, 25.28 ft (7.705 m); minimum daily, 604 ft<sup>3</sup>/s (17.1 m<sup>3</sup>/s) Sept. 13.

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

| DAY               | OCT     | NOV    | DEC    | JAN    | FEB       | MAR      | APR        | MAY        | JUN       | JUL    | AUG   | SEP   |
|-------------------|---------|--------|--------|--------|-----------|----------|------------|------------|-----------|--------|-------|-------|
| 1                 | 4610    | 4260   | 2930   | 7410   | 11200     | 4900     | 7730       | 3060       | 11600     | 3050   | 920   | 1310  |
| 2                 | 5170    | 3490   | 2480   | 8100   | 11200     | 4860     | 8700       | 3390       | 13300     | 2180   | 1760  | 772   |
| 3                 | 5260    | 1670   | 4300   | 8190   | 11000     | 5370     | 9220       | 3220       | 15500     | 2970   | 1770  | 1090  |
| 4                 | 5130    | 1660   | 4370   | 8730   | 10500     | 4220     | 9420       | 4210       | 16900     | 2520   | 1290  | 1070  |
| 5                 | 3900    | 3340   | 3890   | 8590   | 10000     | 3620     | 9190       | 4370       | 17500     | 2150   | 950   | 1850  |
| 6                 | 1990    | 3860   | 3150   | 7690   | 8750      | 3950     | 8920       | 3680       | 17300     | 4960   | 895   | 1060  |
| 7                 | 3640    | 4290   | 4860   | 6910   | 7120      | 4070     | 8780       | 4290       | 16100     | 5390   | 1260  | 970   |
| 8                 | 5120    | 4300   | 4980   | 7410   | 6500      | 2110     | 7420       | 4020       | 13200     | 7100   | 1650  | 950   |
| 9                 | 6550    | 3540   | 4920   | 8740   | 7420      | 2960     | 6240       | 2940       | 8930      | 8730   | 924   | 799   |
| 10                | 7690    | 2540   | 5420   | 9150   | 6980      | 4650     | 5440       | 1830       | 5970      | 9650   | 808   | 885   |
| 11                | 8490    | 2550   | 5900   | 8710   | 5900      | 5260     | 4380       | 1330       | 5190      | 8840   | 790   | 846   |
| 12                | 8810    | 4340   | 6000   | 6950   | 5090      | 5110     | 2740       | 1680       | 3560      | 5220   | 960   | 702   |
| 13                | 7450    | 5390   | 5610   | 6240   | 5600      | 5020     | 3640       | 1980       | 2400      | 3660   | 1030  | 604   |
| 14                | 5770    | 7760   | 4060   | 6600   | 5880      | 7890     | 5220       | 2530       | 2860      | 2660   | 1580  | 611   |
| 15                | 5000    | 8040   | 2840   | 6530   | 5470      | 9370     | 5150       | 3410       | 1580      | 1810   | 2210  | 1180  |
| 16                | 4620    | 6790   | 2710   | 6320   | 4520      | 10200    | 4390       | 7980       | 2040      | 2900   | 1840  | 1260  |
| 17                | 4970    | 5410   | 4890   | 6310   | 3400      | 11000    | 3150       | 10300      | 1870      | 2700   | 1320  | 1150  |
| 18                | 5720    | 5110   | 5730   | 6290   | 4540      | 13200    | 1840       | 12000      | 1350      | 2060   | 1260  | 924   |
| 19                | 7380    | 4220   | 6320   | 5810   | 4110      | 24600    | 1370       | 15500      | 1260      | 1880   | 930   | 880   |
| 20                | 8140    | 5310   | 6580   | 6140   | 4640      | 34100    | 2080       | 18500      | 1240      | 1400   | 860   | 781   |
| 21                | 8400    | 5490   | 5350   | 5570   | 5530      | 36500    | 3000       | 18400      | 1180      | 2590   | 750   | 795   |
| 22                | 7080    | 5310   | 2970   | 5080   | 4530      | 34300    | 3160       | 16600      | 1290      | 3040   | 678   | 1510  |
| 23                | 5740    | 5280   | 2870   | 5040   | 2980      | 30100    | 2790       | 13600      | 2550      | 3180   | 634   | 915   |
| 24                | 5300    | 4100   | 4710   | 4650   | 4120      | 25300    | 2710       | 8730       | 2410      | 2630   | 1050  | 950   |
| 25                | 5160    | 3920   | 4050   | 3370   | 4420      | 20100    | 2820       | 7070       | 1170      | 1160   | 2460  | 1130  |
| 26                | 5140    | 4380   | 2810   | 2190   | 5230      | 15700    | 2140       | 6450       | 1780      | 915    | 2410  | 2230  |
| 27                | 4010    | 3580   | 3340   | 4130   | 4500      | 12000    | 1580       | 5660       | 2770      | 1330   | 2170  | 2240  |
| 28                | 2980    | 2270   | 4600   | 8550   | 4680      | 8780     | 2900       | 5770       | 2110      | 2040   | 1660  | 1610  |
| 29                | 3920    | 2140   | 4450   | 9980   | 4920      | 6970     | 3170       | 8030       | 1570      | 1120   | 2060  | 2160  |
| 30                | 3740    | 3350   | 3570   | 10600  | ---       | 6230     | 2980       | 9590       | 3270      | 940    | 1870  | 2780  |
| 31                | 4180    | ---    | 4980   | 11100  | ---       | 6330     | ---        | 10500      | ---       | 850    | 970   | ---   |
| TOTAL             | 171060  | 127690 | 135640 | 217080 | 180730    | 368770   | 142310     | 220620     | 179750    | 101625 | 41719 | 36014 |
| MEAN              | 5518    | 4256   | 4375   | 7003   | 6232      | 11900    | 4744       | 7117       | 5992      | 3278   | 1346  | 1200  |
| MAX               | 8810    | 8040   | 6580   | 11100  | 11200     | 36500    | 9420       | 18500      | 17500     | 9650   | 2460  | 2780  |
| MIN               | 1990    | 1660   | 2480   | 2190   | 2980      | 2110     | 1370       | 1330       | 1170      | 850    | 634   | 604   |
| CAL YR 1975 TOTAL | 2903410 |        |        | 7955   | MAX 42800 | MIN 1040 | MEAN† 7932 | CFSM† 1.80 | IN† 24.43 |        |       |       |
| WTR YR 1976 TOTAL | 1923008 |        |        | 5254   | MAX 36500 | MIN 604  | MEAN† 5238 | CFSM† 1.19 | IN† 16.20 |        |       |       |

† Adjusted for change in contents in Sinclair Reservoir.

## ALTAMAHA RIVER BASIN

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02223600 OCONEE RIVER AT I-16, NEAR DUBLIN, GA.

LOCATION.--Lat 32°29'05", long 82°51'45", Laurens County, 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 mi<sup>2</sup> (11,400 km<sup>2</sup>), 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| DEC.<br>01... | 1420 | 2760                                          | 6.3           | 12.0                        | 9.0                                |
| FEB.<br>02... | 1345 | 11100                                         | 6.2           | 7.0                         | 10.7                               |
| MAY<br>03...  | 1350 | 3060                                          | 6.2           | 19.0                        | 8.3                                |
| AUG.<br>02... | 1245 | 1580                                          | 6.3           | 28.0                        | 6.5                                |

| DATE          | ALKA-<br>LITY<br>AS<br>CACO <sub>3</sub><br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) |
|---------------|----------------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|
| DEC.<br>01... | 21                                                 | .29                                                  | .70                                                | .11                                       | 16                                  |
| FEB.<br>02... | 17                                                 | .30                                                  | .05                                                | .70                                       | 16                                  |
| MAY<br>03...  | 17                                                 | .36                                                  | .21                                                | .07                                       | 21                                  |
| AUG.<br>02... | 23                                                 | .33                                                  | .05                                                | .08                                       | 24                                  |

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| DEC.<br>01... | 71                                                         | 40                                           | --                           | 1.9                                                          | 4300                                             | --                                          |
| FEB.<br>02... | 61                                                         | 55                                           | 36                           | .7                                                           | 430                                              | 5.0                                         |
| MAY<br>03...  | 70                                                         | 80                                           | 38                           | 1.0                                                          | 1500                                             | 4.0                                         |
| AUG.<br>02... | 91                                                         | 40                                           | 21                           | --                                                           | --                                               | 4.0                                         |

## ALTAMAHA RIVER BASIN

02224000 ROCKY CREEK NEAR DUDLEY, GA.

LOCATION.--Lat 32°29'38", long 83°08'49", Laurens County, 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 mi<sup>2</sup> (163 km<sup>2</sup>).

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1951 to September 1976 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 262 ft (80 m), by barometer.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--25 years, 58.9 ft<sup>3</sup>/s (1.67 m<sup>3</sup>/s), 12.72 in/yr (323.1 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,270 ft<sup>3</sup>/s (263 m<sup>3</sup>/s) Mar. 3, 1966, gage height, 13.49 ft (4.112 m), from rating curve extended above 1,900 ft<sup>3</sup>/s (53.8 m<sup>3</sup>/s) on basis of contracted-opening measurement of peak flow; minimum daily, 0.11 ft<sup>3</sup>/s (0.003 m<sup>3</sup>/s) May 7, Aug. 22-25, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 550 ft<sup>3</sup>/s (15.6 m<sup>3</sup>/s) and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|--------|------|-------------------------------------------------------|-------------------------|
| May 16 | 0300 | *1310 37.1                                            | 7.54 2.298              |

Minimum discharge, 1.8 ft<sup>3</sup>/s (0.051 m<sup>3</sup>/s) Sept. 13.DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY         | OCT   | NOV     | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|---------|------|------|------|------|------|------|-------|-------|-------|-------|
| 1           | 12    | 19      | 39   | 168  | 98   | 42   | 89   | 88   | 43    | 16    | 4.3   | 15    |
| 2           | 16    | 19      | 45   | 97   | 132  | 41   | 59   | 48   | 37    | 16    | 3.5   | 6.4   |
| 3           | 13    | 19      | 34   | 84   | 98   | 40   | 44   | 27   | 36    | 15    | 3.2   | 4.3   |
| 4           | 11    | 19      | 29   | 81   | 86   | 41   | 38   | 19   | 34    | 23    | 3.2   | 3.7   |
| 5           | 13    | 20      | 32   | 68   | 82   | 41   | 34   | 15   | 32    | 54    | 3.3   | 4.1   |
| 6           | 13    | 19      | 30   | 61   | 82   | 40   | 33   | 12   | 28    | 63    | 3.2   | 4.1   |
| 7           | 33    | 34      | 27   | 118  | 77   | 40   | 53   | 12   | 24    | 70    | 4.3   | 4.1   |
| 8           | 182   | 35      | 29   | 437  | 69   | 38   | 40   | 14   | 20    | 37    | 12    | 3.7   |
| 9           | 67    | 30      | 47   | 218  | 65   | 51   | 33   | 17   | 17    | 25    | 7.8   | 4.4   |
| 10          | 36    | 28      | 49   | 128  | 62   | 53   | 30   | 15   | 16    | 18    | 5.5   | 3.9   |
| 11          | 26    | 27      | 35   | 113  | 60   | 41   | 30   | 14   | 15    | 13    | 4.3   | 3.1   |
| 12          | 22    | 47      | 30   | 110  | 60   | 38   | 26   | 12   | 13    | 11    | 4.5   | 2.5   |
| 13          | 19    | 105     | 28   | 97   | 57   | 55   | 23   | 11   | 13    | 8.7   | 6.2   | 2.1   |
| 14          | 17    | 56      | 27   | 92   | 58   | 77   | 23   | 19   | 11    | 7.6   | 4.8   | 3.7   |
| 15          | 16    | 38      | 28   | 83   | 56   | 97   | 22   | 485  | 9.8   | 6.5   | 5.4   | 9.0   |
| 16          | 15    | 33      | 28   | 79   | 57   | 102  | 20   | 803  | 11    | 6.4   | 5.5   | 9.4   |
| 17          | 119   | 30      | 52   | 77   | 56   | 98   | 18   | 164  | 15    | 7.1   | 5.5   | 6.5   |
| 18          | 205   | 29      | 76   | 68   | 56   | 65   | 15   | 96   | 20    | 5.9   | 5.3   | 4.5   |
| 19          | 70    | 29      | 46   | 63   | 117  | 54   | 15   | 71   | 23    | 5.3   | 4.3   | 3.8   |
| 20          | 47    | 27      | 37   | 63   | 84   | 49   | 14   | 56   | 46    | 4.6   | 3.4   | 3.2   |
| 21          | 38    | 28      | 35   | 65   | 64   | 70   | 14   | 47   | 30    | 4.6   | 3.1   | 3.3   |
| 22          | 34    | 28      | 33   | 62   | 70   | 86   | 12   | 43   | 60    | 4.4   | 2.9   | 9.0   |
| 23          | 30    | 28      | 31   | 59   | 60   | 60   | 11   | 91   | 75    | 4.2   | 2.8   | 7.5   |
| 24          | 28    | 28      | 30   | 58   | 51   | 51   | 10   | 209  | 29    | 4.1   | 2.6   | 5.1   |
| 25          | 27    | 27      | 33   | 57   | 48   | 46   | 11   | 172  | 20    | 4.3   | 2.4   | 4.3   |
| 26          | 28    | 27      | 120  | 90   | 48   | 48   | 13   | 95   | 15    | 4.0   | 2.5   | 5.8   |
| 27          | 27    | 26      | 79   | 274  | 46   | 44   | 13   | 78   | 13    | 3.5   | 2.8   | 7.5   |
| 28          | 26    | 27      | 54   | 209  | 44   | 48   | 11   | 106  | 13    | 3.4   | 2.6   | 13    |
| 29          | 25    | 26      | 46   | 128  | 43   | 43   | 10   | 109  | 13    | 3.4   | 3.7   | 40    |
| 30          | 23    | 24      | 64   | 108  | ---  | 41   | 26   | 69   | 13    | 4.0   | 3.5   | 47    |
| 31          | 21    | ---     | 184  | 97   | ---  | 57   | ---  | 54   | ---   | 5.9   | 15    | ---   |
| TOTAL       | 1259  | 932     | 1457 | 3512 | 1986 | 1697 | 790  | 3071 | 744.8 | 458.9 | 143.4 | 244.0 |
| MEAN        | 40.6  | 31.1    | 47.0 | 113  | 68.5 | 54.7 | 26.3 | 99.1 | 24.8  | 14.8  | 4.63  | 8.13  |
| MAX         | 205   | 105     | 184  | 437  | 132  | 102  | 89   | 803  | 75    | 70    | 15    | 47    |
| MIN         | 11    | 19      | 27   | 57   | 43   | 38   | 10   | 11   | 9.8   | 3.4   | 2.4   | 2.1   |
| CFSM        | .65   | .49     | .75  | 1.80 | 1.09 | .87  | .42  | 1.58 | .39   | .24   | .07   | .13   |
| IN.         | .74   | .55     | .86  | 2.08 | 1.17 | 1.00 | .47  | 1.82 | .44   | .27   | .08   | .14   |
| CAL YR 1975 | TOTAL | 42051.9 | MEAN | 115  | MAX  | 1770 | MIN  | 9.2  | CFSM  | 1.83  | IN    | 24.87 |
| WTR YR 1976 | TOTAL | 16295.1 | MEAN | 44.5 | MAX  | 803  | MIN  | 2.1  | CFSM  | .71   | IN    | 9.64  |



## ALTAMAHA RIVER BASIN

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02224000 ROCKY CREEK NEAR DUDLEY, GA.--Continued

## WATER-QUALITY RECORDS

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|--------------|------|-----------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| MAR<br>27... | 1330 | 44                                            | --                                                         | 6.8           | 16.0                        | 8.7                                |
| MAY<br>23... | 1300 | 95                                            | 53                                                         | 5.6           | 13.0                        | 7.6                                |

| DATE         | DIS-<br>SOLVED<br>SILICA<br>(SI02)<br>(MG/L) | DIS-<br>SOLVED<br>ALUM-<br>INUM<br>(AL)<br>(UG/L) | DIS-<br>SOLVED<br>IRON<br>(FE)<br>(UG/L) | DIS-<br>SOLVED<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | RICAR-<br>BONATE<br>(HC03)<br>(MG/L) | CAR-<br>BONATE<br>(C03)<br>(MG/L) | ALKA-<br>LITY<br>AS<br>CAC03<br>(MG/L) |
|--------------|----------------------------------------------|---------------------------------------------------|------------------------------------------|----------------------------------------------------|--------------------------------------------------|---------------------------------------------------------|--------------------------------------------|--------------------------------------------------------|--------------------------------------|-----------------------------------|----------------------------------------|
| MAR<br>27... | 6.3                                          | 30                                                | 260                                      | 30                                                 | 7.4                                              | 1.0                                                     | 3.0                                        | .8                                                     | 21                                   | 0                                 | 17                                     |
| MAY<br>23... | 7.4                                          | 40                                                | 290                                      | 0                                                  | 5.7                                              | .8                                                      | 2.9                                        | .7                                                     | 20                                   | 0                                 | 16                                     |

| DATE         | DIS-<br>SOLVED<br>SULFATE<br>(S04)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRATE<br>(NO3)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>(NO2)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|--------------|----------------------------------------------|---------------------------------------------------|--------------------------------------------------|--------------------------------------------|----------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------|
| MAR<br>27... | 1.9                                          | 5.5                                               | .0                                               | .25                                        | 1.1                                          | .00                                        | .00                                          | .25                                                  | .25                                                           | .04                                                | .06                                                         |
| MAY<br>23... | 1.5                                          | 5.3                                               | .1                                               | .25                                        | 1.1                                          | .01                                        | .03                                          | .24                                                  | .26                                                           | .02                                                | .05                                                         |

| DATE         | DIS-<br>SOLVED<br>AMMONIA<br>(NH4)<br>(MG/L) | TOTAL<br>ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOL-<br>VED-<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>ORTHO<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO<br>PHOS-<br>PHATE<br>(P04)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO.<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) |
|--------------|----------------------------------------------|----------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------|
| MAR<br>27... | .08                                          | .31                                                | .35                                                      | .60                                     | 2.7                                       | .05                                       | .01                                                      | .02                                                | .03                                                          | .01                                                          | 60                                                               |
| MAY<br>23... | .06                                          | .44                                                | .46                                                      | .70                                     | 3.1                                       | .06                                       | .01                                                      | .03                                                | .00                                                          | .00                                                          | 64                                                               |

| DATE         | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | DIS-<br>SOLVED<br>ARSENIC<br>(AS)<br>(UG/L) | DIS-<br>SOLVED<br>CAD-<br>MIUM<br>(CD)<br>(UG/L) | DIS-<br>SOLVED<br>CHRO-<br>MIUM<br>(CR)<br>(UG/L) | DIS-<br>SOLVED<br>COPPER<br>(CU)<br>(UG/L) | DIS-<br>SOLVED<br>LEAD<br>(PB)<br>(UG/L) | DIS-<br>SOLVED<br>MERCURY<br>(HG)<br>(UG/L) | DIS-<br>SOLVED<br>SELE-<br>NIUM<br>(SE)<br>(UG/L) | DIS-<br>SOLVED<br>ZINC<br>(ZN)<br>(UG/L) |
|--------------|------------------------------------|---------------------------------------------------|----------------------------------------------|---------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------|------------------------------------------|---------------------------------------------|---------------------------------------------------|------------------------------------------|
| MAR<br>27... | 23                                 | 5                                                 | 70                                           | 1                                           | 0                                                | 0                                                 | 0                                          | 4                                        | .1                                          | 0                                                 | 10                                       |
| MAY<br>23... | 18                                 | 1                                                 | 70                                           | 0                                           | 0                                                | 0                                                 | 3                                          | 0                                        | .0                                          | --                                                | 10                                       |

02225000 ALTAMAHA RIVER NEAR BAXLEY, GA.

LOCATION.--Lat 31°56'20", long 82°21'25", Appling County, 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 mi<sup>2</sup> (30,000 km<sup>2</sup>), approximately.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1949 to June 1951, October 1970 to September 1976 (discontinued).

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 good.

AVERAGE DISCHARGE.--7 years (1949-50, 1971-76), 12,830 ft<sup>3</sup>/s (363 m<sup>3</sup>/s), 15.02 in/yr (381.5 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 97,500 ft<sup>3</sup>/s (2,760 m<sup>3</sup>/s) Mar. 12, 1971, gage height, 22.7 ft (6.92 m); minimum daily, 2,100 ft<sup>3</sup>/s (59.5 m<sup>3</sup>/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 ft<sup>3</sup>/s (3,680 m<sup>3</sup>/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, 53,400 ft<sup>3</sup>/s (1,510 m<sup>3</sup>/s) Mar. 28, gage height, 18.62 ft (5.67 m); minimum, 3,380 ft<sup>3</sup>/s (95.7 m<sup>3</sup>/s) Sept. 23, 24.

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

| DAY               | OCT     | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1                 | 10200   | 8560   | 6480   | 10400  | 16800  | 10200  | 36900  | 6630   | 21500  | 7260   | 4000   | 4730   |
| 2                 | 9660    | 8170   | 6970   | 11600  | 18100  | 10200  | 29200  | 7190   | 19400  | 8260   | 3830   | 4350   |
| 3                 | 9580    | 7970   | 6940   | 12800  | 19600  | 10300  | 23200  | 7890   | 18000  | 8430   | 3960   | 4210   |
| 4                 | 9680    | 7460   | 6660   | 13400  | 20900  | 10300  | 19900  | 8620   | 17100  | 7600   | 4390   | 4110   |
| 5                 | 9690    | 6400   | 7150   | 13700  | 21700  | 10300  | 18000  | 8990   | 17000  | 7380   | 4750   | 4050   |
| 6                 | 9500    | 5720   | 7780   | 14100  | 22500  | 10100  | 16800  | 9360   | 18100  | 7480   | 4520   | 4020   |
| 7                 | 8940    | 6160   | 7820   | 14500  | 23000  | 9330   | 16300  | 9620   | 20000  | 7860   | 4120   | 4250   |
| 8                 | 8300    | 6780   | 7580   | 15100  | 23500  | 9000   | 16000  | 9280   | 23100  | 9570   | 3850   | 4250   |
| 9                 | 9750    | 7190   | 8280   | 15700  | 23800  | 9060   | 15800  | 9110   | 26300  | 10900  | 3830   | 4100   |
| 10                | 11100   | 7450   | 8780   | 16700  | 23700  | 8370   | 15700  | 8780   | 29100  | 11700  | 4040   | 3940   |
| 11                | 11200   | 7300   | 8980   | 17100  | 22400  | 8060   | 15500  | 7950   | 29800  | 12100  | 3890   | 3760   |
| 12                | 11200   | 6670   | 9220   | 17400  | 20900  | 8730   | 14800  | 6920   | 28100  | 12400  | 3900   | 3610   |
| 13                | 11800   | 6470   | 9410   | 17700  | 19500  | 9040   | 13700  | 6290   | 23900  | 12900  | 4210   | 3590   |
| 14                | 12400   | 7500   | 9510   | 18100  | 17600  | 9210   | 12300  | 6140   | 18600  | 13300  | 4210   | 3820   |
| 15                | 12900   | 8450   | 9480   | 18100  | 15700  | 9890   | 11500  | 6550   | 14200  | 12200  | 4140   | 4560   |
| 16                | 13100   | 9470   | 8740   | 17500  | 14500  | 11800  | 11700  | 7690   | 11700  | 10300  | 4300   | 4460   |
| 17                | 12500   | 10500  | 7620   | 16700  | 13600  | 14000  | 11500  | 9190   | 9340   | 9680   | 4640   | 4100   |
| 18                | 11800   | 11100  | 6950   | 15900  | 12600  | 15600  | 10400  | 11500  | 7980   | 10200  | 4630   | 3990   |
| 19                | 12200   | 11200  | 7600   | 15400  | 11300  | 16700  | 9030   | 13500  | 7100   | 10400  | 4260   | 3850   |
| 20                | 12700   | 10500  | 8510   | 14900  | 11000  | 17300  | 7610   | 15000  | 6410   | 8990   | 4020   | 3760   |
| 21                | 13100   | 9820   | 9090   | 14300  | 10700  | 18200  | 6790   | 16600  | 6160   | 7210   | 3820   | 3660   |
| 22                | 13300   | 9870   | 9620   | 13500  | 10500  | 19500  | 6620   | 18700  | 6360   | 6130   | 3950   | 3610   |
| 23                | 13200   | 10200  | 9840   | 13000  | 11000  | 23500  | 7140   | 22900  | 6270   | 6100   | 4110   | 3430   |
| 24                | 13100   | 10300  | 8910   | 12400  | 11400  | 33600  | 7190   | 30000  | 6130   | 6160   | 4050   | 3570   |
| 25                | 12700   | 10100  | 8380   | 12000  | 10800  | 42800  | 6930   | 34200  | 6780   | 6250   | 3770   | 3590   |
| 26                | 11800   | 9030   | 9130   | 11600  | 10500  | 47000  | 6660   | 42900  | 7330   | 6050   | 3550   | 3420   |
| 27                | 11200   | 8030   | 9770   | 11600  | 10500  | 50000  | 6600   | 43400  | 6930   | 5440   | 4060   | 3460   |
| 28                | 11100   | 8050   | 9670   | 12400  | 10500  | 52500  | 6220   | 40500  | 6920   | 5000   | 4400   | 3930   |
| 29                | 10800   | 7680   | 9460   | 13700  | 10500  | 52300  | 5860   | 35100  | 7690   | 4720   | 4530   | 4390   |
| 30                | 9690    | 6920   | 9660   | 15000  | ---    | 49200  | 6210   | 29200  | 7560   | 4890   | 4490   | 4470   |
| 31                | 9210    | ---    | 10000  | 15900  | ---    | 44100  | ---    | 24500  | ---    | 4440   | 4650   | ---    |
| TOTAL             | 347400  | 250980 | 263990 | 452200 | 469100 | 650190 | 392060 | 518200 | 434860 | 261300 | 128870 | 119040 |
| MEAN              | 11210   | 8366   | 8516   | 14590  | 16180  | 20970  | 13070  | 16720  | 14500  | 8429   | 4157   | 3968   |
| MAX               | 13300   | 11200  | 10000  | 18100  | 23800  | 52500  | 36900  | 43400  | 29800  | 13300  | 4750   | 4730   |
| MIN               | 8300    | 5720   | 6480   | 10400  | 10500  | 8060   | 5860   | 6140   | 6130   | 4440   | 3550   | 3420   |
| CFSM              | .97     | .72    | .73    | 1.26   | 1.39   | 1.81   | 1.13   | 1.44   | 1.25   | .73    | .36    | .34    |
| IN.               | 1.11    | .80    | .85    | 1.45   | 1.50   | 2.09   | 1.26   | 1.66   | 1.39   | .84    | .41    | .38    |
| CAL YR 1975 TOTAL | 6921230 |        |        | 18960  |        | 90500  |        | 4930   |        | 1.63   |        | 22.20  |
| WTR YR 1976 TOTAL | 4288190 |        |        | 11720  |        | 52500  |        | 3420   |        | 1.01   |        | 13.75  |

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 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                               |               |                             |                                    |
| 07... | 1600 | 8740                                          | 7.0           | 22.5                        | 7.6                                |
| DEC.  |      |                                               |               |                             |                                    |
| 04... | 0900 | 6660                                          | 7.2           | 12.5                        | 10.0                               |
| JAN.  |      |                                               |               |                             |                                    |
| 06... | 1600 | 14200                                         | 6.8           | 8.7                         | 10.2                               |
| FEB.  |      |                                               |               |                             |                                    |
| 03... | 1130 | 19600                                         | 6.6           | 9.2                         | 10.2                               |
| MAR.  |      |                                               |               |                             |                                    |
| 03... | 1500 | 10300                                         | 6.9           | 17.1                        | 9.9                                |
| APR.  |      |                                               |               |                             |                                    |
| 14... | 1030 | 12300                                         | 6.7           | 19.1                        | 8.0                                |
| MAY   |      |                                               |               |                             |                                    |
| 11... | 1230 | 8180                                          | 6.9           | 22.0                        | 7.7                                |
| JUNE  |      |                                               |               |                             |                                    |
| 08... | 1130 | 22700                                         | 6.5           | 22.0                        | 7.2                                |
| JULY  |      |                                               |               |                             |                                    |
| 06... | 1600 | 7500                                          | 6.3           | 25.0                        | 6.7                                |
| 07... | 1030 | 7640                                          | 6.9           | 25.0                        | 7.0                                |
| AUG.  |      |                                               |               |                             |                                    |
| 03... | 1330 | 3950                                          | 6.4           | 27.0                        | 6.5                                |
| SEP.  |      |                                               |               |                             |                                    |
| 14... | 0800 | 3650                                          | 6.3           | 23.0                        | 4.8                                |

| DATE  | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) |
|-------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| OCT.  |                                          |                                                      |                                                    |                                           |                                    |
| 07... | 27                                       | .29                                                  | <.02                                               | .08                                       | 23                                 |
| DEC.  |                                          |                                                      |                                                    |                                           |                                    |
| 04... | 27                                       | .29                                                  | <.02                                               | .08                                       | 27                                 |
| JAN.  |                                          |                                                      |                                                    |                                           |                                    |
| 06... | 18                                       | .25                                                  | <.02                                               | .07                                       | 19                                 |
| FEB.  |                                          |                                                      |                                                    |                                           |                                    |
| 03... | 15                                       | .20                                                  | .02                                                | .06                                       | 17                                 |
| MAR.  |                                          |                                                      |                                                    |                                           |                                    |
| 03... | 22                                       | .33                                                  | .06                                                | .07                                       | 22                                 |
| APR.  |                                          |                                                      |                                                    |                                           |                                    |
| 14... | 23                                       | .27                                                  | .04                                                | .07                                       | 20                                 |
| MAY   |                                          |                                                      |                                                    |                                           |                                    |
| 11... | 24                                       | .40                                                  | <.02                                               | .06                                       | 25                                 |
| JUNE  |                                          |                                                      |                                                    |                                           |                                    |
| 08... | 17                                       | .18                                                  | <.02                                               | .07                                       | 16                                 |
| JULY  |                                          |                                                      |                                                    |                                           |                                    |
| 07... | 25                                       | .40                                                  | .03                                                | .07                                       | 25                                 |
| AUG.  |                                          |                                                      |                                                    |                                           |                                    |
| 03... | 36                                       | .38                                                  | .02                                                | .06                                       | 36                                 |
| SEP.  |                                          |                                                      |                                                    |                                           |                                    |
| 14... | 36                                       | .49                                                  | <.02                                               | .05                                       | 36                                 |



02225000 ALTAMAHA RIVER NEAR BAXLEY, GA.--Continued

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH     |     |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-----------|-----|
|       | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | 77      | 73  | 85       | 80  | 82       | 78  | 82      | 70  | 68       | 60  | 80        | 73  |
| 2     | 80      | 77  | 85       | 79  | 87       | 83  | 81      | 67  | 67       | 56  | 80        | 72  |
| 3     | 83      | 79  | 83       | 78  | 83       | 79  | 79      | 70  | 65       | 55  | 81        | 72  |
| 4     | 82      | 78  | 82       | 79  | 83       | 77  | 79      | 68  | 60       | 54  | 80        | 73  |
| 5     | 80      | 73  | 89       | 82  | 83       | 74  | 79      | 67  | 60       | 52  | 78        | 71  |
| 6     | 79      | 76  | 93       | 89  | 75       | 71  | 73      | 65  | 56       | 51  | 79        | 75  |
| 7     | 84      | 77  | 92       | 90  | 76       | 72  | 68      | 62  | 60       | 53  | 86        | 73  |
| 8     | 85      | 81  | 91       | 80  | 79       | 73  | 64      | 59  | 64       | 53  | 80        | 72  |
| 9     | 81      | 73  | 81       | 78  | 80       | 75  | 68      | 65  | 59       | 51  | 78        | 69  |
| 10    | 75      | 68  | 79       | 75  | 81       | 77  | 68      | 60  | 57       | 50  | 82        | 71  |
| 11    | 74      | 70  | 80       | 75  | 83       | 75  | 73      | 62  | 61       | 51  | 83        | 69  |
| 12    | 76      | 72  | 84       | 80  | 83       | 74  | 71      | 61  | 59       | 51  | 85        | 70  |
| 13    | 75      | 70  | 93       | 85  | 82       | 73  | 71      | 63  | 60       | 51  | 79        | 68  |
| 14    | 72      | 67  | 96       | 88  | 76       | 72  | 71      | 61  | 61       | 51  | 83        | 74  |
| 15    | 70      | 67  | 89       | 84  | 80       | 76  | 73      | 62  | 60       | 51  | 82        | 71  |
| 16    | 71      | 67  | 86       | 76  | 82       | 79  | 71      | 60  | 60       | 51  | 77        | 68  |
| 17    | 68      | 67  | 79       | 73  | 85       | 80  | 72      | 63  | 62       | 52  | 74        | 66  |
| 18    | 71      | 68  | 79       | 71  | 98       | 85  | 74      | 64  | 67       | 61  | 72        | 63  |
| 19    | 72      | 69  | 76       | 70  | 102      | 94  | 75      | 59  | 69       | 64  | 70        | 62  |
| 20    | 74      | 70  | 73       | 69  | 100      | 90  | 73      | 61  | 76       | 68  | 66        | 57  |
| 21    | 75      | 70  | 73       | 68  | 99       | 88  | 72      | 59  | 73       | 67  | 62        | 58  |
| 22    | 75      | 70  | 76       | 73  | 97       | 89  | 67      | 61  | 75       | 69  | 63        | 60  |
| 23    | 73      | 68  | 75       | 73  | 97       | 87  | 68      | 64  | 79       | 73  | 64        | 55  |
| 24    | 74      | 67  | 77       | 74  | 97       | 89  | 72      | 62  | 79       | 70  | 60        | 52  |
| 25    | 68      | 65  | 80       | 76  | 93       | 84  | 70      | 60  | 80       | 74  | 56        | 50  |
| 26    | 70      | 65  | 83       | 77  | 91       | 84  | 69      | 60  | 83       | 77  | 54        | 47  |
| 27    | 70      | 66  | 79       | 76  | 91       | 83  | 70      | 62  | 82       | 73  | 50        | 47  |
| 28    | 70      | 66  | 83       | 76  | 87       | 78  | 69      | 61  | 82       | 73  | 50        | 42  |
| 29    | 71      | 69  | 82       | 75  | 88       | 76  | 69      | 57  | 81       | 72  | 46        | 42  |
| 30    | 81      | 72  | 79       | 77  | 88       | 79  | 68      | 58  | ---      | --- | 48        | 44  |
| 31    | 86      | 81  | ---      | --- | 86       | 77  | 68      | 57  | ---      | --- | 50        | 47  |
| MONTH | 86      | 65  | 96       | 68  | 102      | 71  | 82      | 57  | 83       | 50  | 86        | 42  |
| DAY   | APRIL   |     | MAY      |     | JUNE     |     | JULY    |     | AUGUST   |     | SEPTEMBER |     |
|       | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | 58      | 51  | 93       | 79  | 61       | 56  | 77      | 74  | 96       | 88  | 104       | 86  |
| 2     | 62      | 55  | 83       | 77  | 64       | 60  | 78      | 70  | 102      | 89  | 93        | 83  |
| 3     | 65      | 57  | 83       | 74  | 67       | 63  | 74      | 70  | 108      | 101 | 92        | 86  |
| 4     | 64      | 57  | 81       | 73  | 65       | 64  | 73      | 71  | 106      | 100 | 95        | 87  |
| 5     | 64      | 59  | 80       | 71  | 66       | 61  | 79      | 74  | 107      | 95  | 97        | 85  |
| 6     | 66      | 63  | 79       | 74  | 63       | 56  | 80      | 76  | 95       | 85  | 92        | 86  |
| 7     | 66      | 60  | 76       | 72  | 59       | 51  | 82      | 75  | 92       | 88  | 95        | 89  |
| 8     | 66      | 60  | 76       | 71  | 56       | 49  | 77      | 65  | 93       | 88  | 98        | 88  |
| 9     | 65      | 59  | 79       | 73  | 55       | 48  | 66      | 59  | 102      | 94  | 91        | 83  |
| 10    | 66      | 58  | 78       | 72  | 55       | 49  | 65      | 59  | 103      | 99  | 92        | 82  |
| 11    | 67      | 58  | 80       | 74  | 55       | 50  | 65      | 59  | 103      | 97  | 101       | 91  |
| 12    | 65      | 62  | 84       | 79  | 57       | 51  | 65      | 60  | 101      | 95  | 105       | 95  |
| 13    | 70      | 63  | 89       | 83  | 60       | 55  | 65      | 57  | 100      | 94  | 104       | 100 |
| 14    | 71      | 66  | 93       | 88  | 64       | 59  | 70      | 58  | 100      | 96  | 105       | 101 |
| 15    | 75      | 70  | 94       | 90  | 71       | 65  | 72      | 57  | 105      | 97  | 100       | 80  |
| 16    | 75      | 64  | 91       | 79  | 77       | 72  | 71      | 59  | 101      | 95  | 89        | 75  |
| 17    | 71      | 64  | 80       | 69  | 78       | 74  | 73      | 60  | 100      | 93  | 91        | 79  |
| 18    | 73      | 64  | 73       | 65  | 84       | 79  | 78      | 72  | 94       | 88  | 102       | 90  |
| 19    | 73      | 66  | 67       | 58  | 89       | 85  | 80      | 75  | 97       | 91  | 106       | 92  |
| 20    | 76      | 70  | 64       | 56  | 89       | 87  | 84      | 78  | 104      | 94  | 103       | 93  |
| 21    | 80      | 76  | 61       | 51  | 92       | 84  | 91      | 84  | 104      | 94  | 104       | 98  |
| 22    | 85      | 80  | 55       | 52  | 91       | 84  | 94      | 90  | 101      | 90  | 114       | 104 |
| 23    | 90      | 79  | 54       | 51  | 96       | 89  | 97      | 93  | 98       | 88  | 121       | 105 |
| 24    | 81      | 70  | 52       | 47  | 97       | 90  | 97      | 84  | 98       | 88  | 113       | 105 |
| 25    | 80      | 74  | 50       | 46  | 93       | 89  | 87      | 79  | 100      | 90  | 112       | 106 |
| 26    | 84      | 78  | 50       | 45  | 90       | 69  | 88      | 81  | 107      | 94  | 111       | 101 |
| 27    | 88      | 79  | 55       | 46  | 76       | 72  | 92      | 87  | 110      | 100 | 107       | 101 |
| 28    | 87      | 80  | 56       | 52  | 79       | 75  | 97      | 91  | 110      | 87  | 108       | 102 |
| 29    | 89      | 85  | 57       | 53  | 81       | 75  | 96      | 91  | 100      | 88  | 108       | 92  |
| 30    | 92      | 89  | 60       | 54  | 75       | 68  | 98      | 94  | 106      | 90  | 99        | 89  |
| 31    | ---     | --- | 61       | 56  | ---      | --- | 98      | 87  | 106      | 94  | ---       | --- |
| MONTH | 92      | 51  | 94       | 45  | 97       | 48  | 98      | 57  | 110      | 85  | 121       | 75  |

02225000 ALTAMAHA RIVER NEAR BAXLEY, GA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH     |     |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-----------|-----|
|       | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | 7.1     | 7.0 | 7.2      | 7.1 | 7.1      | 7.0 | 6.9     | 6.8 | 6.9      | 6.6 | 7.1       | 6.9 |
| 2     | 7.1     | 7.0 | 7.2      | 7.1 | 7.2      | 7.1 | 6.8     | 6.7 | 6.9      | 6.7 | 7.1       | 6.9 |
| 3     | 7.2     | 7.1 | 7.2      | 7.2 | 7.2      | 7.0 | 6.7     | 6.6 | 6.9      | 6.6 | 7.1       | 6.8 |
| 4     | 7.2     | 7.0 | 7.2      | 7.1 | 7.2      | 7.1 | 6.8     | 6.7 | 6.8      | 6.7 | 7.0       | 6.9 |
| 5     | 7.2     | 7.1 | 7.1      | 7.0 | 7.2      | 7.1 | 6.9     | 6.8 | 6.7      | 6.7 | 7.0       | 6.8 |
| 6     | 7.1     | 7.0 | 7.1      | 7.0 | 7.2      | 7.1 | 6.9     | 6.8 | 6.7      | 6.6 | 7.0       | 6.8 |
| 7     | 7.1     | 7.0 | 7.2      | 7.0 | 7.1      | 7.1 | 7.2     | 6.8 | 6.8      | 6.6 | 7.0       | 6.9 |
| 8     | 7.1     | 7.0 | 7.2      | 7.1 | 7.1      | 7.1 | 7.5     | 6.7 | 6.9      | 6.7 | 7.0       | 7.0 |
| 9     | 7.0     | 6.8 | 7.1      | 7.0 | 7.2      | 7.1 | 7.0     | 6.8 | 6.9      | 6.7 | 7.0       | 6.9 |
| 10    | 6.9     | 6.8 | 7.1      | 7.0 | 7.3      | 7.2 | 6.9     | 6.7 | 6.9      | 6.7 | 7.0       | 7.0 |
| 11    | 7.0     | 6.9 | 7.1      | 7.0 | 7.3      | 7.1 | 6.8     | 6.6 | 6.8      | 6.7 | 7.1       | 7.0 |
| 12    | 7.0     | 6.9 | 7.1      | 7.0 | 7.3      | 7.1 | 6.7     | 6.6 | 6.8      | 6.8 | 7.1       | 6.9 |
| 13    | 7.0     | 6.9 | 7.4      | 7.1 | 7.2      | 7.1 | 6.8     | 6.6 | 6.9      | 6.7 | 7.0       | 6.9 |
| 14    | 7.0     | 6.9 | 7.4      | 7.3 | 7.2      | 7.1 | 6.8     | 6.5 | 6.9      | 6.8 | 7.1       | 7.0 |
| 15    | 6.9     | 6.9 | 7.4      | 7.3 | 7.1      | 7.0 | 6.7     | 6.6 | 6.9      | 6.8 | 7.1       | 6.9 |
| 16    | 6.9     | 6.9 | 7.3      | 7.1 | 7.1      | 7.0 | 6.7     | 6.6 | 6.9      | 6.8 | 6.9       | 6.8 |
| 17    | 6.9     | 6.9 | 7.3      | 7.0 | 7.0      | 7.0 | 6.8     | 6.6 | 6.9      | 6.7 | 6.9       | 6.7 |
| 18    | 6.9     | 6.9 | 7.2      | 7.0 | 7.3      | 7.0 | 6.9     | 6.8 | 6.9      | 6.8 | 6.8       | 6.6 |
| 19    | 7.0     | 6.9 | 7.1      | 6.9 | 7.3      | 7.2 | 6.9     | 6.8 | 6.9      | 6.8 | 6.7       | 6.5 |
| 20    | 7.0     | 6.9 | 7.1      | 7.0 | 7.3      | 7.2 | 6.9     | 6.7 | 7.0      | 6.9 | 6.6       | 6.4 |
| 21    | 7.1     | 6.9 | 7.1      | 7.0 | 7.3      | 7.2 | 6.9     | 6.8 | 7.0      | 6.9 | 6.5       | 6.4 |
| 22    | 7.1     | 6.9 | 7.2      | 7.1 | 7.3      | 7.2 | 7.0     | 6.9 | 7.1      | 6.9 | 6.6       | 6.5 |
| 23    | 7.0     | 6.9 | 7.2      | 7.1 | 7.3      | 7.1 | 7.1     | 6.9 | 7.2      | 7.0 | 6.5       | 6.4 |
| 24    | 7.0     | 6.9 | 7.2      | 7.1 | 7.3      | 7.0 | 7.0     | 6.9 | 7.2      | 7.0 | 6.5       | 6.3 |
| 25    | 6.9     | 6.9 | 7.2      | 7.1 | 7.1      | 6.9 | 7.0     | 6.8 | 7.1      | 6.9 | 6.4       | 6.3 |
| 26    | 6.9     | 6.9 | 7.3      | 7.1 | 7.1      | 7.0 | 6.9     | 6.8 | 7.1      | 7.0 | 6.4       | 6.2 |
| 27    | 7.0     | 6.9 | 7.2      | 7.0 | 7.1      | 7.0 | 6.9     | 6.7 | 7.1      | 7.0 | 6.3       | 6.2 |
| 28    | 7.0     | 6.9 | 7.2      | 7.2 | 7.1      | 6.9 | 7.0     | 6.8 | 7.1      | 7.0 | 6.3       | 6.0 |
| 29    | 7.0     | 6.9 | 7.2      | 7.0 | 7.1      | 6.9 | 7.0     | 6.7 | 7.1      | 6.9 | 6.2       | 6.0 |
| 30    | 7.0     | 6.9 | 7.1      | 7.0 | 7.7      | 6.9 | 6.9     | 6.8 | ---      | --- | 6.2       | 6.1 |
| 31    | 7.2     | 7.1 | ---      | --- | 7.3      | 6.8 | 6.9     | 6.8 | ---      | --- | 6.3       | 6.2 |
| MONTH | 7.2     | 6.8 | 7.4      | 6.9 | 7.7      | 6.8 | 7.5     | 6.5 | 7.2      | 6.6 | 7.1       | 6.0 |
| DAY   | APRIL   |     | MAY      |     | JUNE     |     | JULY    |     | AUGUST   |     | SEPTEMBER |     |
|       | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | 6.5     | 6.3 | 7.1      | 6.9 | 6.6      | 6.3 | 6.9     | 6.8 | 7.1      | 6.9 | 7.2       | 7.1 |
| 2     | 6.6     | 6.4 | 7.1      | 6.9 | 6.6      | 6.4 | 6.9     | 6.6 | 7.2      | 7.0 | 7.2       | 7.0 |
| 3     | 6.6     | 6.5 | 7.1      | 6.8 | 6.6      | 6.5 | 6.8     | 6.5 | 7.2      | 7.1 | 7.2       | 7.1 |
| 4     | 6.6     | 6.5 | 7.0      | 6.9 | 6.7      | 6.6 | 6.8     | 6.7 | 7.1      | 7.0 | 7.3       | 7.2 |
| 5     | 6.7     | 6.6 | 7.0      | 6.8 | 6.8      | 6.7 | 7.0     | 6.8 | 7.1      | 6.9 | 7.2       | 7.1 |
| 6     | 6.7     | 6.7 | 7.0      | 6.7 | 6.8      | 6.6 | 7.0     | 6.9 | 7.0      | 6.9 | 7.2       | 7.1 |
| 7     | 6.7     | 6.6 | 6.9      | 6.8 | 6.7      | 6.5 | 7.0     | 6.7 | 7.0      | 6.9 | 7.2       | 7.2 |
| 8     | 6.7     | 6.7 | 6.9      | 6.8 | 6.6      | 6.3 | 6.8     | 6.5 | 7.0      | 6.9 | 7.2       | 7.1 |
| 9     | 6.8     | 6.7 | 7.0      | 6.9 | 6.6      | 6.3 | 6.7     | 6.4 | 7.1      | 7.0 | 7.2       | 7.1 |
| 10    | 6.9     | 6.6 | 7.0      | 6.9 | 6.6      | 6.3 | 6.6     | 6.4 | 7.1      | 7.0 | 7.1       | 7.0 |
| 11    | 6.8     | 6.6 | 7.0      | 6.9 | 6.6      | 6.3 | 6.7     | 6.4 | 7.1      | 7.0 | 7.3       | 7.1 |
| 12    | 6.7     | 6.7 | 7.1      | 6.8 | 6.6      | 6.2 | 6.7     | 6.4 | 7.1      | 7.0 | 7.3       | 7.2 |
| 13    | 6.8     | 6.7 | 7.1      | 6.8 | 6.6      | 6.4 | 6.6     | 6.3 | 7.1      | 6.9 | 7.3       | 7.3 |
| 14    | 6.8     | 6.7 | 7.1      | 7.0 | 6.7      | 6.5 | 6.6     | 6.4 | 7.0      | 6.9 | 7.3       | 7.3 |
| 15    | 6.8     | 6.7 | 7.2      | 7.0 | 6.7      | 6.6 | 6.7     | 6.3 | 7.0      | 6.9 | 7.3       | 6.9 |
| 16    | 6.9     | 6.7 | 7.1      | 6.9 | 6.8      | 6.6 | 6.7     | 6.4 | 7.0      | 6.9 | 6.9       | 6.6 |
| 17    | 6.9     | 6.7 | 7.0      | 6.7 | 6.8      | 6.7 | 6.7     | 6.5 | 7.0      | 7.0 | 6.9       | 6.7 |
| 18    | 6.9     | 6.6 | 6.9      | 6.8 | 6.9      | 6.8 | 6.8     | 6.7 | 7.1      | 7.0 | 7.0       | 6.9 |
| 19    | 6.8     | 6.6 | 6.9      | 6.7 | 7.0      | 6.8 | 6.8     | 6.6 | 7.1      | 7.1 | 7.1       | 6.9 |
| 20    | 6.8     | 6.6 | 6.8      | 6.5 | 7.0      | 6.9 | 7.0     | 6.7 | 7.1      | 6.7 | 7.1       | 7.0 |
| 21    | 6.9     | 6.7 | 6.7      | 6.4 | 7.0      | 6.8 | 7.0     | 6.8 | 6.7      | 6.7 | 7.1       | 7.1 |
| 22    | 6.9     | 6.8 | 6.6      | 6.5 | 6.9      | 6.7 | 7.1     | 6.9 | 6.7      | 6.7 | 7.2       | 7.1 |
| 23    | 7.1     | 6.8 | 6.5      | 6.4 | 6.9      | 6.8 | 7.1     | 7.0 | 6.7      | 6.7 | 7.2       | 7.1 |
| 24    | 7.0     | 6.7 | 6.5      | 6.3 | 7.0      | 6.8 | 7.2     | 7.0 | 6.8      | 6.7 | 7.1       | 7.0 |
| 25    | 6.9     | 6.8 | 6.4      | 6.3 | 7.0      | 6.8 | 7.1     | 6.8 | 6.8      | 6.8 | 7.1       | 7.0 |
| 26    | 7.2     | 6.9 | 6.4      | 6.2 | 7.0      | 6.6 | 7.1     | 7.0 | 6.8      | 6.8 | 7.1       | 7.0 |
| 27    | 7.2     | 7.0 | 6.4      | 6.3 | 6.9      | 6.8 | 7.1     | 6.9 | 6.9      | 6.9 | 7.1       | 6.9 |
| 28    | 7.1     | 6.9 | 6.4      | 6.3 | 6.9      | 6.8 | 7.0     | 6.9 | 6.9      | 6.9 | 7.1       | 6.9 |
| 29    | 7.1     | 7.0 | 6.4      | 6.2 | 7.0      | 6.7 | 7.0     | 6.9 | 7.0      | 6.9 | 7.1       | 7.0 |
| 30    | 7.1     | 7.0 | 6.5      | 6.2 | 6.9      | 6.7 | 7.1     | 7.0 | 7.0      | 6.9 | 7.1       | 7.0 |
| 31    | ---     | --- | 6.5      | 6.3 | ---      | --- | 7.1     | 6.9 | 7.0      | 7.0 | ---       | --- |
| MONTH | 7.2     | 6.3 | 7.2      | 6.2 | 7.0      | 6.2 | 7.2     | 6.3 | 7.2      | 6.7 | 7.3       | 6.6 |



02225000 ALTAMAHA RIVER NEAR BAXLEY, GA.--Continued

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

## ALTAMAHA RIVER BASIN

02225000 ALTAMAHA RIVER NEAR BAXLEY, GA.--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | OCTOBER |     | NOVEMBER |      | DECEMBER |      | JANUARY |      | FEBRUARY |      | MARCH     |      |
|-------|---------|-----|----------|------|----------|------|---------|------|----------|------|-----------|------|
|       | MAX     | MIN | MAX      | MIN  | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX       | MIN  |
| 1     | 7.7     | 7.6 | 8.4      | 8.2  | 9.7      | 9.6  | 10.4    | 10.1 | 10.8     | 10.5 | 10.3      | 10.0 |
| 2     | 7.7     | 7.5 | 8.5      | 8.4  | 10.0     | 9.7  | 10.1    | 10.0 | 10.6     | 10.2 | 10.2      | 9.9  |
| 3     | 7.8     | 7.6 | 8.5      | 8.4  | 9.9      | 9.8  | 10.0    | 9.8  | 10.4     | 10.2 | 10.1      | 9.7  |
| 4     | 7.8     | 7.7 | 8.5      | 8.4  | 10.0     | 9.8  | 9.9     | 9.8  | 10.4     | 10.2 | 10.1      | 9.8  |
| 5     | 7.9     | 7.5 | 8.4      | 8.1  | 10.1     | 10.0 | 10.0    | 9.6  | 10.4     | 10.1 | 10.0      | 9.6  |
| 6     | 7.8     | 7.6 | 8.1      | 8.0  | 10.2     | 10.1 | 10.3    | 10.0 | 10.5     | 10.2 | 9.9       | 9.5  |
| 7     | 7.8     | 7.4 | 8.2      | 8.1  | 10.1     | 9.9  | 10.4    | 10.2 | 10.4     | 9.8  | 9.7       | 9.6  |
| 8     | 7.6     | 7.3 | 8.3      | 8.2  | 9.9      | 9.7  | 10.5    | 10.3 | 10.1     | 9.9  | 9.9       | 9.5  |
| 9     | 7.4     | 7.1 | 8.2      | 8.1  | 9.8      | 9.8  | 10.6    | 10.3 | 10.2     | 9.8  | 9.8       | 9.5  |
| 10    | 7.3     | 7.1 | 8.1      | 7.9  | 10.1     | 9.9  | 10.8    | 10.5 | 10.3     | 9.5  | 9.6       | 9.4  |
| 11    | 7.3     | 7.3 | 8.0      | 7.8  | 10.3     | 10.2 | 11.1    | 10.8 | 10.6     | 10.2 | 9.8       | 9.4  |
| 12    | 7.3     | 7.3 | 7.9      | 7.7  | 10.6     | 10.4 | 11.2    | 11.0 | 10.6     | 10.4 | 9.9       | 9.4  |
| 13    | 7.4     | 7.3 | 8.4      | 7.9  | 10.6     | 10.6 | 11.4    | 11.0 | 10.5     | 10.2 | 9.9       | 9.6  |
| 14    | 7.3     | 7.2 | 8.8      | 8.4  | 10.7     | 10.5 | 11.1    | 10.6 | 10.1     | 9.6  | 10.1      | 9.6  |
| 15    | 7.2     | 7.1 | 9.1      | 8.8  | 10.5     | 10.2 | 10.7    | 10.5 | 10.0     | 9.7  | 10.3      | 9.7  |
| 16    | 7.1     | 7.0 | 9.3      | 9.1  | 10.2     | 9.9  | 10.6    | 10.4 | 9.9      | 9.7  | 10.4      | 9.7  |
| 17    | 7.2     | 7.1 | 9.4      | 9.3  | 9.9      | 9.6  | 10.6    | 10.4 | 9.8      | 9.5  | 9.8       | 9.0  |
| 18    | 7.2     | 7.1 | 9.5      | 9.4  | 9.9      | 9.6  | 10.9    | 10.5 | 9.9      | 9.6  | 10.2      | 9.3  |
| 19    | 7.4     | 7.2 | 9.6      | 9.5  | 10.5     | 10.0 | 11.2    | 10.8 | 9.7      | 9.5  | 10.4      | 9.8  |
| 20    | 7.6     | 7.4 | 9.6      | 9.5  | 10.8     | 10.5 | 11.4    | 11.0 | 9.8      | 9.4  | 10.2      | 8.9  |
| 21    | 7.8     | 7.6 | 9.6      | 9.5  | 11.1     | 10.8 | 11.5    | 11.3 | 10.0     | 9.6  | 9.2       | 8.8  |
| 22    | 8.0     | 7.8 | 9.6      | 9.5  | 11.2     | 11.1 | 11.5    | 11.5 | 10.0     | 9.6  | 9.4       | 8.6  |
| 23    | 7.9     | 7.8 | 9.7      | 9.6  | 11.3     | 11.2 | 11.5    | 11.4 | 10.1     | 9.7  | 9.2       | 8.8  |
| 24    | 8.0     | 7.9 | 9.8      | 9.7  | 11.4     | 11.3 | 11.5    | 11.3 | 10.5     | 9.7  | 9.3       | 8.9  |
| 25    | 7.9     | 7.7 | 10.0     | 9.8  | 11.4     | 11.4 | 11.3    | 11.1 | 10.5     | 9.8  | 8.9       | 8.6  |
| 26    | 7.9     | 7.9 | 10.1     | 10.0 | 11.5     | 11.2 | 11.2    | 10.9 | 10.5     | 10.3 | 8.5       | 8.2  |
| 27    | 8.0     | 7.9 | 10.1     | 10.0 | 11.1     | 11.0 | 10.9    | 10.5 | 10.6     | 10.4 | 8.4       | 8.0  |
| 28    | 7.9     | 7.8 | 10.2     | 10.0 | 11.0     | 11.0 | 10.5    | 10.1 | 10.5     | 10.1 | 8.0       | 7.8  |
| 29    | 7.9     | 7.7 | 10.1     | 9.9  | 11.0     | 11.0 | 10.3    | 10.0 | 10.5     | 10.2 | 7.9       | 7.6  |
| 30    | 7.8     | 7.7 | 10.0     | 9.8  | 10.9     | 10.8 | 10.9    | 10.3 | ---      | ---  | 7.6       | 7.3  |
| 31    | 8.1     | 7.9 | ---      | ---  | 10.7     | 10.5 | 10.7    | 10.5 | ---      | ---  | 7.7       | 7.3  |
| MONTH | 8.1     | 7.0 | 10.2     | 7.7  | 11.5     | 9.6  | 11.5    | 9.6  | 10.8     | 9.4  | 10.4      | 7.3  |
| DAY   | APRIL   |     | MAY      |      | JUNE     |      | JULY    |      | AUGUST   |      | SEPTEMBER |      |
|       | MAX     | MIN | MAX      | MIN  | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX       | MIN  |
| 1     | 7.5     | 7.1 | 8.2      | 7.7  | 6.7      | 6.6  | 6.9     | 6.7  | 7.2      | 6.9  | 7.2       | 7.0  |
| 2     | 7.5     | 7.1 | 8.4      | 7.7  | 6.7      | 6.4  | 6.8     | 6.5  | 7.3      | 6.9  | 7.2       | 7.1  |
| 3     | 7.6     | 7.4 | 8.5      | 7.7  | 6.7      | 6.6  | 6.6     | 6.4  | 7.6      | 6.9  | 7.6       | 7.2  |
| 4     | 7.7     | 7.3 | 8.6      | 7.8  | 6.8      | 6.5  | 6.7     | 6.4  | 7.8      | 7.0  | 7.8       | 7.5  |
| 5     | 7.8     | 7.3 | 8.6      | 8.1  | 7.0      | 6.6  | 6.9     | 6.7  | 7.8      | 7.5  | 7.9       | 7.7  |
| 6     | 7.5     | 7.3 | 8.5      | 7.8  | 7.1      | 6.9  | 7.1     | 7.0  | 7.7      | 7.4  | 8.1       | 7.9  |
| 7     | 7.7     | 7.3 | 8.0      | 7.4  | 7.2      | 7.1  | 7.6     | 7.0  | 7.5      | 7.3  | 8.3       | 8.2  |
| 8     | 7.6     | 7.2 | 8.2      | 7.7  | 7.7      | 7.2  | 7.6     | 7.4  | 7.6      | 7.2  | 8.5       | 8.4  |
| 9     | 7.5     | 7.1 | 8.7      | 7.7  | 7.7      | 7.5  | 7.4     | 7.2  | 7.4      | 7.1  | 8.5       | 8.3  |
| 10    | 7.8     | 7.4 | 8.6      | 8.1  | 7.7      | 7.5  | 7.2     | 7.1  | 7.5      | 7.1  | 8.5       | 8.3  |
| 11    | 7.9     | 7.7 | 8.1      | 7.6  | 7.6      | 7.4  | 7.2     | 6.8  | 7.2      | 6.9  | 8.6       | 8.3  |
| 12    | 8.0     | 7.6 | 8.1      | 7.3  | 7.5      | 7.2  | 7.1     | 6.8  | 7.0      | 6.7  | 8.6       | 8.4  |
| 13    | 8.0     | 7.7 | 8.4      | 7.4  | 7.2      | 7.0  | 6.9     | 6.5  | 6.7      | 6.2  | 8.7       | 8.2  |
| 14    | 9.2     | 7.8 | 7.8      | 7.4  | 7.1      | 6.8  | 6.6     | 6.3  | 6.1      | 5.9  | 8.3       | 8.0  |
| 15    | 9.3     | 9.2 | 8.0      | 7.0  | 6.9      | 6.8  | 6.4     | 6.2  | 5.8      | 5.6  | 8.2       | 7.3  |
| 16    | 9.4     | 9.2 | 7.7      | 7.1  | 6.8      | 6.6  | 6.3     | 6.1  | 5.7      | 5.4  | 7.4       | 7.2  |
| 17    | 9.3     | 8.9 | 7.6      | 7.0  | 6.7      | 6.4  | 6.5     | 6.2  | 5.4      | 5.2  | 7.6       | 7.4  |
| 18    | 9.0     | 8.6 | 6.9      | 6.3  | 6.8      | 6.6  | 6.5     | 6.5  | 6.1      | 5.3  | 7.7       | 7.3  |
| 19    | 8.7     | 8.1 | 7.2      | 6.4  | 6.8      | 6.6  | 6.5     | 6.4  | 7.3      | 5.9  | 7.9       | 7.5  |
| 20    | 8.2     | 7.6 | 7.2      | 6.6  | 6.8      | 6.6  | 6.5     | 6.2  | 8.0      | 7.6  | 7.9       | 7.6  |
| 21    | 7.9     | 7.5 | 7.2      | 6.8  | 6.7      | 6.6  | 6.6     | 6.5  | 8.2      | 7.6  | 7.9       | 7.6  |
| 22    | 7.9     | 7.6 | 7.1      | 6.7  | 6.9      | 6.4  | 6.7     | 6.5  | 8.2      | 7.9  | 8.0       | 7.7  |
| 23    | 8.0     | 7.4 | 7.1      | 7.0  | 6.9      | 6.8  | 6.9     | 6.7  | 8.0      | 7.3  | 8.0       | 7.8  |
| 24    | 8.1     | 7.8 | 6.7      | 6.4  | 7.0      | 6.8  | 7.0     | 6.9  | 7.3      | 7.0  | 8.2       | 7.8  |
| 25    | 8.3     | 7.6 | 7.0      | 6.8  | 6.9      | 6.7  | 7.1     | 6.8  | 7.2      | 6.8  | 8.1       | 7.8  |
| 26    | 8.2     | 7.5 | 6.9      | 6.7  | 6.8      | 6.5  | 7.1     | 7.0  | 7.0      | 6.6  | 8.1       | 7.8  |
| 27    | 8.3     | 7.8 | 6.8      | 6.1  | 6.7      | 6.6  | 7.1     | 6.9  | 7.2      | 6.7  | 7.9       | 7.7  |
| 28    | 8.2     | 7.6 | 6.6      | 5.9  | 6.8      | 6.7  | 7.0     | 6.9  | 7.2      | 6.9  | 7.8       | 7.5  |
| 29    | 8.4     | 7.8 | 6.6      | 5.8  | 6.9      | 6.7  | 7.2     | 6.9  | 7.3      | 7.0  | 7.6       | 7.4  |
| 30    | 8.3     | 7.6 | 6.6      | 5.7  | 6.8      | 6.6  | 7.3     | 7.1  | 7.2      | 6.7  | 7.5       | 7.4  |
| 31    | ---     | --- | 6.7      | 6.0  | ---      | ---  | 7.3     | 7.0  | 7.2      | 7.0  | ---       | ---  |
| MONTH | 9.4     | 7.1 | 8.7      | 5.7  | 7.7      | 6.4  | 7.6     | 6.1  | 8.2      | 5.2  | 8.7       | 7.0  |

## 02225500 OHOOPEE RIVER NEAR REIDSVILLE, GA.

LOCATION.--Lat 32°04'42", long 82°10'39", Tattnall County, 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 mi<sup>2</sup> (2,870 km<sup>2</sup>), 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 good.

AVERAGE DISCHARGE.--43 years, 989 ft<sup>3</sup>/s (28.0 m<sup>3</sup>/s), 12.10 in/yr (307.3 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,400 ft<sup>3</sup>/s (691 m<sup>3</sup>/s) Mar. 6, 1966, gage height, 23.34 ft (7.114 m); minimum daily, 19 ft<sup>3</sup>/s (0.54 m<sup>3</sup>/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 ft<sup>3</sup>/s (1,330 m<sup>3</sup>/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,940 ft<sup>3</sup>/s (83.3 m<sup>3</sup>/s) Feb. 3, gage height, 11.31 ft (3.447 m); minimum daily, 118 ft<sup>3</sup>/s (3.34 m<sup>3</sup>/s) Aug. 9-11, Sept. 3-6.

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

| DAY         | OCT   | NOV    | DEC   | JAN   | FEB   | MAR   | APR  | MAY   | JUN   | JUL   | AUG  | SEP   |
|-------------|-------|--------|-------|-------|-------|-------|------|-------|-------|-------|------|-------|
| 1           | 315   | 201    | 185   | 872   | 2600  | 773   | 653  | 122   | 1250  | 1110  | 152  | 119   |
| 2           | 320   | 190    | 180   | 985   | 2820  | 710   | 638  | 151   | 1070  | 964   | 145  | 119   |
| 3           | 336   | 179    | 180   | 1070  | 2910  | 655   | 622  | 264   | 852   | 820   | 138  | 118   |
| 4           | 322   | 179    | 200   | 1130  | 2860  | 611   | 598  | 354   | 700   | 605   | 132  | 118   |
| 5           | 345   | 175    | 215   | 1140  | 2660  | 565   | 555  | 360   | 622   | 493   | 127  | 118   |
| 6           | 354   | 166    | 210   | 1080  | 2440  | 532   | 517  | 301   | 588   | 563   | 123  | 118   |
| 7           | 338   | 160    | 205   | 1000  | 2220  | 502   | 484  | 243   | 486   | 922   | 120  | 155   |
| 8           | 403   | 159    | 195   | 1070  | 2000  | 477   | 450  | 204   | 402   | 1060  | 120  | 150   |
| 9           | 540   | 162    | 190   | 1250  | 1800  | 460   | 415  | 188   | 340   | 910   | 118  | 149   |
| 10          | 592   | 164    | 185   | 1360  | 1640  | 455   | 378  | 170   | 291   | 737   | 118  | 148   |
| 11          | 726   | 177    | 217   | 1480  | 1500  | 442   | 347  | 167   | 254   | 580   | 118  | 146   |
| 12          | 858   | 220    | 281   | 1630  | 1370  | 432   | 315  | 157   | 259   | 481   | 145  | 145   |
| 13          | 770   | 238    | 349   | 1760  | 1250  | 428   | 288  | 150   | 235   | 417   | 536  | 144   |
| 14          | 600   | 312    | 369   | 1800  | 1150  | 455   | 266  | 141   | 228   | 368   | 884  | 161   |
| 15          | 460   | 379    | 340   | 1780  | 1080  | 677   | 247  | 151   | 205   | 319   | 760  | 407   |
| 16          | 388   | 370    | 308   | 1720  | 1030  | 923   | 231  | 196   | 192   | 266   | 436  | 756   |
| 17          | 356   | 349    | 289   | 1570  | 985   | 1280  | 223  | 303   | 180   | 222   | 308  | 880   |
| 18          | 397   | 329    | 295   | 1460  | 940   | 1460  | 205  | 551   | 213   | 220   | 260  | 755   |
| 19          | 549   | 303    | 322   | 1300  | 900   | 1470  | 189  | 805   | 193   | 213   | 231  | 527   |
| 20          | 660   | 279    | 358   | 1180  | 880   | 1480  | 174  | 939   | 235   | 204   | 198  | 376   |
| 21          | 647   | 257    | 396   | 1100  | 852   | 1450  | 163  | 854   | 779   | 185   | 165  | 288   |
| 22          | 548   | 237    | 430   | 1040  | 889   | 1400  | 157  | 658   | 2320  | 188   | 150  | 241   |
| 23          | 466   | 222    | 432   | 973   | 1020  | 1370  | 148  | 532   | 2380  | 177   | 147  | 208   |
| 24          | 399   | 211    | 399   | 918   | 1080  | 1280  | 143  | 750   | 1470  | 161   | 141  | 184   |
| 25          | 347   | 205    | 370   | 878   | 1080  | 1170  | 136  | 1230  | 861   | 157   | 136  | 167   |
| 26          | 308   | 204    | 392   | 850   | 1100  | 1070  | 132  | 2050  | 628   | 163   | 132  | 172   |
| 27          | 278   | 199    | 450   | 1130  | 1090  | 948   | 128  | 2500  | 492   | 257   | 128  | 177   |
| 28          | 254   | 195    | 530   | 1800  | 990   | 856   | 125  | 2390  | 588   | 220   | 124  | 157   |
| 29          | 240   | 195    | 588   | 2090  | 865   | 795   | 122  | 2100  | 1250  | 169   | 122  | 161   |
| 30          | 228   | 190    | 627   | 2240  | ---   | 738   | 121  | 1770  | 1350  | 157   | 121  | 189   |
| 31          | 214   | ---    | 724   | 2410  | ---   | 680   | ---  | 1410  | ---   | 154   | 120  | ---   |
| TOTAL       | 13567 | 6806   | 10411 | 42066 | 44001 | 26544 | 9170 | 22161 | 20913 | 13462 | 6655 | 7553  |
| MEAN        | 438   | 227    | 336   | 1357  | 1517  | 856   | 306  | 715   | 697   | 434   | 215  | 252   |
| MAX         | 858   | 379    | 724   | 2410  | 2910  | 1480  | 653  | 2500  | 2380  | 1110  | 884  | 880   |
| MIN         | 214   | 159    | 180   | 850   | 852   | 428   | 121  | 122   | 180   | 154   | 118  | 118   |
| CFSM        | .39   | .20    | .30   | 1.22  | 1.37  | .77   | .28  | .64   | .63   | .39   | .19  | .23   |
| IN.         | .45   | .23    | .35   | 1.41  | 1.47  | .89   | .31  | .74   | .70   | .45   | .22  | .25   |
| CAL YR 1975 | TOTAL | 573190 | MEAN  | 1570  | MAX   | 10400 | MIN  | 133   | CFSM  | 1.41  | IN   | 19.21 |
| WTR YR 1976 | TOTAL | 223309 | MEAN  | 610   | MAX   | 2910  | MIN  | 118   | CFSM  | .55   | IN   | 7.48  |

## ALTAMAHA RIVER BASIN

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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|--------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| DEC<br>02... | 1515 | 193                                           | 6.3           | 11.0                        | 8.6                                |
| FEB<br>03... | 1515 | 2930                                          | 5.6           | 8.0                         | 10.0                               |
| MAY<br>04... | 1600 | 374                                           | 6.1           | 20.0                        | 8.9                                |
| AUG<br>03... | 1145 | 138                                           | 6.2           | 20.5                        | 6.2                                |

| DATE         | ALKA-<br>LITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) |
|--------------|----------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|
| DEC<br>02... | 11                                     | .10                                                  | --                                                 | .03                                       | 11                                  |
| FEB<br>03... | 2                                      | .03                                                  | 1.7                                                | .02                                       | 8                                   |
| MAY<br>04... | 9                                      | .10                                                  | <.02                                               | .05                                       | 12                                  |
| AUG<br>03... | 10                                     | .09                                                  | <.02                                               | .05                                       | 12                                  |

| DATE         | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>NUM-<br>COBALT<br>UNITS) | TUR-<br>RID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(FC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|--------------|------------------------------------------------------------|---------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| DEC<br>02... | 58                                                         | 40                                          | 3                            | .4                                                           | 150                                              | 12                                          |
| FEB<br>03... | 38                                                         | 70                                          | 8                            | 1.2                                                          | 230                                              | 10                                          |
| MAY<br>04... | 56                                                         | 60                                          | 6                            | 1.1                                                          | 430                                              | 10                                          |
| AUG<br>03... | 44                                                         | 40                                          | 5                            | .5                                                           | 36                                               | 8.0                                         |

ALTAMAHA RIVER BASIN

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02225990 ALTAMAHA RIVER NEAR JESUP, GA.

LOCATION.--Lat 31°39'59", long 81°50'19", Wayne County, at bridge on U.S. Highways 25, 82, and 301, 5 mi (8.0 km) northeast of Jesup.

DRAINAGE AREA.--13,600 mi<sup>2</sup> (35,200 km<sup>2</sup>), 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                               |               |                             |                                    |
| 22... | 0855 | 15000                                         | 6.9           | 17.5                        | 7.3                                |
| DEC.  |      |                                               |               |                             |                                    |
| 10... | 0850 | 8280                                          | 7.2           | 13.0                        | 8.0                                |
| FEB.  |      |                                               |               |                             |                                    |
| 03... | 1245 | 23900                                         | --            | 17.0                        | 6.4                                |
| 29... | 1230 | 13100                                         | 6.9           | 15.0                        | 8.6                                |
| APR.  |      |                                               |               |                             |                                    |
| 06... | 1400 | 27100                                         | 6.6           | 18.0                        | 7.2                                |
| 27... | 1230 | 7370                                          | 7.0           | 23.0                        | 7.4                                |
| MAY   |      |                                               |               |                             |                                    |
| 18... | 1245 | 10100                                         | 7.0           | 23.8                        | 6.9                                |
| JUNE  |      |                                               |               |                             |                                    |
| 07... | 1200 | 21000                                         | 6.8           | 22.0                        | 7.6                                |
| JULY  |      |                                               |               |                             |                                    |
| 06... | 1020 | 10900                                         | 6.1           | 26.0                        | 6.4                                |
| AUG.  |      |                                               |               |                             |                                    |
| 10... | 1350 | 5220                                          | 6.4           | 28.0                        | 7.0                                |
| 30... | 1220 | 5180                                          | 7.3           | 28.0                        | 6.5                                |

| DATE  | ALKA-<br>LINITY<br>AS<br>CaCO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) |
|-------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|------------------------------------|
| OCT.  |                                          |                                                      |                                                    |                                           |                                                      |                                    |
| 22... | 20                                       | .14                                                  | .13                                                | <.02                                      | 7                                                    | 19                                 |
| DEC.  |                                          |                                                      |                                                    |                                           |                                                      |                                    |
| 10... | 21                                       | .33                                                  | .10                                                | .05                                       | 14                                                   | 26                                 |
| FEB.  |                                          |                                                      |                                                    |                                           |                                                      |                                    |
| 03... | 13                                       | .16                                                  | .03                                                | .04                                       | 1                                                    | 15                                 |
| 29... | 19                                       | .25                                                  | <.02                                               | .05                                       | 14                                                   | 20                                 |
| APR.  |                                          |                                                      |                                                    |                                           |                                                      |                                    |
| 06... | 17                                       | .17                                                  | <.02                                               | .07                                       | 7                                                    | 17                                 |
| 27... | 25                                       | .43                                                  | <.02                                               | .07                                       | 27                                                   | 26                                 |
| MAY   |                                          |                                                      |                                                    |                                           |                                                      |                                    |
| 18... | 22                                       | .38                                                  | <.02                                               | .07                                       | 36                                                   | 24                                 |
| JUNE  |                                          |                                                      |                                                    |                                           |                                                      |                                    |
| 07... | 18                                       | .18                                                  | <.02                                               | .06                                       | 12                                                   | 18                                 |
| JULY  |                                          |                                                      |                                                    |                                           |                                                      |                                    |
| 06... | 21                                       | --                                                   | .02                                                | .06                                       | 19                                                   | 22                                 |
| AUG.  |                                          |                                                      |                                                    |                                           |                                                      |                                    |
| 10... | 26                                       | .28                                                  | <.02                                               | .06                                       | 15                                                   | 26                                 |
| 30... | 28                                       | .38                                                  | <.02                                               | .05                                       | 11                                                   | 30                                 |

## ALTAMAHA RIVER BASIN

02225990 ALTAMAHA RIVER NEAR JESUP, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>CORALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | HIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>HROT4)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | TANNIN<br>AND<br>IGNIN<br>(MG/L) |
|-------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|----------------------------------|
| OCT.  |                                                            |                                              |                              |                                                              |                                                  |                                             |                                  |
| 22... | 63                                                         | 40                                           | 20                           | .4                                                           | 430                                              | 7.0                                         | .8                               |
| DEC.  |                                                            |                                              |                              |                                                              |                                                  |                                             |                                  |
| 10... | 89                                                         | 25                                           | 15                           | .2                                                           | 36                                               | 33                                          | .5                               |
| FEB.  |                                                            |                                              |                              |                                                              |                                                  |                                             |                                  |
| 03... | 57                                                         | 70                                           | 18                           | 1.1                                                          | 91                                               | 8.0                                         | --                               |
| 24... | 69                                                         | 60                                           | 23                           | .4                                                           | 36                                               | 5.0                                         | .6                               |
| APR.  |                                                            |                                              |                              |                                                              |                                                  |                                             |                                  |
| 06... | 57                                                         | 100                                          | 36                           | .6                                                           | 150                                              | 9.0                                         | 1.0                              |
| 27... | 82                                                         | 50                                           | 31                           | .4                                                           | <30                                              | 4.0                                         | .3                               |
| MAY   |                                                            |                                              |                              |                                                              |                                                  |                                             |                                  |
| 18... | 72                                                         | 70                                           | 30                           | .8                                                           | 91                                               | 7.0                                         | 1.7                              |
| JUNE  |                                                            |                                              |                              |                                                              |                                                  |                                             |                                  |
| 07... | 58                                                         | 110                                          | 28                           | .6                                                           | 91                                               | 9.0                                         | .9                               |
| JULY  |                                                            |                                              |                              |                                                              |                                                  |                                             |                                  |
| 06... | 67                                                         | 80                                           | 20                           | .7                                                           | 2300                                             | 9.0                                         | --                               |
| AUG.  |                                                            |                                              |                              |                                                              |                                                  |                                             |                                  |
| 10... | 86                                                         | 50                                           | 15                           | --                                                           | --                                               | 5.0                                         | --                               |
| 30... | 94                                                         | 20                                           | 15                           | .2                                                           | <30                                              | 3.0                                         | --                               |



## ALTAMAHA RIVER BASIN

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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 County, 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 mi<sup>2</sup> (35,200 km<sup>2</sup>), 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.--45 years, 13,790 ft<sup>3</sup>/s (391 m<sup>3</sup>/s), 13.77 in/yr (349.8 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 178,000 ft<sup>3</sup>/s (5,040 m<sup>3</sup>/s) Apr. 18, 1936, gage height, 16.03 ft (4.89 m), present datum; minimum, 1,430 ft<sup>3</sup>/s (40.5 m<sup>3</sup>/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 ft<sup>3</sup>/s (8,500 m<sup>3</sup>/s), from rating curve extended above 180,000 ft<sup>3</sup>/s (5,100 m<sup>3</sup>/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 60,800 ft<sup>3</sup>/s (1,720 m<sup>3</sup>/s) Mar. 31, gage height, 12.90 ft (3.932 m); minimum, 4,370 ft<sup>3</sup>/s (124 m<sup>3</sup>/s) Jan. 20.

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

| DAY   | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1     | 11900  | 11200  | 7590   | 12100  | 22000  | 13400  | 56700  | 7060   | 39900  | 10700  | 5580   | 5770   |
| 2     | 11900  | 10400  | 7000   | 12900  | 22900  | 13100  | 50800  | 7270   | 34500  | 11200  | 5100   | 5800   |
| 3     | 11600  | 9680   | 7000   | 13700  | 23900  | 12800  | 43700  | 7520   | 30200  | 11800  | 4970   | 5520   |
| 4     | 11500  | 9210   | 7080   | 14700  | 25100  | 12700  | 37000  | 7970   | 27100  | 12400  | 5490   | 5530   |
| 5     | 11500  | 8820   | 6950   | 15600  | 26600  | 12600  | 31300  | 8580   | 24400  | 12000  | 6220   | 5400   |
| 6     | 11600  | 8000   | 7170   | 16300  | 28300  | 12500  | 27100  | 9050   | 22400  | 10900  | 6840   | 5380   |
| 7     | 11400  | 7190   | 7670   | 16900  | 29400  | 12400  | 23800  | 9370   | 21000  | 10400  | 6610   | 5480   |
| 8     | 11100  | 7100   | 7990   | 17700  | 30000  | 12000  | 21500  | 9820   | 20700  | 10400  | 5940   | 5840   |
| 9     | 10800  | 7530   | 7970   | 18400  | 30300  | 11400  | 19900  | 9950   | 21600  | 11200  | 5360   | 6110   |
| 10    | 11400  | 7940   | 8370   | 18500  | 30500  | 11000  | 19000  | 9810   | 23400  | 12500  | 5060   | 6160   |
| 11    | 12900  | 8260   | 8980   | 19900  | 30600  | 10600  | 18500  | 9600   | 26000  | 13400  | 5100   | 5880   |
| 12    | 14100  | 8290   | 9600   | 20900  | 30400  | 10100  | 18100  | 9130   | 28700  | 13800  | 5090   | 5380   |
| 13    | 14400  | 8090   | 10200  | 21700  | 29600  | 10000  | 17800  | 8280   | 30500  | 13900  | 5140   | 4920   |
| 14    | 14300  | 7820   | 10400  | 22200  | 28200  | 10400  | 17200  | 7540   | 30600  | 14100  | 5610   | 4790   |
| 15    | 14400  | 8240   | 10600  | 22600  | 26300  | 10900  | 16200  | 7350   | 29000  | 14500  | 6050   | 5010   |
| 16    | 14600  | 9070   | 10700  | 23100  | 24300  | 11700  | 14800  | 7980   | 26300  | 14600  | 6160   | 5870   |
| 17    | 14900  | 9890   | 10600  | 23400  | 21900  | 13000  | 13600  | 9020   | 21800  | 13800  | 6330   | 6340   |
| 18    | 15200  | 10700  | 9820   | 23100  | 19700  | 14600  | 13000  | 10100  | 18100  | 12300  | 6180   | 6360   |
| 19    | 14900  | 11500  | 8930   | 22400  | 18200  | 16500  | 12500  | 11400  | 14400  | 11300  | 6020   | 6130   |
| 20    | 14500  | 12000  | 8940   | 21500  | 16700  | 18300  | 11400  | 12900  | 12500  | 11200  | 5570   | 5680   |
| 21    | 14600  | 12200  | 9500   | 20500  | 15300  | 19900  | 9820   | 14500  | 11300  | 11000  | 5150   | 5230   |
| 22    | 15000  | 11700  | 10100  | 19500  | 14500  | 21200  | 8410   | 15100  | 10500  | 9660   | 4870   | 5000   |
| 23    | 15300  | 11300  | 10600  | 18600  | 13900  | 22200  | 7700   | 18300  | 10600  | 8230   | 4800   | 4850   |
| 24    | 15500  | 11200  | 10900  | 17700  | 13700  | 23200  | 7710   | 21000  | 11600  | 7610   | 4890   | 4680   |
| 25    | 15400  | 11400  | 10700  | 16700  | 14000  | 25500  | 7790   | 25400  | 11800  | 7410   | 4880   | 4680   |
| 26    | 15200  | 11400  | 10200  | 15900  | 14200  | 31000  | 7670   | 31600  | 11100  | 7480   | 4680   | 4730   |
| 27    | 14700  | 10400  | 10200  | 16200  | 14000  | 40900  | 7380   | 40100  | 10600  | 7370   | 4430   | 4660   |
| 28    | 14000  | 9300   | 10800  | 17200  | 13700  | 49600  | 7230   | 49600  | 10100  | 7040   | 4600   | 4590   |
| 29    | 13300  | 8650   | 11300  | 18300  | 13500  | 55500  | 6980   | 54000  | 9450   | 6540   | 4970   | 4880   |
| 30    | 12800  | 8160   | 11400  | 19500  | ---    | 59400  | 6650   | 51600  | 9900   | 6040   | 5170   | 5710   |
| 31    | 12100  | ---    | 11700  | 20800  | ---    | 60100  | ---    | 46000  | ---    | 5890   | 5480   | ---    |
| TOTAL | 416800 | 286640 | 290960 | 578500 | 641700 | 658500 | 561240 | 547900 | 610050 | 330670 | 168340 | 162360 |
| MEAN  | 13450  | 9555   | 9386   | 18660  | 22130  | 21240  | 18710  | 17670  | 20340  | 10670  | 5430   | 5412   |
| MAX   | 15500  | 12200  | 11700  | 23400  | 30600  | 60100  | 56700  | 54000  | 39900  | 14600  | 6840   | 6360   |
| MIN   | 10800  | 7100   | 6950   | 12100  | 13500  | 10000  | 6650   | 7060   | 9450   | 5890   | 4430   | 4590   |
| CFSM  | .94    | .70    | .69    | 1.37   | 1.63   | 1.56   | 1.38   | 1.30   | 1.50   | .78    | .40    | .40    |
| IN.   | 1.14   | .78    | .80    | 1.58   | 1.76   | 1.80   | 1.54   | 1.50   | 1.67   | .90    | .46    | .44    |

CAL YR 1975 TOTAL 8608770 MEAN 23590 MAX 103000 MIN 6050 CFSM 1.73 IN 23.55  
 WTR YR 1976 TOTAL 5253660 MEAN 14350 MAX 60100 MIN 4430 CFSM 1.06 IN 14.37

## ALTAMAHA RIVER BASIN

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 September 1976.

WATER TEMPERATURES: November 1967 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 157 micromhos Aug. 16, 1976; minimum recorded, 49 micromhos Mar. 29, 30, 1976.

WATER TEMPERATURES: Maximum, 33.0°C Aug. 22-26, 1968; minimum, 5.5°C Jan. 11-16, 1970, Jan. 20, 1976.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 157 micromhos Aug. 16; minimum recorded, 49 micromhos Mar. 29, 30.

WATER TEMPERATURES: Maximum, 30.5°C July 25, July 28 to Aug. 2; minimum, 5.5°C Jan. 20.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | TEMPER-<br>ATURE<br>(DEG C) | PH<br>(UNITS) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) | DIS-<br>SOLVED<br>SILICA<br>(SiO2)<br>(MG/L) | TOTAL<br>IRON<br>(FE)<br>(UG/L) | DIS-<br>SOLVED<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L) |
|-------|------|-----------------------------------------------|------------------------------------------------------------|-----------------------------|---------------|------------------------------------|----------------------------------------------|---------------------------------|------------------------------------------|-------------------------------------------|----------------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------|--------------------------------------------------------|--------------------------------------|
| OCT   |      |                                               |                                                            |                             |               |                                    |                                              |                                 |                                          |                                           |                                                    |                                                  |                                               |                                            |                                                        |                                      |
| 22... | 0910 | 15000                                         | 84                                                         | 18.5                        | --            | 7.2                                | --                                           | 1500                            | 210                                      | 80                                        | 20                                                 | --                                               | --                                            | --                                         | --                                                     | --                                   |
| DEC   |      |                                               |                                                            |                             |               |                                    |                                              |                                 |                                          |                                           |                                                    |                                                  |                                               |                                            |                                                        |                                      |
| 09... | 1315 | 7980                                          | --                                                         | 13.5                        | --            | --                                 | --                                           | --                              | --                                       | --                                        | 0                                                  | --                                               | --                                            | --                                         | --                                                     | --                                   |
| 10... | 0900 | 8280                                          | 126                                                        | 13.0                        | 7.0           | 7.5                                | --                                           | --                              | 320                                      | --                                        | --                                                 | --                                               | --                                            | --                                         | --                                                     | --                                   |
| 29... | 1305 | 11300                                         | 70                                                         | 8.5                         | 6.9           | 8.3                                | 13                                           | --                              | --                                       | --                                        | --                                                 | 6.0                                              | 1.0                                           | 6.2                                        | 1.8                                                    | 21                                   |
| FEB   |      |                                               |                                                            |                             |               |                                    |                                              |                                 |                                          |                                           |                                                    |                                                  |                                               |                                            |                                                        |                                      |
| 03... | 1300 | 23900                                         | 67                                                         | 9.0                         | 6.4           | 9.8                                | --                                           | 1100                            | 180                                      | 30                                        | 10                                                 | --                                               | --                                            | --                                         | --                                                     | --                                   |
| 24... | 1240 | 13700                                         | 85                                                         | 15.0                        | 6.4           | 8.4                                | 10                                           | --                              | --                                       | --                                        | --                                                 | 6.7                                              | 1.4                                           | 7.0                                        | 1.6                                                    | 24                                   |
| APR   |      |                                               |                                                            |                             |               |                                    |                                              |                                 |                                          |                                           |                                                    |                                                  |                                               |                                            |                                                        |                                      |
| 06... | 0700 | 27700                                         | --                                                         | 17.0                        | --            | --                                 | --                                           | 1900                            | 210                                      | 40                                        | 10                                                 | --                                               | --                                            | --                                         | --                                                     | --                                   |
| 06... | 1250 | 27300                                         | 66                                                         | 18.0                        | 6.3           | 7.2                                | --                                           | --                              | --                                       | --                                        | --                                                 | --                                               | --                                            | --                                         | --                                                     | --                                   |
| 27... | 1200 | 7380                                          | 80                                                         | 23.0                        | 6.4           | 7.4                                | 11                                           | --                              | --                                       | --                                        | --                                                 | 7.9                                              | 1.0                                           | 5.3                                        | 1.6                                                    | 32                                   |
| MAY   |      |                                               |                                                            |                             |               |                                    |                                              |                                 |                                          |                                           |                                                    |                                                  |                                               |                                            |                                                        |                                      |
| 18... | 1150 | 10100                                         | 107                                                        | 23.4                        | 6.3           | 6.7                                | 11                                           | --                              | --                                       | --                                        | --                                                 | 7.5                                              | 1.4                                           | 11                                         | 1.5                                                    | 32                                   |
| JUN   |      |                                               |                                                            |                             |               |                                    |                                              |                                 |                                          |                                           |                                                    |                                                  |                                               |                                            |                                                        |                                      |
| 07... | 1130 | 21000                                         | 78                                                         | 22.0                        | 6.4           | 7.5                                | 11                                           | --                              | --                                       | --                                        | --                                                 | 5.6                                              | 1.0                                           | 7.2                                        | 1.7                                                    | 22                                   |
| JUL   |      |                                               |                                                            |                             |               |                                    |                                              |                                 |                                          |                                           |                                                    |                                                  |                                               |                                            |                                                        |                                      |
| 06... | 0955 | 10900                                         | 76                                                         | 25.0                        | 6.0           | 6.0                                | --                                           | 1800                            | 310                                      | 90                                        | 20                                                 | --                                               | --                                            | --                                         | --                                                     | --                                   |
| AUG   |      |                                               |                                                            |                             |               |                                    |                                              |                                 |                                          |                                           |                                                    |                                                  |                                               |                                            |                                                        |                                      |
| 10... | 1200 | 5060                                          | 150                                                        | 28.0                        | 5.3           | 6.4                                | 11                                           | --                              | --                                       | --                                        | --                                                 | 8.6                                              | 1.5                                           | 18                                         | 1.9                                                    | 40                                   |
| 30... | 1150 | 5160                                          | 174                                                        | 28.0                        | 6.1           | 6.6                                | 14                                           | --                              | --                                       | --                                        | --                                                 | 11                                               | 1.4                                           | 17                                         | 1.9                                                    | 47                                   |

02226000 ALTAMAHA RIVER AT DOCTORTOWN, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | CAR-<br>BONATE<br>(CO3)<br>(MG/L) | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) |
|-------|-----------------------------------|------------------------------------------|----------------------------------------------|---------------------------------------------------|--------------------------------------------------|------------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------------|-------------------------------------------|
| OCT   |                                   |                                          |                                              |                                                   |                                                  |                                                      |                                                          |                                         |                                           |                                           |
| 22... | --                                | --                                       | --                                           | --                                                | --                                               | .16                                                  | .35                                                      | .51                                     | 2.3                                       | .07                                       |
| DEC   |                                   |                                          |                                              |                                                   |                                                  |                                                      |                                                          |                                         |                                           |                                           |
| 10... | --                                | --                                       | --                                           | --                                                | --                                               | .35                                                  | .30                                                      | .65                                     | 2.9                                       | .07                                       |
| 29... | 0                                 | 17                                       | 5.9                                          | 4.8                                               | .1                                               | .24                                                  | .19                                                      | .43                                     | 1.9                                       | .06                                       |
| FEB   |                                   |                                          |                                              |                                                   |                                                  |                                                      |                                                          |                                         |                                           |                                           |
| 03... | --                                | --                                       | --                                           | --                                                | --                                               | .13                                                  | --                                                       | --                                      | --                                        | .06                                       |
| 24... | 0                                 | 20                                       | 6.8                                          | 6.1                                               | .1                                               | .24                                                  | .41                                                      | .65                                     | 2.9                                       | .04                                       |
| APR   |                                   |                                          |                                              |                                                   |                                                  |                                                      |                                                          |                                         |                                           |                                           |
| 06... | --                                | --                                       | --                                           | --                                                | --                                               | .14                                                  | .16                                                      | .30                                     | 1.3                                       | .07                                       |
| 27... | 0                                 | 26                                       | 6.2                                          | 3.9                                               | .1                                               | .43                                                  | .22                                                      | .65                                     | 2.9                                       | .06                                       |
| MAY   |                                   |                                          |                                              |                                                   |                                                  |                                                      |                                                          |                                         |                                           |                                           |
| 18... | 0                                 | 26                                       | 9.8                                          | 8.3                                               | .2                                               | .38                                                  | .38                                                      | .76                                     | 3.4                                       | .06                                       |
| JUN   |                                   |                                          |                                              |                                                   |                                                  |                                                      |                                                          |                                         |                                           |                                           |
| 07... | 0                                 | 18                                       | 6.4                                          | 5.8                                               | .2                                               | .19                                                  | .40                                                      | .59                                     | 2.6                                       | .07                                       |
| JUL   |                                   |                                          |                                              |                                                   |                                                  |                                                      |                                                          |                                         |                                           |                                           |
| 06... | --                                | --                                       | --                                           | --                                                | --                                               | .26                                                  | .51                                                      | .77                                     | 3.4                                       | .11                                       |
| AUG   |                                   |                                          |                                              |                                                   |                                                  |                                                      |                                                          |                                         |                                           |                                           |
| 10... | 0                                 | 33                                       | 14                                           | 15                                                | .2                                               | .28                                                  | .42                                                      | .70                                     | 3.1                                       | .08                                       |
| 30... | 0                                 | 39                                       | 17                                           | 12                                                | .3                                               | .39                                                  | .35                                                      | .74                                     | 3.3                                       | .08                                       |

| DATE  | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | TUR-<br>BID-<br>ITY<br>(JTU) | PERI-<br>PHYTON<br>BIOMASS<br>ASH<br>WEIGHT<br>G/SQ M | PERI-<br>PHYTON<br>BIOMASS<br>TOTAL<br>DRY<br>WEIGHT<br>G/SQ M | TOTAL<br>PHYTO-<br>PLANK-<br>TON<br>(CELLS<br>PER<br>ML) | UNCOR-<br>RECTED<br>PERI-<br>PHYTON<br>CHLORO-<br>PHYLL B<br>MG/SQ M | UNCOR-<br>RECTED<br>PERI-<br>PHYTON<br>CHLORO-<br>PHYLL A<br>MG/SQ M | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|-------|------------------------------------------------------------------|------------------------------------|---------------------------------------------------|------------------------------|-------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------|
| OCT   |                                                                  |                                    |                                                   |                              |                                                       |                                                                |                                                          |                                                                      |                                                                      |                                             |
| 22... | --                                                               | --                                 | --                                                | --                           | --                                                    | --                                                             | 2800                                                     | --                                                                   | --                                                                   | 7.6                                         |
| DEC   |                                                                  |                                    |                                                   |                              |                                                       |                                                                |                                                          |                                                                      |                                                                      |                                             |
| 10... | --                                                               | --                                 | --                                                | --                           | --                                                    | --                                                             | 200                                                      | --                                                                   | --                                                                   | --                                          |
| 29... | 66                                                               | 19                                 | 2                                                 | 10                           | --                                                    | --                                                             | 690                                                      | --                                                                   | --                                                                   | --                                          |
| FEB   |                                                                  |                                    |                                                   |                              |                                                       |                                                                |                                                          |                                                                      |                                                                      |                                             |
| 03... | --                                                               | --                                 | --                                                | --                           | 17.0                                                  | 24.0                                                           | 320                                                      | 9.90                                                                 | 91.0                                                                 | 6.8                                         |
| 24... | 66                                                               | 23                                 | 3                                                 | 20                           | --                                                    | --                                                             | 680                                                      | --                                                                   | --                                                                   | --                                          |
| APR   |                                                                  |                                    |                                                   |                              |                                                       |                                                                |                                                          |                                                                      |                                                                      |                                             |
| 06... | --                                                               | --                                 | --                                                | --                           | --                                                    | --                                                             | 600                                                      | --                                                                   | --                                                                   | 5.2                                         |
| 27... | 70                                                               | 24                                 | 0                                                 | 30                           | --                                                    | --                                                             | 440                                                      | --                                                                   | --                                                                   | --                                          |
| MAY   |                                                                  |                                    |                                                   |                              |                                                       |                                                                |                                                          |                                                                      |                                                                      |                                             |
| 18... | 88                                                               | 25                                 | 0                                                 | 25                           | --                                                    | --                                                             | --                                                       | --                                                                   | --                                                                   | --                                          |
| JUN   |                                                                  |                                    |                                                   |                              |                                                       |                                                                |                                                          |                                                                      |                                                                      |                                             |
| 07... | 74                                                               | 18                                 | 0                                                 | 24                           | --                                                    | --                                                             | 1100                                                     | --                                                                   | --                                                                   | --                                          |
| JUL   |                                                                  |                                    |                                                   |                              |                                                       |                                                                |                                                          |                                                                      |                                                                      |                                             |
| 06... | --                                                               | --                                 | --                                                | --                           | 8.00                                                  | 11.3                                                           | 2800                                                     | 4.04                                                                 | 25.6                                                                 | 6.3                                         |
| AUG   |                                                                  |                                    |                                                   |                              |                                                       |                                                                |                                                          |                                                                      |                                                                      |                                             |
| 10... | 102                                                              | 28                                 | 0                                                 | 7                            | --                                                    | --                                                             | 27000                                                    | --                                                                   | --                                                                   | --                                          |
| 30... | 124                                                              | 33                                 | 0                                                 | 15                           | --                                                    | --                                                             | 5600                                                     | --                                                                   | --                                                                   | --                                          |

02226000 ALTAMAHA RIVER AT DOCTORTOWN, GA.--Continued

## WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | TOTAL<br>ARSENIC<br>(AS)<br>(UG/L) | DIS-<br>SOLVED<br>ARSENIC<br>(AS)<br>(UG/L) | TOTAL<br>CAD-<br>MIUM<br>(CD)<br>(UG/L) | DIS-<br>SOLVED<br>CAD-<br>MIUM<br>(CD)<br>(UG/L) | TOTAL<br>CHRO-<br>MIUM<br>(CR)<br>(UG/L) | DIS-<br>SOLVED<br>CHRO-<br>MIUM<br>(CR)<br>(UG/L) | TOTAL<br>COBALT<br>(CO)<br>(UG/L) | DIS-<br>SOLVED<br>COBALT<br>(CO)<br>(UG/L) | TOTAL<br>COPPER<br>(CU)<br>(UG/L) |
|--------------|------------------------------------|---------------------------------------------|-----------------------------------------|--------------------------------------------------|------------------------------------------|---------------------------------------------------|-----------------------------------|--------------------------------------------|-----------------------------------|
| OCT<br>22... | 1                                  | 0                                           | 5                                       | 0                                                | <10                                      | 0                                                 | 0                                 | 0                                          | 11                                |
| DEC<br>10... | --                                 | 0                                           | --                                      | --                                               | --                                       | --                                                | --                                | --                                         | --                                |
| FEB<br>03... | --                                 | 0                                           | 1                                       | 1                                                | 10                                       | 0                                                 | 0                                 | 0                                          | 8                                 |
| APR<br>06... | --                                 | 0                                           | 8                                       | 0                                                | <10                                      | 0                                                 | 0                                 | 0                                          | 8                                 |
| JUL<br>06... | --                                 | 0                                           | 4                                       | 0                                                | 20                                       | 0                                                 | 0                                 | 0                                          | 6                                 |

| DATE         | DIS-<br>SOLVED<br>COPPER<br>(CU)<br>(UG/L) | TOTAL<br>LEAD<br>(PB)<br>(UG/L) | DIS-<br>SOLVED<br>LEAD<br>(PB)<br>(UG/L) | TOTAL<br>MERCURY<br>(HG)<br>(UG/L) | DIS-<br>SOLVED<br>MERCURY<br>(HG)<br>(UG/L) | TOTAL<br>SELE-<br>NIUM<br>(SE)<br>(UG/L) | DIS-<br>SOLVED<br>SELE-<br>NIUM<br>(SE)<br>(UG/L) | TOTAL<br>ZINC<br>(ZN)<br>(UG/L) | DIS-<br>SOLVED<br>ZINC<br>(ZN)<br>(UG/L) |
|--------------|--------------------------------------------|---------------------------------|------------------------------------------|------------------------------------|---------------------------------------------|------------------------------------------|---------------------------------------------------|---------------------------------|------------------------------------------|
| OCT<br>22... | 3                                          | 40                              | 4                                        | .0                                 | .0                                          | --                                       | 0                                                 | 50                              | 6                                        |
| DEC<br>10... | --                                         | --                              | --                                       | --                                 | 1.0                                         | --                                       | --                                                | --                              | 0                                        |
| FEB<br>03... | 3                                          | 18                              | 18                                       | .0                                 | .0                                          | 0                                        | 0                                                 | 60                              | 10                                       |
| APR<br>06... | 8                                          | 48                              | 4                                        | .0                                 | .0                                          | 0                                        | 0                                                 | 30                              | 20                                       |
| JUL<br>06... | 3                                          | 45                              | 0                                        | .2                                 | .0                                          | 0                                        | 0                                                 | 50                              | 20                                       |

| DATE         | TOTAL<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | DIS-<br>SOLVED<br>GROSS<br>ALPHA<br>AS<br>U-NAT.<br>(UG/L) | SUS-<br>PENDED<br>GROSS<br>ALPHA<br>AS<br>U-NAT.<br>(UG/L) | DIS-<br>SOLVED<br>GROSS<br>BETA<br>AS<br>CS-137<br>(PC/L) | SUS-<br>PENDED<br>GROSS<br>BETA<br>AS<br>CS-137<br>(PC/L) | DIS-<br>SOLVED<br>GROSS<br>BETA<br>AS<br>AS SR90<br>/Y90<br>(PC/L) | SUS-<br>PENDED<br>GROSS<br>BETA<br>AS<br>AS SR90<br>/Y90<br>(PC/L) | DIS-<br>SOLVED<br>RA-226<br>(RADON<br>METHOD)<br>(PC/L) | DIS-<br>SOLVED<br>URANIUM<br>(U)<br>(UG/L) |
|--------------|----------------------------------------------|------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------|
| DEC<br>09... | 72                                           | 14                                                   | 3.8                                                        | 1.1                                                        | 4.2                                                       | .8                                                        | 3.4                                                                | .7                                                                 | .04                                                     | .01                                        |
| APR<br>06... | 57                                           | 25                                                   | 1.0                                                        | 2.4                                                        | 4.3                                                       | .9                                                        | 3.4                                                                | .8                                                                 | .07                                                     | .05                                        |

02226000 ALTAMAHA RIVER AT DOCTORTOWN, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | TOTAL<br>ALDRIN<br>(UG/L) | ALDRIN<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>CHLOR-<br>DANE<br>(UG/L) | CHLOR-<br>DANE<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>DDD<br>(UG/L) | DDD<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>DDE<br>(UG/L) | DDE<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>DDT<br>(UG/L) | DDT<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>DI-<br>AZINON<br>(UG/L) |
|--------------|---------------------------|----------------------------------------------------|-----------------------------------|------------------------------------------------------------|------------------------|-------------------------------------------------|------------------------|-------------------------------------------------|------------------------|-------------------------------------------------|----------------------------------|
| OCT<br>22... | ND                        | ND                                                 | ND                                | ND                                                         | ND                     | ND                                              | ND                     | ND                                              | ND                     | ND                                              | ND                               |
| MAY<br>18... | ND                        | ND                                                 | ND                                | ND                                                         | ND                     | ND                                              | ND                     | ND                                              | ND                     | ND                                              | ND                               |
| AUG<br>10... | ND                        | --                                                 | ND                                | --                                                         | ND                     | --                                              | ND                     | --                                              | ND                     | --                                              | ND                               |

| DATE         | DI-<br>AZINON<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>DI-<br>ELDRIN<br>(UG/L) | DI-<br>ELDRIN<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>ENDRIN<br>(UG/L) | ENDRIN<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>ETHION<br>(UG/L) | ETHION<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>HEPTA-<br>CHLOR<br>(UG/L) | HEPTA-<br>CHLOR<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>HEPTA-<br>CHLOR<br>EPOXIDE<br>(UG/L) | HEPTA-<br>CHLOR<br>EPOXIDE<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) |
|--------------|-----------------------------------------------------------|----------------------------------|-----------------------------------------------------------|---------------------------|----------------------------------------------------|---------------------------|----------------------------------------------------|------------------------------------|-------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------|
| OCT<br>22... | ND                                                        | ND                               | ND                                                        | ND                        | ND                                                 | ND                        | ND                                                 | ND                                 | ND                                                          | ND                                            | ND                                                                    |
| MAY<br>18... | ND                                                        | ND                               | ND                                                        | ND                        | ND                                                 | ND                        | ND                                                 | ND                                 | ND                                                          | ND                                            | ND                                                                    |
| AUG<br>10... | --                                                        | ND                               | --                                                        | ND                        | --                                                 | ND                        | --                                                 | ND                                 | --                                                          | ND                                            | --                                                                    |

| DATE         | TOTAL<br>LINDANE<br>(UG/L) | LINDANE<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>MALA-<br>THION<br>(UG/L) | MALA-<br>THION<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>METH-<br>OXY-<br>CHLOR<br>(UG/L) | METHOX-<br>YCHLOR<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>METHYL<br>PARA-<br>THION<br>(UG/L) | METHYL<br>PARA-<br>THION<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>METHYL<br>TRI-<br>THION<br>(UG/L) | METHYL<br>TRI-<br>THION<br>IN BOT-<br>TOM MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>PARA-<br>THION<br>(UG/L) |
|--------------|----------------------------|-----------------------------------------------------|-----------------------------------|------------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------|---------------------------------------------|---------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------|-----------------------------------|
| OCT<br>22... | ND                         | ND                                                  | ND                                | ND                                                         | ND                                        | ND                                                           | ND                                          | ND                                                                  | ND                                         | ND                                                                 | ND                                |
| MAY<br>18... | ND                         | ND                                                  | ND                                | ND                                                         | ND                                        | ND                                                           | ND                                          | ND                                                                  | ND                                         | ND                                                                 | ND                                |
| AUG<br>10... | ND                         | --                                                  | ND                                | --                                                         | ND                                        | --                                                           | ND                                          | --                                                                  | ND                                         | --                                                                 | ND                                |

| DATE         | PARA-<br>THION<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>TOX-<br>APHENE<br>(UG/L) | TOX-<br>APHENE<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>TRI-<br>THION<br>(UG/L) | TRI-<br>THION<br>IN<br>BOTTOM<br>MA-<br>TERIAL<br>(UG/KG) | TOTAL<br>2,4-D<br>(UG/L) | TOTAL<br>2,4,5-T<br>(UG/L) | TOTAL<br>SILVEX<br>(UG/L) | TOTAL<br>ATRA-<br>ZINE<br>(UG/L) | ATRA-<br>ZINE IN<br>BOTTOM<br>MATERI-<br>AL (UG/<br>KG DRY<br>SOLIDS) | SIMA-<br>ZINE IN<br>BOTTOM<br>MATERI-<br>AL (UG/<br>KG DRY<br>SOLIDS) |
|--------------|------------------------------------------------------------|-----------------------------------|------------------------------------------------------------|----------------------------------|-----------------------------------------------------------|--------------------------|----------------------------|---------------------------|----------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| OCT<br>22... | ND                                                         | ND                                | ND                                                         | ND                               | ND                                                        | --                       | --                         | --                        | --                               | --                                                                    | --                                                                    |
| MAY<br>18... | ND                                                         | ND                                | ND                                                         | ND                               | ND                                                        | ND                       | ND                         | ND                        | ND                               | ND                                                                    | ND                                                                    |
| AUG<br>10... | --                                                         | ND                                | --                                                         | ND                               | --                                                        | ND                       | ND                         | ND                        | ND                               | --                                                                    | --                                                                    |

ND Not detected.

## ALTAMAHA RIVER BASIN

02226000 ALTAMAHA RIVER AT DOCTORTOWN, GA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH     |     |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-----------|-----|
|       | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | ---     | --- | 103      | 82  |          |     |         |     | ---      | --- | 92        | 82  |
| 2     | ---     | --- | 105      | 91  |          |     |         |     | ---      | --- | 95        | 89  |
| 3     | ---     | --- | 101      | 81  |          |     |         |     | ---      | --- | 93        | 87  |
| 4     | ---     | --- | 100      | 82  |          |     |         |     | ---      | --- | 89        | 86  |
| 5     | ---     | --- | 104      | 89  |          |     |         |     | ---      | --- | 89        | 77  |
| 6     | 79      | 75  | 100      | 94  |          |     |         |     | ---      | --- | 85        | 78  |
| 7     | 78      | 75  | 110      | 99  |          |     |         |     | ---      | --- | 91        | 84  |
| 8     | 85      | 77  | 112      | 109 |          |     |         |     | ---      | --- | 89        | 86  |
| 9     | 83      | 78  | 109      | 104 |          |     |         |     | ---      | --- | 95        | 87  |
| 10    | 84      | 75  | 103      | 95  |          |     |         |     | ---      | --- | 91        | 83  |
| 11    | 76      | 68  | ---      | --- |          |     |         |     | ---      | --- | 87        | 83  |
| 12    | 71      | 67  | ---      | --- |          |     |         |     | ---      | --- | 92        | 88  |
| 13    | 73      | 69  | ---      | --- |          |     |         |     | ---      | --- | 101       | 91  |
| 14    | 75      | 72  | ---      | --- |          |     |         |     | ---      | --- | 96        | 88  |
| 15    | 78      | 73  | ---      | --- |          |     |         |     | ---      | --- | 89        | 86  |
| 16    | 77      | 72  | ---      | --- |          |     |         |     | ---      | --- | 92        | 85  |
| 17    | 76      | 72  | ---      | --- |          |     |         |     | ---      | --- | 89        | 77  |
| 18    | 81      | 74  | ---      | --- |          |     |         |     | 78       | 71  | 76        | 71  |
| 19    | 80      | 75  | ---      | --- |          |     |         |     | 81       | 75  | 70        | 66  |
| 20    | 80      | 75  | ---      | --- |          |     |         |     | 80       | 76  | 68        | 65  |
| 21    | ---     | --- | ---      | --- |          |     |         |     | 86       | 80  | 69        | 65  |
| 22    | ---     | --- | ---      | --- |          |     |         |     | 86       | 83  | 67        | 64  |
| 23    | 84      | 79  | ---      | --- |          |     |         |     | 86       | 81  | 67        | 64  |
| 24    | 84      | 79  | ---      | --- |          |     |         |     | 87       | 80  | 65        | 63  |
| 25    | 85      | 82  | ---      | --- |          |     |         |     | 84       | 78  | 64        | 61  |
| 26    | 86      | 83  | ---      | --- |          |     |         |     | 81       | 77  | 61        | 56  |
| 27    | 88      | 70  | ---      | --- |          |     |         |     | 83       | 80  | 57        | 53  |
| 28    | 89      | 84  | ---      | --- |          |     |         |     | 84       | 82  | 55        | 51  |
| 29    | 91      | 81  | ---      | --- |          |     |         |     | 83       | 81  | 52        | 49  |
| 30    | 92      | 81  | ---      | --- |          |     |         |     | ---      | --- | 55        | 49  |
| 31    | 89      | 77  | ---      | --- |          |     |         |     | ---      | --- | 56        | 50  |
| MONTH | ---     | --- | ---      | --- |          |     |         |     | ---      | --- | 101       | 49  |
| DAY   | APRIL   |     | MAY      |     | JUNE     |     | JULY    |     | AUGUST   |     | SEPTEMBER |     |
|       | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | 59      | 56  | ---      | --- | 74       | 69  | ---     | --- | 102      | 89  | 127       | 117 |
| 2     | 60      | 54  | ---      | --- | 79       | 71  | ---     | --- | 102      | 97  | 124       | 114 |
| 3     | 56      | 52  | ---      | --- | 83       | 76  | ---     | --- | 98       | 85  | 127       | 119 |
| 4     | 67      | 56  | ---      | --- | 81       | 76  | ---     | --- | 91       | 85  | 137       | 114 |
| 5     | 67      | 62  | 110      | 102 | 81       | 74  | ---     | --- | 91       | 86  | 119       | 113 |
| 6     | 70      | 53  | 103      | 98  | 87       | 80  | ---     | --- | 114      | 90  | 121       | 114 |
| 7     | 58      | 54  | 109      | 102 | 86       | 77  | ---     | --- | 123      | 109 | 120       | 114 |
| 8     | 59      | 57  | 113      | 100 | 92       | 76  | ---     | --- | 115      | 100 | 118       | 114 |
| 9     | 61      | 59  | 108      | 101 | 90       | 82  | ---     | --- | 110      | 99  | 118       | 115 |
| 10    | 70      | 62  | 108      | 101 | 86       | 76  | ---     | --- | 106      | 96  | 121       | 116 |
| 11    | 72      | 67  | 110      | 105 | ---      | --- | ---     | --- | 112      | 99  | 128       | 120 |
| 12    | 72      | 66  | 115      | 110 | ---      | --- | ---     | --- | 120      | 104 | 128       | 123 |
| 13    | 72      | 70  | 122      | 111 | ---      | --- | ---     | --- | 123      | 103 | 127       | 121 |
| 14    | 76      | 71  | 125      | 119 | ---      | --- | ---     | --- | 137      | 113 | 121       | 118 |
| 15    | 81      | 75  | 128      | 122 | ---      | --- | ---     | --- | 153      | 130 | 119       | 119 |
| 16    | 84      | 80  | 128      | 116 | ---      | --- | ---     | --- | 157      | 139 | 123       | 120 |
| 17    | 89      | 82  | 121      | 114 | ---      | --- | ---     | --- | 149      | 130 | 122       | 117 |
| 18    | 88      | 84  | 115      | 99  | ---      | --- | ---     | --- | 152      | 135 | 138       | 117 |
| 19    | 88      | 63  | 99       | 90  | ---      | --- | ---     | --- | 148      | 139 | 150       | 134 |
| 20    | 77      | 56  | 95       | 83  | ---      | --- | ---     | --- | 156      | 137 | 154       | 140 |
| 21    | 71      | 51  | 93       | 85  | ---      | --- | 91      | 82  | 149      | 133 | 150       | 144 |
| 22    | 69      | 51  | 86       | 84  | ---      | --- | 94      | 84  | 134      | 121 | 149       | 136 |
| 23    | 85      | 70  | 84       | 73  | ---      | --- | 102     | 90  | 132      | 120 | 144       | 131 |
| 24    | 90      | 81  | 76       | 70  | ---      | --- | 100     | 91  | 130      | 116 | 135       | 127 |
| 25    | 91      | 83  | 70       | 65  | ---      | --- | 105     | 91  | 122      | 114 | 125       | 116 |
| 26    | 82      | 72  | 67       | 60  | ---      | --- | 99      | 85  | 118      | 114 | 120       | 107 |
| 27    | 75      | 73  | 62       | 58  | ---      | --- | 91      | 83  | 123      | 113 | 122       | 108 |
| 28    | 88      | 75  | 65       | 57  | ---      | --- | 100     | 90  | 123      | 114 | 115       | 105 |
| 29    | 89      | 81  | 66       | 62  | ---      | --- | 101     | 95  | 136      | 117 | 103       | 99  |
| 30    | 89      | 80  | 68       | 59  | ---      | --- | 101     | 94  | 133      | 127 | 102       | 90  |
| 31    | ---     | --- | 70       | 63  | ---      | --- | 94      | 88  | 128      | 121 | ---       | --- |
| MONTH | 91      | 51  | 128      | 57  | ---      | --- | ---     | --- | 157      | 85  | 154       | 90  |



02226000 ALTAMAHA RIVER AT DOCTORTOWN, GA.--Continued

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

## ALTAMAHA RIVER BASIN

02226010 ALTAMAHA RIVER NEAR GARDI, GA.

LOCATION.--Lat 31°37'24", long 81°45'55", Wayne County, 6 mi (10 km) northeast of Gardi, 7 mi (11 km) downstream from Doctor-town, and 9 mi (14 km) upstream from Penholoway Creek.

DRAINAGE AREA.--13,600 mi<sup>2</sup> (35,200 km<sup>2</sup>), 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                               |               |                             |                                    |
| 22... | 0830 | 14900                                         | 7.0           | 19.0                        | 8.1                                |
| DEC.  |      |                                               |               |                             |                                    |
| 10... | 0825 | 8740                                          | 7.2           | 13.0                        | 8.0                                |
| FEB.  |      |                                               |               |                             |                                    |
| 03... | 1225 | 23600                                         | 6.1           | 10.0                        | 9.7                                |
| 24... | 1200 | 13700                                         | 6.9           | 14.5                        | 8.4                                |
| APR.  |      |                                               |               |                             |                                    |
| 06... | 1250 | 27700                                         | 6.8           | 18.0                        | 7.2                                |
| 27... | 1200 | 7440                                          | 7.1           | 23.0                        | 7.4                                |
| MAY   |      |                                               |               |                             |                                    |
| 18... | 1150 | 9790                                          | 7.0           | 23.8                        | 6.7                                |
| JUNE  |      |                                               |               |                             |                                    |
| 07... | 1130 | 21200                                         | 6.9           | 22.0                        | 7.5                                |
| JULY  |      |                                               |               |                             |                                    |
| 06... | 0955 | --                                            | 6.7           | 25.0                        | 6.0                                |
| AUG.  |      |                                               |               |                             |                                    |
| 10... | 1200 | --                                            | 7.4           | 28.0                        | 6.4                                |
| 30... | 1150 | 5120                                          | 6.1           | 28.0                        | 6.6                                |

| DATE  | ALKA-<br>LITY<br>AS<br>CAC03<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) |
|-------|----------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|------------------------------------|
| OCT.  |                                        |                                                      |                                                    |                                           |                                                      |                                    |
| 22... | 22                                     | .14                                                  | <.02                                               | <.02                                      | 5                                                    | 20                                 |
| DEC.  |                                        |                                                      |                                                    |                                           |                                                      |                                    |
| 10... | 30                                     | .33                                                  | .27                                                | .07                                       | 14                                                   | 27                                 |
| FEB.  |                                        |                                                      |                                                    |                                           |                                                      |                                    |
| 03... | 14                                     | .13                                                  | .03                                                | .05                                       | --                                                   | 17                                 |
| 24... | 22                                     | .24                                                  | <.02                                               | .06                                       | 13                                                   | 22                                 |
| APR.  |                                        |                                                      |                                                    |                                           |                                                      |                                    |
| 06... | 18                                     | .15                                                  | <.02                                               | .07                                       | 7                                                    | 17                                 |
| 27... | 24                                     | .40                                                  | <.02                                               | .07                                       | 25                                                   | 25                                 |
| MAY   |                                        |                                                      |                                                    |                                           |                                                      |                                    |
| 18... | 26                                     | .37                                                  | <.02                                               | .09                                       | 32                                                   | 24                                 |
| JUNE  |                                        |                                                      |                                                    |                                           |                                                      |                                    |
| 07... | 20                                     | .19                                                  | <.02                                               | .07                                       | 11                                                   | 19                                 |
| JULY  |                                        |                                                      |                                                    |                                           |                                                      |                                    |
| 06... | 19                                     | .27                                                  | .02                                                | .07                                       | 19                                                   | 20                                 |
| AUG.  |                                        |                                                      |                                                    |                                           |                                                      |                                    |
| 10... | 31                                     | .29                                                  | .03                                                | .10                                       | 14                                                   | 28                                 |
| 30... | 34                                     | .38                                                  | .05                                                | .08                                       | --                                                   | 24                                 |

02226010 ALTAMAHA RIVER NEAR GARDI, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPECIFIC<br>CONDUCTANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>CORALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | TANNIN<br>AND<br>LIGNIN<br>(MG/L) |
|---------------|---------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|-----------------------------------|
| OCT.<br>22... | 86                                          | 60                                           | 20                           | 1.0                                                          | 430                                              | 8.0                                         | 1.2                               |
| DEC.<br>10... | 122                                         | 40                                           | 13                           | 1.1                                                          | 73                                               | 36                                          | 1.1                               |
| FEB.<br>03... | 72                                          | 80                                           | 18                           | 1.2                                                          | 91                                               | 9.0                                         | 1.5                               |
| 24...         | 91                                          | 80                                           | 20                           | .8                                                           | 91                                               | 6.0                                         | 1.0                               |
| APR.<br>06... | 69                                          | 120                                          | 35                           | .7                                                           | 73                                               | 10                                          | 1.2                               |
| 27...         | 83                                          | 40                                           | 26                           | .7                                                           | <30                                              | 4.0                                         | .4                                |
| MAY<br>18...  | 108                                         | 80                                           | 28                           | .9                                                           | 430                                              | 8.0                                         | 1.8                               |
| JUNE<br>07... | 75                                          | 100                                          | 25                           | .8                                                           | 110                                              | 8.0                                         | 1.3                               |
| JULY<br>06... | 72                                          | 100                                          | 20                           | .7                                                           | 36                                               | 10                                          | 1.3                               |
| AUG.<br>10... | 148                                         | 60                                           | 15                           | --                                                           | --                                               | 9.0                                         | 1.9                               |
| 30...         | 158                                         | 30                                           | 12                           | .8                                                           | 36                                               | 19                                          | --                                |

02226100 PENHOLWAY CREEK NEAR JESUP, GA.

LOCATION.--Lat 31°34'00", long 81°50'18", Wayne County, on downstream side of bridge on U.S. Highway 341, 4 mi (6.4 km) south-east of Jesup, and about 9.5 mi (15.3 km) upstream from mouth.

DRAINAGE AREA.--210 mi<sup>2</sup> (540 km<sup>2</sup>), 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 ft<sup>3</sup>/s (0.28 m<sup>3</sup>/s), which are poor.

AVERAGE DISCHARGE.--18 years, 209 ft<sup>3</sup>/s (5.92 m<sup>3</sup>/s), 13.52 in/yr (343.4 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,300 ft<sup>3</sup>/s (122 m<sup>3</sup>/s) Apr. 17, 1961, gage height, 14.8 ft (4.51 m); no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,240 ft<sup>3</sup>/s (35.1 m<sup>3</sup>/s) June 22, gage height, 11.48 ft (3.499 m); minimum daily, 0.04 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) Apr. 29.

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

| DAY         | OCT    | NOV      | DEC      | JAN      | FEB     | MAR      | APR      | MAY    | JUN   | JUL  | AUG   | SEP   |
|-------------|--------|----------|----------|----------|---------|----------|----------|--------|-------|------|-------|-------|
| 1           | 95     | 2.1      | .71      | 75       | 212     | 18       | 81       | 38     | 397   | 226  | 46    | 50    |
| 2           | 91     | 1.6      | .83      | 80       | 221     | 14       | 72       | 38     | 324   | 146  | 27    | 60    |
| 3           | 40     | 1.1      | .83      | 86       | 205     | 11       | 56       | 32     | 287   | 110  | 96    | 61    |
| 4           | 80     | .84      | .66      | 96       | 195     | 9.5      | 38       | 29     | 337   | 92   | 666   | 75    |
| 5           | 80     | .69      | .54      | 90       | 186     | 8.6      | 23       | 21     | 460   | 92   | 1130  | 77    |
| 6           | 70     | .72      | .72      | 82       | 164     | 7.7      | 16       | 12     | 428   | 91   | 1030  | 85    |
| 7           | 60     | 1.0      | 1.3      | 80       | 133     | 6.5      | 19       | 6.9    | 364   | 119  | 844   | 115   |
| 8           | 60     | 1.1      | 1.6      | 94       | 107     | 5.2      | 13       | 6.4    | 311   | 154  | 690   | 192   |
| 9           | 60     | 1.4      | 4.7      | 99       | 88      | 6.6      | 9.1      | 26     | 235   | 144  | 558   | 281   |
| 10          | 50     | 1.2      | 16       | 103      | 75      | 8.1      | 8.6      | 32     | 161   | 127  | 563   | 324   |
| 11          | 50     | 1.1      | 14       | 110      | 63      | 7.5      | 7.2      | 23     | 111   | 123  | 703   | 328   |
| 12          | 52     | 1.1      | 18       | 110      | 56      | 8.0      | 5.3      | 27     | 88    | 94   | 693   | 346   |
| 13          | 48     | 2.8      | 20       | 100      | 49      | 8.5      | 3.7      | 29     | 66    | 73   | 754   | 354   |
| 14          | 44     | 6.2      | 16       | 89       | 44      | 8.0      | 2.1      | 24     | 50    | 61   | 1060  | 444   |
| 15          | 40     | 16       | 12       | 79       | 38      | 10       | 4.1      | 37     | 36    | 49   | 1150  | 867   |
| 16          | 36     | 28       | 10       | 70       | 35      | 21       | 1.7      | 41     | 32    | 40   | 936   | 1070  |
| 17          | 38     | 29       | 12       | 65       | 32      | 38       | .73      | 213    | 63    | 32   | 781   | 1050  |
| 18          | 44     | 18       | 41       | 58       | 28      | 42       | .60      | 231    | 168   | 39   | 689   | 985   |
| 19          | 40     | 10       | 41       | 53       | 25      | 44       | .36      | 175    | 223   | 38   | 592   | 870   |
| 20          | 36     | 6.2      | 44       | 50       | 21      | 41       | .21      | 126    | 564   | 29   | 527   | 706   |
| 21          | 29     | 5.3      | 47       | 45       | 18      | 32       | .18      | 86     | 894   | 24   | 462   | 547   |
| 22          | 22     | 4.4      | 43       | 41       | 39      | 25       | .12      | 59     | 1120  | 28   | 388   | 445   |
| 23          | 16     | 3.0      | 33       | 39       | 60      | 23       | .11      | 122    | 1180  | 31   | 317   | 376   |
| 24          | 11     | 2.2      | 24       | 35       | 61      | 19       | .06      | 401    | 1020  | 28   | 228   | 330   |
| 25          | 8.7    | 1.6      | 19       | 32       | 59      | 17       | .06      | 640    | 954   | 41   | 169   | 299   |
| 26          | 7.0    | 1.4      | 37       | 32       | 52      | 16       | .08      | 1010   | 832   | 57   | 130   | 284   |
| 27          | 5.5    | 1.4      | 48       | 79       | 41      | 20       | .07      | 1060   | 628   | 66   | 104   | 247   |
| 28          | 4.4    | 1.2      | 51       | 151      | 30      | 36       | .06      | 959    | 582   | 52   | 81    | 211   |
| 29          | 3.9    | 1.1      | 54       | 197      | 23      | 54       | .04      | 833    | 474   | 39   | 68    | 199   |
| 30          | 3.3    | 1.1      | 57       | 211      | ---     | 68       | 1.3      | 661    | 349   | 28   | 58    | 186   |
| 31          | 2.6    | ---      | 63       | 220      | ---     | 79       | ---      | 502    | ---   | 43   | 56    | ---   |
| TOTAL       | 1267.4 | 152.85   | 731.89   | 2751     | 2360    | 712.2    | 363.78   | 7540.3 | 12738 | 2316 | 15596 | 11464 |
| MFAN        | 40.9   | 5.10     | 23.6     | 88.7     | 81.4    | 23.0     | 12.1     | 243    | 425   | 74.7 | 503   | 382   |
| MAX         | 95     | 29       | 63       | 220      | 221     | 79       | 81       | 1060   | 1180  | 226  | 1150  | 1070  |
| MIN         | 2.6    | .69      | .54      | 32       | 18      | 5.2      | .04      | 6.4    | 32    | 24   | 27    | 50    |
| CFSM        | .19    | .02      | .11      | .42      | .39     | .11      | .06      | 1.16   | 2.02  | .36  | 2.40  | 1.82  |
| IN.         | .22    | .03      | .13      | .49      | .42     | .13      | .06      | 1.34   | 2.26  | .41  | 2.76  | 2.03  |
| CAL YR 1975 | TOTAL  | 59131.44 | MEAN 162 | MAX 1740 | MIN .54 | CFSM .77 | IN 10.47 |        |       |      |       |       |
| WTR YR 1976 | TOTAL  | 57993.42 | MEAN 158 | MAX 1180 | MIN .04 | CFSM .75 | IN 10.27 |        |       |      |       |       |

02226100 PENHOLWAY CREEK NEAR JESUP, GA.--Continued

## WATER-QUALITY RECORDS

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|-----------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| APR.<br>06... | 1030 | 13                                            | 55                                                         | 4.3           | 18.0                        | 2.8                                |
| JUNE<br>07... | 1300 | 376                                           | 58                                                         | 4.3           | 20.0                        | 6.7                                |

| DATE          | DIS-<br>SOLVED<br>SILICA<br>(SIO2)<br>(MG/L) | DIS-<br>SOLVED<br>ALUM-<br>INUM<br>(AL)<br>(UG/L) | DIS-<br>SOLVED<br>IRON<br>(FE)<br>(UG/L) | DIS-<br>SOLVED<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L) | CAR-<br>BONATE<br>(CO3)<br>(MG/L) | ALKA-<br>LITY<br>AS<br>CAC03<br>(MG/L) |
|---------------|----------------------------------------------|---------------------------------------------------|------------------------------------------|----------------------------------------------------|--------------------------------------------------|---------------------------------------------------------|--------------------------------------------|--------------------------------------------------------|--------------------------------------|-----------------------------------|----------------------------------------|
| APR.<br>06... | 4.0                                          | 480                                               | 650                                      | 0                                                  | 1.5                                              | .6                                                      | 4.7                                        | .3                                                     | 0                                    | 0                                 | 0                                      |
| JUNE<br>07... | 6.8                                          | 730                                               | 1500                                     | 20                                                 | 1.6                                              | .4                                                      | 4.1                                        | .1                                                     | 0                                    | 0                                 | 0                                      |

| DATE          | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRATE<br>(NO3)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>(NO2)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|---------------|----------------------------------------------|---------------------------------------------------|--------------------------------------------------|--------------------------------------------|----------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------|
| APR.<br>06... | 5.7                                          | 9.1                                               | .3                                               | .00                                        | .00                                          | .00                                        | .00                                          | .00                                                  | .00                                                           | .03                                                | .04                                                         |
| JUNE<br>07... | 11                                           | 7.9                                               | .4                                               | .00                                        | .00                                          | .01                                        | .03                                          | .00                                                  | .01                                                           | .00                                                | .01                                                         |

| DATE          | DIS-<br>SOLVED<br>AMMONIA<br>(NH4)<br>(MG/L) | TOTAL<br>ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOL-<br>VED-<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>ORTHO<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO<br>PHOS-<br>PHATE<br>(P04)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO.<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) |
|---------------|----------------------------------------------|----------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------|
| APR.<br>06... | .05                                          | .76                                                | .79                                                      | .79                                     | 3.5                                       | .02                                       | .05                                                      | .01                                                | .03                                                          | .01                                                          | 67                                                               |
| JUNE<br>07... | .01                                          | .99                                                | .99                                                      | .99                                     | 4.4                                       | .01                                       | .01                                                      | .00                                                | .00                                                          | .00                                                          | 124                                                              |

| DATE          | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | DIS-<br>SOLVED<br>ARSENIC<br>(AS)<br>(UG/L) | DIS-<br>SOLVED<br>CAD-<br>MIUM<br>(CD)<br>(UG/L) | DIS-<br>SOLVED<br>CHRO-<br>MIUM<br>(CR)<br>(UG/L) | DIS-<br>SOLVED<br>COPPER<br>(CU)<br>(UG/L) | DIS-<br>SOLVED<br>LEAD<br>(PB)<br>(UG/L) | DIS-<br>SOLVED<br>MERCURY<br>(HG)<br>(UG/L) | DIS-<br>SOLVED<br>SELE-<br>NIUM<br>(SE)<br>(UG/L) | DIS-<br>SOLVED<br>ZINC<br>(ZN)<br>(UG/L) |
|---------------|------------------------------------|---------------------------------------------------|----------------------------------------------|---------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------|------------------------------------------|---------------------------------------------|---------------------------------------------------|------------------------------------------|
| APR.<br>06... | 6                                  | 6                                                 | 220                                          | 0                                           | 1                                                | 0                                                 | 8                                          | 8                                        | .2                                          | 0                                                 | 10                                       |
| JUNE<br>07... | 6                                  | 6                                                 | 300                                          | 0                                           | 0                                                | 4                                                 | 9                                          | 4                                        | .0                                          | 0                                                 | 20                                       |

## ALTAMAHA RIVER BASIN

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.

LOCATION.--Lat 31°25'37", long 81°36'20", Glynn County, 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 mi<sup>2</sup> (36,300 km<sup>2</sup>), 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.<br>07... | 1345 | 11500                                         | 6.6           | 22.3                        | 6.7                                |
| NOV.<br>04... | 1530 | 9580                                          | 6.6           | 19.5                        | 7.3                                |
| DEC.<br>03... | 1600 | 6940                                          | 6.9           | 13.7                        | 9.0                                |
| JAN.<br>07... | 0830 | 16300                                         | 6.6           | 8.3                         | 10.0                               |
| FEB.<br>04... | 1100 | 23900                                         | 6.4           | 10.2                        | 10.0                               |
| MAR.<br>03... | 1000 | 13200                                         | 6.8           | 17.8                        | 9.0                                |
| APR.<br>14... | 0815 | 17900                                         | 6.6           | 18.0                        | 7.6                                |
| MAY<br>11...  | 1000 | 9820                                          | 7.0           | 21.3                        | 7.3                                |
| JUNE<br>08... | 0830 | 21200                                         | 6.5           | 22.0                        | 6.6                                |
| JULY<br>07... | 0830 | 10900                                         | 6.7           | 25.0                        | 6.0                                |
| SEP.<br>01... | 0900 | 5440                                          | 6.8           | 27.0                        | 6.1                                |

| DATE          | ALKA-<br>LITY<br>AS<br>CACO3<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) |
|---------------|----------------------------------------|---------------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|
| OCT.<br>07... | 27                                     | 8.8                                               | .20                                                  | .04                                                | .11                                       | 22                                  |
| NOV.<br>04... | 29                                     | 8.2                                               | .19                                                  | <.02                                               | .07                                       | 25                                  |
| DEC.<br>03... | 31                                     | 10                                                | .05                                                  | .05                                                | .07                                       | 26                                  |
| JAN.<br>07... | 16                                     | 5.0                                               | .15                                                  | <.02                                               | .06                                       | 19                                  |
| FEB.<br>04... | 14                                     | 8.5                                               | .09                                                  | <.02                                               | .04                                       | 17                                  |
| MAR.<br>03... | 24                                     | 8.3                                               | .16                                                  | .07                                                | .06                                       | 22                                  |
| APR.<br>14... | 21                                     | 4.0                                               | .19                                                  | .03                                                | .07                                       | 20                                  |
| MAY<br>11...  | 23                                     | 8.0                                               | .30                                                  | .03                                                | .06                                       | --                                  |
| JUNE<br>08... | 19                                     | 6.3                                               | .09                                                  | .02                                                | .07                                       | 18                                  |
| JULY<br>07... | 19                                     | 6.0                                               | .19                                                  | <.02                                               | .10                                       | 22                                  |
| SEP.<br>01... | 32                                     | 14                                                | .32                                                  | .04                                                | .07                                       | 30                                  |



02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | RIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>07... | 98                                                         | 60                                           | 22                           | .4                                                           | 36                                               | 10                                          |
| NOV.<br>04... | 99                                                         | 50                                           | 17                           | .8                                                           | 36                                               | 7.0                                         |
| DEC.<br>03... | 117                                                        | 40                                           | 16                           | .9                                                           | 91                                               | 6.0                                         |
| JAN.<br>07... | 62                                                         | 60                                           | 20                           | .6                                                           | 150                                              | 4.0                                         |
| FEB.<br>04... | 66                                                         | 100                                          | 16                           | .7                                                           | 36                                               | 10                                          |
| MAR.<br>03... | 92                                                         | 50                                           | 18                           | .6                                                           | 36                                               | 8.0                                         |
| APR.<br>14... | 63                                                         | 110                                          | 38                           | .7                                                           | 230                                              | 6.0                                         |
| MAY<br>11...  | 106                                                        | 60                                           | 23                           | .6                                                           | 73                                               | 21                                          |
| JUNE<br>08... | 71                                                         | 120                                          | 21                           | .7                                                           | 73                                               | 49                                          |
| JULY<br>07... | 71                                                         | 60                                           | 21                           | .9                                                           | 230                                              | 11                                          |
| SEP.<br>01... | 135                                                        | 60                                           | 14                           | .5                                                           | 91                                               | 10                                          |

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.--Continued

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

|       | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH     |     |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-----------|-----|
| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | ---     | --- | ---      | --- | 116      | 111 | 82      | 66  | 82       | 70  | 92        | 83  |
| 2     | 100     | 95  | ---      | --- | 125      | 113 | 76      | 65  | 84       | 72  | 92        | 83  |
| 3     | 102     | 99  | ---      | --- | 131      | 116 | 71      | 61  | 84       | 73  | 94        | 84  |
| 4     | 102     | 98  | 106      | 99  | 133      | 120 | 70      | 63  | 78       | 67  | 95        | 87  |
| 5     | 103     | 96  | 113      | 101 | 132      | 121 | 73      | 62  | 78       | 65  | 94        | 86  |
| 6     | 103     | 98  | 115      | 109 | 126      | 121 | 69      | 60  | 74       | 67  | 94        | 85  |
| 7     | 102     | 96  | 120      | 112 | 126      | 117 | 65      | 55  | 75       | 68  | 92        | 85  |
| 8     | 103     | 96  | 129      | 120 | 123      | 116 | 65      | 56  | 78       | 68  | 96        | 89  |
| 9     | 104     | 97  | 133      | 127 | 120      | 115 | 69      | 60  | 76       | 64  | 96        | 91  |
| 10    | 107     | 99  | 134      | 128 | 122      | 117 | 66      | 63  | 76       | 61  | 102       | 96  |
| 11    | 109     | 98  | 130      | 121 | 123      | 110 | 62      | 53  | 73       | 60  | 105       | 94  |
| 12    | 104     | 88  | 122      | 117 | 115      | 106 | 59      | 49  | 72       | 61  | 104       | 94  |
| 13    | 96      | 83  | 125      | 119 | 110      | 100 | 60      | 47  | 73       | 61  | 102       | 98  |
| 14    | 91      | 81  | 131      | 124 | 108      | 98  | 58      | 48  | 75       | 63  | 110       | 102 |
| 15    | 91      | 81  | 133      | 114 | 105      | 96  | 60      | 51  | 73       | 67  | 111       | 102 |
| 16    | 92      | 82  | 129      | 109 | 101      | 87  | 60      | 52  | 77       | 67  | 108       | 101 |
| 17    | 88      | 84  | 125      | 110 | 102      | 96  | 70      | 60  | 79       | 67  | 112       | 102 |
| 18    | 92      | 84  | 119      | 106 | 110      | 100 | 74      | 64  | 81       | 73  | 111       | 96  |
| 19    | 92      | 83  | 113      | 100 | 111      | 98  | 74      | 60  | 85       | 73  | 104       | 91  |
| 20    | 94      | 84  | 108      | 92  | 109      | 97  | 68      | 54  | 88       | 79  | ---       | --- |
| 21    | 95      | 80  | 106      | 95  | 109      | 99  | 70      | 60  | ---      | --- | ---       | --- |
| 22    | 92      | 82  | 108      | 100 | 102      | 98  | ---     | --- | ---      | --- | ---       | --- |
| 23    | 92      | 83  | 106      | 97  | 106      | 95  | ---     | --- | ---      | --- | ---       | --- |
| 24    | 91      | 84  | 108      | 100 | 102      | 94  | ---     | --- | 94       | 87  | 85        | 76  |
| 25    | 88      | 86  | 111      | 103 | 106      | 90  | ---     | --- | 95       | 85  | 84        | 75  |
| 26    | ---     | --- | 108      | 96  | 91       | 79  | 82      | 74  | 94       | 83  | 82        | 72  |
| 27    | ---     | --- | 107      | 100 | 92       | 79  | 89      | 80  | 94       | 81  | 78        | 71  |
| 28    | ---     | --- | 111      | 98  | 87       | 78  | 92      | 83  | 94       | 82  | 75        | 65  |
| 29    | ---     | --- | 112      | 102 | 85       | 75  | 94      | 82  | 94       | 83  | 71        | 62  |
| 30    | ---     | --- | 113      | 105 | 83       | 72  | 90      | 76  | ---      | --- | 67        | 58  |
| 31    | ---     | --- | ---      | --- | 75       | 66  | 87      | 70  | ---      | --- | 67        | 55  |
| MONTH | ---     | --- | 134      | 92  | 133      | 66  | 94      | 47  | 95       | 60  | 112       | 55  |
|       | APRIL   |     | MAY      |     | JUNE     |     | JULY    |     | AUGUST   |     | SEPTEMBER |     |
| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | 68      | 58  | 116      | 104 | 59       | 50  | 91      | 85  | 142      | 131 | 144       | 130 |
| 2     | 67      | 56  | 133      | 117 | 61       | 54  | 92      | 84  | 141      | 136 | 138       | 128 |
| 3     | 67      | 55  | 137      | 128 | 62       | 56  | 91      | 80  | 148      | 135 | 137       | 129 |
| 4     | 65      | 54  | 137      | 125 | 66       | 59  | 89      | 82  | 151      | 132 | 139       | 133 |
| 5     | 66      | 60  | 134      | 121 | 70       | 65  | 88      | 76  | 144      | 133 | 139       | 129 |
| 6     | 69      | 65  | 127      | 116 | 72       | 67  | 80      | 69  | 133      | 110 | 143       | 137 |
| 7     | 70      | 65  | 120      | 111 | 73       | 68  | 73      | 64  | 120      | 110 | 142       | 122 |
| 8     | 71      | 64  | 117      | 110 | 76       | 67  | 73      | 64  | 117      | 108 | 122       | 106 |
| 9     | 68      | 59  | 114      | 108 | 77       | 66  | 71      | 60  | 115      | 105 | 108       | 98  |
| 10    | 69      | 56  | 114      | 104 | 76       | 67  | 70      | 60  | 125      | 114 | 108       | 98  |
| 11    | 67      | 55  | 110      | 102 | 75       | 66  | 68      | 60  | 128      | 120 | 117       | 107 |
| 12    | 64      | 58  | 110      | 101 | 73       | 62  | 67      | 60  | 129      | 123 | 121       | 115 |
| 13    | 66      | 55  | 111      | 103 | 71       | 61  | 64      | 54  | 128      | 120 | 121       | 117 |
| 14    | 64      | 55  | 117      | 109 | 68       | 62  | 65      | 54  | 132      | 126 | 121       | 117 |
| 15    | 67      | 57  | 124      | 116 | 67       | 63  | 69      | 60  | 132      | 119 | 122       | 116 |
| 16    | 70      | 60  | 127      | 121 | 69       | 63  | 77      | 70  | 125      | 114 | 126       | 120 |
| 17    | 72      | 64  | 125      | 118 | 71       | 63  | 83      | 74  | 119      | 113 | 124       | 104 |
| 18    | 74      | 64  | 124      | 114 | 73       | 69  | 85      | 78  | 123      | 118 | 114       | 100 |
| 19    | 78      | 67  | 120      | 108 | 78       | 68  | 87      | 80  | 128      | 123 | 104       | 98  |
| 20    | 79      | 69  | 114      | 99  | 82       | 76  | 94      | 84  | 128      | 124 | 104       | 100 |
| 21    | 79      | 69  | 106      | 91  | 88       | 79  | 97      | 90  | 124      | 120 | 110       | 104 |
| 22    | 80      | 71  | 97       | 90  | 89       | 80  | 99      | 93  | 130      | 124 | 120       | 110 |
| 23    | 85      | 74  | 91       | 85  | 88       | 80  | 104     | 98  | 138      | 130 | 130       | 120 |
| 24    | 89      | 79  | ---      | --- | 90       | 80  | 111     | 104 | 140      | 134 | 134       | 130 |
| 25    | 92      | 85  | ---      | --- | 87       | 74  | 116     | 110 | 144      | 138 | 134       | 130 |
| 26    | 95      | 88  | ---      | --- | 85       | 74  | 121     | 110 | 144      | 140 | 144       | 130 |
| 27    | 95      | 80  | 65       | 60  | 85       | 78  | 125     | 115 | 144      | 140 | 148       | 140 |
| 28    | 91      | 80  | 65       | 57  | 86       | 78  | 120     | 104 | 150      | 144 | 148       | 138 |
| 29    | 94      | 85  | 62       | 50  | 88       | 80  | 117     | 105 | 158      | 144 | 150       | 140 |
| 30    | 105     | 94  | 61       | 50  | 88       | 80  | 127     | 115 | 160      | 154 | 140       | 134 |
| 31    | ---     | --- | 59       | 49  | ---      | --- | 135     | 120 | 158      | 148 | ---       | --- |
| MONTH | 105     | 54  | 137      | 49  | 90       | 50  | 135     | 54  | 160      | 105 | 150       | 98  |

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

|       | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH     |     |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-----------|-----|
| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | ---     | --- | ---      | --- | 7.3      | 7.1 | 7.0     | 6.5 | 6.7      | 6.1 | 6.9       | 6.3 |
| 2     | 7.0     | 6.7 | ---      | --- | 7.4      | 7.0 | 7.0     | 6.2 | 6.8      | 6.1 | 6.9       | 6.1 |
| 3     | 7.1     | 6.9 | ---      | --- | 7.5      | 6.8 | 6.7     | 6.1 | 6.6      | 6.0 | 6.8       | 6.0 |
| 4     | 7.1     | 6.9 | 7.3      | 6.8 | 7.5      | 6.8 | 6.7     | 6.3 | 6.8      | 6.1 | 7.2       | 6.3 |
| 5     | 7.1     | 6.7 | 7.3      | 6.8 | 7.5      | 6.9 | 6.9     | 6.4 | 6.9      | 5.7 | 7.2       | 6.2 |
| 6     | 7.1     | 6.8 | 7.3      | 7.0 | 7.3      | 7.1 | 6.8     | 6.4 | 7.7      | 6.2 | 6.9       | 6.3 |
| 7     | 7.1     | 6.6 | 7.2      | 6.9 | 7.4      | 6.9 | 6.7     | 6.1 | 6.7      | 6.5 | 6.8       | 6.4 |
| 8     | 7.2     | 6.6 | 7.2      | 6.9 | 7.3      | 7.1 | 6.4     | 5.7 | 6.9      | 6.5 | 7.2       | 6.5 |
| 9     | 7.2     | 6.7 | 7.3      | 7.0 | 7.4      | 7.2 | 6.6     | 6.1 | 6.9      | 6.4 | 7.4       | 6.5 |
| 10    | 7.2     | 6.7 | 7.3      | 7.0 | 7.6      | 7.3 | 6.8     | 5.8 | 7.0      | 6.2 | 7.0       | 6.7 |
| 11    | 7.3     | 6.6 | 7.3      | 7.0 | 7.7      | 7.1 | 6.9     | 5.7 | 6.9      | 6.4 | 7.1       | 6.5 |
| 12    | 7.2     | 6.4 | 7.3      | 7.0 | 7.7      | 6.9 | 6.5     | 5.7 | 6.9      | 6.4 | 7.1       | 6.5 |
| 13    | 7.0     | 6.3 | 7.6      | 7.3 | 7.7      | 6.8 | 6.1     | 5.4 | 6.9      | 6.1 | 7.0       | 6.5 |
| 14    | 6.9     | 6.3 | 7.6      | 7.3 | 7.3      | 6.8 | 6.0     | 5.4 | 7.0      | 6.2 | 7.0       | 6.8 |
| 15    | 7.0     | 6.3 | 7.9      | 7.2 | 7.3      | 6.8 | 6.1     | 5.7 | 6.9      | 6.5 | 7.2       | 6.6 |
| 16    | 7.0     | 6.4 | 8.0      | 7.1 | 7.2      | 6.4 | 6.1     | 5.6 | 7.0      | 6.2 | 7.3       | 7.0 |
| 17    | 6.9     | 6.6 | 8.1      | 6.9 | 7.0      | 6.3 | 6.2     | 5.9 | 7.1      | 6.3 | 7.3       | 6.8 |
| 18    | 7.0     | 6.6 | 7.5      | 6.9 | 7.1      | 6.6 | 6.4     | 6.0 | 7.1      | 6.5 | 7.3       | 6.7 |
| 19    | 7.1     | 6.7 | 7.2      | 6.7 | 7.2      | 6.7 | 6.5     | 6.0 | 7.1      | 6.6 | 7.2       | 6.6 |
| 20    | 7.2     | 6.7 | 7.2      | 6.6 | 7.0      | 6.7 | 6.6     | 5.7 | 7.1      | 6.7 | ---       | --- |
| 21    | 7.2     | 6.5 | 7.2      | 6.8 | 7.0      | 6.7 | 6.8     | 6.1 | ---      | --- | ---       | --- |
| 22    | 7.0     | 6.3 | 7.3      | 6.9 | 7.1      | 6.6 | 6.7     | 6.0 | ---      | --- | ---       | --- |
| 23    | 7.0     | 6.5 | 7.3      | 7.0 | 7.1      | 6.6 | 6.7     | 6.0 | ---      | --- | ---       | --- |
| 24    | 7.0     | 6.6 | 7.4      | 7.0 | 7.0      | 6.6 | 6.7     | 5.9 | 7.1      | 6.8 | 7.3       | 6.5 |
| 25    | 6.9     | 6.7 | 7.7      | 7.0 | 7.1      | 6.8 | 6.6     | 6.0 | 7.2      | 6.8 | 7.1       | 6.5 |
| 26    | ---     | --- | 7.7      | 7.0 | 7.1      | 6.6 | 6.4     | 5.7 | 7.1      | 6.5 | 7.1       | 6.4 |
| 27    | ---     | --- | 7.2      | 6.8 | 6.9      | 6.6 | 6.5     | 5.9 | 7.2      | 6.4 | 7.0       | 6.6 |
| 28    | ---     | --- | 7.3      | 6.8 | 7.0      | 6.5 | 6.8     | 6.3 | 7.1      | 6.4 | 7.0       | 6.3 |
| 29    | ---     | --- | 7.3      | 6.9 | 7.0      | 6.8 | 6.9     | 6.2 | 7.1      | 6.5 | 7.1       | 6.4 |
| 30    | ---     | --- | 7.2      | 6.8 | 6.9      | 6.4 | 6.9     | 6.2 | ---      | --- | 6.8       | 6.1 |
| 31    | ---     | --- | ---      | --- | 6.9      | 6.4 | 6.8     | 5.9 | ---      | --- | 6.9       | 6.1 |
| MONTH | ---     | --- | 8.1      | 6.6 | 7.7      | 6.3 | 7.0     | 5.4 | 7.7      | 5.7 | 7.4       | 6.0 |
|       | APRIL   |     | MAY      |     | JUNE     |     | JULY    |     | AUGUST   |     | SEPTEMBER |     |
| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | 7.3     | 6.4 | 7.6      | 6.9 | 6.3      | 5.4 | 6.6     | 6.2 | 7.1      | 6.8 | 6.9       | 6.7 |
| 2     | 6.8     | 6.3 | 7.2      | 6.8 | 6.2      | 5.8 | 6.6     | 6.2 | 7.1      | 6.8 | 6.9       | 6.4 |
| 3     | 6.8     | 6.2 | 7.3      | 6.8 | 6.4      | 5.8 | 6.6     | 6.2 | 7.1      | 6.8 | 6.8       | 6.6 |
| 4     | 6.7     | 6.1 | 7.3      | 7.0 | 6.4      | 6.0 | 6.6     | 6.2 | 7.2      | 6.9 | 6.9       | 6.7 |
| 5     | 6.6     | 6.3 | 7.4      | 6.9 | 6.4      | 6.2 | 6.6     | 6.2 | 7.2      | 6.9 | 6.9       | 6.5 |
| 6     | 6.9     | 6.5 | 7.3      | 6.8 | 6.4      | 6.2 | 6.6     | 6.2 | 7.0      | 6.6 | 6.8       | 6.6 |
| 7     | 6.7     | 6.3 | 7.3      | 6.7 | 6.5      | 6.2 | 6.7     | 5.9 | 7.0      | 6.6 | 6.8       | 6.6 |
| 8     | 6.7     | 6.3 | 7.3      | 6.7 | 6.7      | 6.2 | 6.4     | 5.7 | 6.8      | 6.5 | 6.9       | 6.6 |
| 9     | 6.6     | 6.2 | 7.2      | 6.8 | 6.7      | 6.1 | 6.4     | 5.8 | 6.9      | 6.4 | 6.8       | 6.5 |
| 10    | 6.7     | 6.2 | 7.2      | 6.7 | 6.7      | 6.2 | 6.5     | 5.8 | 6.7      | 6.4 | 6.8       | 6.3 |
| 11    | 6.6     | 6.1 | 7.1      | 6.6 | 6.7      | 6.2 | 6.5     | 5.8 | 6.7      | 6.3 | 6.8       | 6.5 |
| 12    | 6.5     | 6.2 | 7.1      | 6.5 | 6.7      | 5.8 | 6.5     | 6.0 | 6.8      | 6.5 | 6.8       | 6.5 |
| 13    | 6.5     | 6.0 | 7.3      | 6.6 | 6.7      | 6.0 | 6.5     | 6.0 | 6.8      | 6.5 | 6.7       | 6.6 |
| 14    | 6.6     | 6.0 | 7.5      | 6.7 | 6.6      | 6.2 | 6.5     | 6.1 | 6.8      | 6.4 | 6.7       | 6.4 |
| 15    | 6.6     | 6.0 | 7.5      | 6.8 | 6.7      | 6.4 | 6.6     | 5.9 | 6.8      | 6.3 | 6.6       | 6.5 |
| 16    | 6.7     | 6.1 | 7.2      | 6.7 | 6.7      | 6.2 | 6.6     | 6.1 | 6.7      | 6.2 | 6.8       | 6.3 |
| 17    | 6.7     | 6.2 | 7.2      | 6.7 | 6.6      | 6.3 | 6.7     | 6.2 | 6.6      | 6.3 | 6.9       | 6.0 |
| 18    | 6.8     | 6.0 | 7.1      | 6.8 | 6.7      | 6.4 | 6.8     | 6.4 | 6.6      | 6.4 | 6.8       | 6.2 |
| 19    | 6.7     | 6.1 | 7.1      | 6.8 | 6.7      | 6.2 | 6.8     | 6.3 | 6.9      | 6.6 | 6.7       | 5.9 |
| 20    | 6.8     | 6.2 | 7.2      | 6.6 | 6.8      | 6.5 | 7.0     | 6.3 | 6.9      | 6.8 | 6.6       | 6.1 |
| 21    | 6.7     | 6.2 | 7.0      | 6.4 | 6.7      | 6.4 | 7.0     | 6.4 | 6.9      | 6.7 | 6.7       | 6.5 |
| 22    | 6.8     | 6.2 | 7.1      | 6.6 | 6.7      | 6.1 | 7.0     | 6.4 | 6.9      | 6.5 | 6.8       | 6.3 |
| 23    | 6.8     | 6.2 | 7.1      | 6.8 | 6.5      | 6.1 | 7.0     | 6.5 | 6.8      | 6.5 | 6.9       | 6.5 |
| 24    | 6.9     | 6.3 | ---      | --- | 6.5      | 6.1 | 7.1     | 6.5 | 6.8      | 6.6 | 6.8       | 6.4 |
| 25    | 7.0     | 6.6 | ---      | --- | 6.5      | 6.0 | 7.0     | 6.5 | 6.9      | 6.6 | 6.9       | 6.5 |
| 26    | 7.2     | 6.8 | ---      | --- | 6.5      | 5.8 | 7.1     | 6.7 | 6.9      | 6.7 | 6.8       | 6.3 |
| 27    | 7.2     | 6.9 | 6.6      | 6.0 | 6.5      | 5.9 | 7.1     | 6.6 | 6.9      | 6.6 | 6.8       | 6.3 |
| 28    | 7.3     | 6.8 | 6.4      | 5.9 | 6.5      | 5.9 | 7.1     | 6.6 | 6.9      | 6.6 | 6.8       | 6.3 |
| 29    | 7.3     | 6.9 | 6.3      | 5.6 | 6.5      | 6.0 | 7.1     | 6.7 | 6.9      | 6.4 | 6.8       | 6.4 |
| 30    | 7.5     | 6.9 | 6.2      | 5.6 | 6.5      | 6.1 | 7.1     | 6.7 | 6.8      | 6.4 | 6.8       | 6.6 |
| 31    | ---     | --- | 6.2      | 5.4 | ---      | --- | 7.1     | 6.8 | 6.9      | 6.6 | ---       | --- |
| MONTH | 7.5     | 6.0 | 7.6      | 5.4 | 6.8      | 5.4 | 7.1     | 5.7 | 7.2      | 6.2 | 6.9       | 5.9 |

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.--Continued

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.--Continued

## DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

|       | OCTOBER |     | NOVEMBER |     | DECEMBER |      | JANUARY |      | FEBRUARY |      | MARCH     |     |
|-------|---------|-----|----------|-----|----------|------|---------|------|----------|------|-----------|-----|
| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX       | MIN |
| 1     | ---     | --- | ---      | --- | 9.1      | 9.0  | 10.2    | 9.8  | 9.9      | 9.3  | 9.6       | 8.2 |
| 2     | 6.8     | 6.4 | ---      | --- | 9.1      | 8.8  | 10.2    | 9.7  | 9.7      | 9.4  | 9.3       | 7.8 |
| 3     | 7.3     | 6.7 | ---      | --- | 9.2      | 8.7  | 10.0    | 9.3  | 10.4     | 9.4  | 9.1       | 7.4 |
| 4     | 7.5     | 7.0 | 7.0      | 6.5 | 9.4      | 8.7  | 9.6     | 9.4  | 10.1     | 9.3  | 8.6       | 7.4 |
| 5     | 7.6     | 7.0 | 7.1      | 6.7 | 9.5      | 9.1  | 9.8     | 9.5  | 10.1     | 9.2  | 8.4       | 7.2 |
| 6     | 7.4     | 7.0 | 6.8      | 6.6 | 9.5      | 9.1  | 10.0    | 9.7  | 10.0     | 9.4  | 8.2       | 7.0 |
| 7     | 7.1     | 6.0 | 6.6      | 6.2 | 9.4      | 8.9  | 10.0    | 9.7  | 9.8      | 9.7  | 8.3       | 7.2 |
| 8     | 6.1     | 5.8 | 6.1      | 5.9 | 9.3      | 9.0  | 9.8     | 9.6  | 10.3     | 9.9  | 8.6       | 7.6 |
| 9     | 6.3     | 5.6 | 6.0      | 5.8 | 9.2      | 9.0  | 10.1    | 9.7  | 10.6     | 10.3 | 8.2       | 7.5 |
| 10    | 6.5     | 5.6 | 6.0      | 5.7 | 9.4      | 9.2  | 10.5    | 9.6  | 10.8     | 10.2 | 8.5       | 8.1 |
| 11    | 6.5     | 5.6 | 5.8      | 5.6 | 9.7      | 9.4  | 10.5    | 10.1 | 10.9     | 10.2 | 9.0       | 8.3 |
| 12    | 6.3     | 5.3 | 5.5      | 5.4 | 9.9      | 9.5  | 10.4    | 9.7  | 10.9     | 10.0 | 9.4       | 8.5 |
| 13    | 6.0     | 5.3 | 6.6      | 5.3 | 10.0     | 9.5  | 10.1    | 9.4  | 10.8     | 9.8  | 9.0       | 8.2 |
| 14    | 5.9     | 5.3 | 7.7      | 6.6 | 9.9      | 9.4  | 9.8     | 9.2  | 10.7     | 9.7  | 9.2       | 8.7 |
| 15    | 6.0     | 5.3 | 8.4      | 7.4 | 9.8      | 9.1  | 9.7     | 9.4  | 10.6     | 9.6  | 9.4       | 8.7 |
| 16    | 6.1     | 5.4 | 8.9      | 8.2 | 9.6      | 9.0  | 9.9     | 9.2  | 10.3     | 9.2  | 9.3       | 8.6 |
| 17    | 5.7     | 5.5 | 8.9      | 8.5 | 9.3      | 8.8  | 9.5     | 9.4  | 10.1     | 9.1  | 9.6       | 9.3 |
| 18    | 6.0     | 5.4 | 8.8      | 8.5 | 9.4      | 9.1  | 10.0    | 9.5  | 9.6      | 8.3  | 10.1      | 9.7 |
| 19    | 6.5     | 5.8 | 8.7      | 8.3 | 10.0     | 9.3  | 10.6    | 10.0 | 9.0      | 7.9  | 10.3      | 9.5 |
| 20    | 7.1     | 6.3 | 8.5      | 8.1 | 10.5     | 9.8  | 10.7    | 10.3 | 9.3      | 8.2  | ---       | --- |
| 21    | 7.5     | 6.5 | 8.4      | 8.1 | 10.6     | 10.3 | 10.7    | 10.2 | ---      | ---  | ---       | --- |
| 22    | 7.4     | 6.4 | 8.6      | 8.3 | 10.8     | 10.5 | 11.0    | 10.2 | ---      | ---  | ---       | --- |
| 23    | 7.4     | 6.1 | 8.9      | 8.6 | 11.0     | 10.8 | 11.3    | 10.1 | ---      | ---  | ---       | --- |
| 24    | 6.7     | 6.2 | 9.2      | 9.0 | 11.3     | 11.1 | 11.1    | 10.0 | 10.0     | 8.4  | 9.3       | 7.9 |
| 25    | 6.6     | 6.2 | 9.4      | 9.2 | 11.3     | 11.0 | 10.7    | 9.9  | 10.0     | 9.4  | 9.3       | 8.1 |
| 26    | ---     | --- | 9.5      | 9.4 | 11.1     | 10.6 | 10.5    | 9.5  | 10.1     | 8.9  | 9.2       | 8.3 |
| 27    | ---     | --- | 9.5      | 9.1 | 10.6     | 10.4 | 10.1    | 9.6  | 10.0     | 8.7  | 9.0       | 8.3 |
| 28    | ---     | --- | 9.4      | 8.9 | 10.8     | 10.5 | 10.4    | 9.6  | 10.0     | 8.7  | 8.9       | 8.2 |
| 29    | ---     | --- | 9.3      | 9.1 | 11.0     | 10.8 | 10.2    | 9.8  | 9.8      | 8.6  | 8.8       | 8.0 |
| 30    | ---     | --- | 9.3      | 8.8 | 10.9     | 10.3 | 10.3    | 9.7  | ---      | ---  | 8.5       | 7.4 |
| 31    | ---     | --- | ---      | --- | 10.4     | 9.9  | 10.2    | 9.2  | ---      | ---  | 8.4       | 7.1 |
| MONTH | ---     | --- | 9.5      | 5.3 | 11.3     | 8.7  | 11.3    | 9.2  | 10.9     | 7.9  | 10.3      | 7.0 |
|       | APRIL   |     | MAY      |     | JUNE     |      | JULY    |      | AUGUST   |      | SEPTEMBER |     |
| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX       | MIN |
| 1     | 8.5     | 7.1 | 9.1      | 7.6 | 7.2      | 5.3  | 5.7     | 5.5  | 6.2      | 6.0  | 6.3       | 5.8 |
| 2     | 8.5     | 7.3 | 8.6      | 7.5 | 7.0      | 5.8  | 5.9     | 5.5  | 6.3      | 6.0  | 6.3       | 6.0 |
| 3     | 8.8     | 7.2 | 8.7      | 7.3 | 6.9      | 5.6  | 5.9     | 5.7  | 6.5      | 6.0  | 6.2       | 6.0 |
| 4     | 8.6     | 7.4 | 9.1      | 8.3 | 6.7      | 5.9  | 5.9     | 5.7  | 6.5      | 6.0  | 6.2       | 6.0 |
| 5     | 8.3     | 7.4 | 9.2      | 8.0 | 6.7      | 6.3  | 5.9     | 5.6  | 6.4      | 6.0  | 6.2       | 6.1 |
| 6     | 8.1     | 7.5 | 9.1      | 7.6 | 6.8      | 6.6  | 6.0     | 5.8  | 6.3      | 6.2  | 6.2       | 6.0 |
| 7     | 7.8     | 6.9 | 8.6      | 7.2 | 6.9      | 6.4  | 6.2     | 5.8  | 6.2      | 6.1  | 6.4       | 6.1 |
| 8     | 7.7     | 7.0 | 8.3      | 7.1 | 6.8      | 5.5  | 6.0     | 5.7  | 6.2      | 6.0  | 6.5       | 6.4 |
| 9     | 7.9     | 6.9 | 8.4      | 7.5 | 6.6      | 5.4  | 6.1     | 5.9  | 6.2      | 5.9  | 6.5       | 6.3 |
| 10    | 8.0     | 7.0 | 8.3      | 6.9 | 6.6      | 5.6  | 6.2     | 5.9  | 5.9      | 5.7  | 6.5       | 6.1 |
| 11    | 8.2     | 6.9 | 7.7      | 6.4 | 6.6      | 5.4  | 6.1     | 5.9  | 5.9      | 5.8  | 6.3       | 6.2 |
| 12    | 7.9     | 7.2 | 7.7      | 6.3 | 6.5      | 5.3  | 5.9     | 5.8  | 6.0      | 5.7  | 6.4       | 6.1 |
| 13    | 7.9     | 6.8 | 7.6      | 6.2 | 6.6      | 5.4  | 5.9     | 5.6  | 6.1      | 5.8  | 6.6       | 6.3 |
| 14    | 7.8     | 6.6 | 7.5      | 6.4 | 6.6      | 5.6  | 5.7     | 5.6  | 5.9      | 5.7  | 6.9       | 6.5 |
| 15    | 7.6     | 6.5 | 7.4      | 6.5 | 6.6      | 6.2  | 5.7     | 5.3  | 5.9      | 5.7  | 6.8       | 6.5 |
| 16    | 7.8     | 6.6 | 7.4      | 6.3 | 6.6      | 5.8  | 5.6     | 5.4  | 5.9      | 5.6  | 6.8       | 6.5 |
| 17    | 7.9     | 6.6 | 7.4      | 6.1 | 6.5      | 5.8  | 5.5     | 5.3  | 5.7      | 5.6  | 6.9       | 6.8 |
| 18    | 7.9     | 6.5 | 7.2      | 6.5 | 6.5      | 6.2  | 5.5     | 5.3  | 6.0      | 5.5  | 6.8       | 6.5 |
| 19    | 7.8     | 6.5 | 7.2      | 6.8 | 6.4      | 6.0  | 5.3     | 5.2  | 6.2      | 5.9  | 6.6       | 6.2 |
| 20    | 7.7     | 6.4 | 7.2      | 6.6 | 6.5      | 6.0  | 5.3     | 5.1  | 6.3      | 6.1  | 6.4       | 6.1 |
| 21    | 7.5     | 6.5 | 7.2      | 6.2 | 6.1      | 5.8  | 5.3     | 5.1  | 6.4      | 6.2  | 6.3       | 6.1 |
| 22    | 7.5     | 6.4 | 6.9      | 6.4 | 6.2      | 5.7  | 5.4     | 5.1  | 6.4      | 6.2  | 6.2       | 6.1 |
| 23    | 7.7     | 6.5 | 6.8      | 6.4 | 6.1      | 5.8  | 5.3     | 5.2  | 6.3      | 6.1  | 6.4       | 6.1 |
| 24    | 7.9     | 6.8 | ---      | --- | 6.1      | 5.7  | 5.4     | 4.9  | 6.3      | 6.0  | 6.6       | 6.2 |
| 25    | 7.7     | 7.1 | ---      | --- | 6.1      | 5.5  | 5.5     | 4.8  | 6.2      | 6.0  | 6.6       | 6.2 |
| 26    | 8.7     | 7.3 | ---      | --- | 5.8      | 4.9  | 5.7     | 5.4  | 6.3      | 5.9  | 6.3       | 5.9 |
| 27    | 9.3     | 7.8 | 7.1      | 6.7 | 5.7      | 5.1  | 5.7     | 5.1  | 6.2      | 5.7  | 6.1       | 5.9 |
| 28    | 9.4     | 7.9 | 7.4      | 6.6 | 6.0      | 4.9  | 5.8     | 5.1  | 6.1      | 5.8  | 6.1       | 5.9 |
| 29    | 9.5     | 8.1 | 7.4      | 5.9 | 5.8      | 4.7  | 6.2     | 5.7  | 6.1      | 5.7  | 6.3       | 5.8 |
| 30    | 9.3     | 8.0 | 7.2      | 5.6 | 5.7      | 5.4  | 6.2     | 6.0  | 6.1      | 5.7  | 6.3       | 6.0 |
| 31    | ---     | --- | 7.3      | 5.7 | ---      | ---  | 6.2     | 5.9  | 6.3      | 5.8  | ---       | --- |
| MONTH | 9.5     | 6.4 | 9.2      | 5.6 | 7.2      | 4.7  | 6.2     | 4.8  | 6.5      | 5.5  | 6.9       | 5.8 |

## RESERVOIRS IN ALTAMAHA RIVER BASIN

02210000 LLOYD SHOALS RESERVOIR.--Lat 33°19'13", long 83°50'20", Butts County, 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 mi<sup>2</sup> (3,626 km<sup>2</sup>). 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 hm<sup>3</sup>), of which 78,000 acre-ft (96.2 hm<sup>3</sup>) is usable storage. Reservoir is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Co.

02222500 SINCLAIR RESERVOIR.--Lat 33°08'27", long 83°12'08", Baldwin County, 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 mi<sup>2</sup> (7,511 km<sup>2</sup>). 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 gates, is 334,000 acre-ft (412 hm<sup>3</sup>), of which 214,600 acre-ft (265 hm<sup>3</sup>) 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 1975 TO SEPTEMBER 1976

| Date                            | Elevation<br>(feet)† | Contents<br>(acre-feet) | Change in<br>contents<br>(acre-feet) | Elevation<br>(feet)†        | Contents<br>(acre-feet) | Change in<br>contents<br>(acre-feet) |
|---------------------------------|----------------------|-------------------------|--------------------------------------|-----------------------------|-------------------------|--------------------------------------|
| 02210000 LLOYD SHOALS RESERVOIR |                      |                         |                                      | 02222500 SINCLAIR RESERVOIR |                         |                                      |
| Sept. 30.....                   | 524.3                | 82200                   | -                                    | 338.4                       | 310000                  | -                                    |
| Oct. 31.....                    | 523.5                | 79200                   | -3000                                | 337.6                       | 298400                  | -11600                               |
| Nov. 30.....                    | 523.2                | 78200                   | -1000                                | 336.8                       | 287200                  | -11200                               |
| Dec. 31.....                    | 524.4                | 82600                   | +4400                                | 335.9                       | 274700                  | -12500                               |
| CAL YR 1975                     | -                    | -                       | -21400                               | -                           | -                       | -16700                               |
| Jan. 31.....                    | 529.0                | 102000                  | +19400                               | 339.4                       | 325000                  | +50300                               |
| Feb. 29.....                    | 528.1                | 98000                   | -4000                                | 337.9                       | 302600                  | -22400                               |
| Mar. 31.....                    | 528.3                | 98800                   | +800                                 | 337.3                       | 294200                  | -8400                                |
| Apr. 30.....                    | 528.8                | 101000                  | +2200                                | 338.7                       | 314500                  | +20300                               |
| May 31.....                     | 530.3                | 108000                  | +7000                                | 338.8                       | 316000                  | +1500                                |
| June 30.....                    | 529.2                | 103000                  | -5000                                | 339.0                       | 319000                  | +3000                                |
| July 31.....                    | 528.6                | 100000                  | -3000                                | 337.9                       | 302600                  | -16400                               |
| Aug. 31.....                    | 527.8                | 96600                   | -3400                                | 337.0                       | 290000                  | -12600                               |
| Sept. 30.....                   | 525.7                | 87800                   | -8800                                | 337.6                       | 298400                  | +8400                                |
| WTR YR 1976                     | -                    | -                       | +5600                                | -                           | -                       | -11600                               |

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



## SATILLA RIVER BASIN

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02226475 SATILLA RIVER AT WALTERTOWN, GA.

LOCATION.--Lat 31°18'17", long 82°23'33", Ware County, 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.<br>07... | 0645 | 441                                           | 5.2           | 20.0                        | 6.1                                |
| DEC.<br>03... | 0915 | 133                                           | 5.8           | 10.0                        | 9.2                                |
| JAN.<br>06... | 1030 | 2920                                          | 4.2           | 8.0                         | 9.8                                |
| FEB.<br>04... | 1045 | 3220                                          | 4.8           | 9.0                         | 8.9                                |
| MAR.<br>09... | 1045 | 269                                           | 5.6           | 17.0                        | 7.3                                |
| MAY<br>05...  | 0900 | 180                                           | 5.5           | 19.5                        | 8.5                                |
| JUNE<br>08... | 0945 | 723                                           | 5.0           | 20.0                        | 8.0                                |
| JULY<br>07... | 0945 | 1340                                          | 4.9           | 23.0                        | 5.8                                |
| AUG.<br>04... | 0900 | 485                                           | 4.8           | 23.5                        | 5.8                                |
| SEP.<br>14... | 1130 | 552                                           | 5.4           | 20.0                        | 7.5                                |

| DATE          | ALKA-<br>LINITY<br>AS<br>CAC03<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) |
|---------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| OCT.<br>07... | 2                                        | .06                                                  | .20                                                | .08                                       | 9                                  |
| DEC.<br>03... | 3                                        | .02                                                  | <.02                                               | .02                                       | 9                                  |
| JAN.<br>06... | 0                                        | <.02                                                 | <.02                                               | .02                                       | 6                                  |
| FEB.<br>04... | 0                                        | <.02                                                 | <.02                                               | .07                                       | 6                                  |
| MAR.<br>09... | 4                                        | .11                                                  | .02                                                | .07                                       | 8                                  |
| MAY<br>05...  | --                                       | .10                                                  | <.02                                               | .07                                       | 9                                  |
| JUNE<br>08... | 1                                        | .07                                                  | .03                                                | .06                                       | 6                                  |
| JULY<br>07... | --                                       | .03                                                  | <.02                                               | .04                                       | 7                                  |
| AUG.<br>04... | 0                                        | .11                                                  | <.02                                               | .08                                       | 8                                  |
| SEP.<br>14... | <1                                       | <.02                                                 | <.02                                               | .08                                       | 10                                 |

## SATILLA RIVER BASIN

02226475 SATILLA RIVER AT WALTERTOWN, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | RIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>07... | 36                                                         | 120                                          | 8                            | .7                                                           | 930                                              | 36                                          |
| DEC.<br>03... | 46                                                         | 70                                           | 3                            | .7                                                           | <30                                              | 11                                          |
| JAN.<br>06... | 43                                                         | 120                                          | 8                            | .7                                                           | 210                                              | 25                                          |
| FEB.<br>04... | 37                                                         | 120                                          | 6                            | .8                                                           | <30                                              | 19                                          |
| MAR.<br>09... | 44                                                         | 100                                          | 6                            | --                                                           | --                                               | 14                                          |
| MAY<br>05...  | 46                                                         | --                                           | --                           | --                                                           | --                                               | 16                                          |
| JUNE<br>08... | 38                                                         | 220                                          | 7                            | 1.4                                                          | 36                                               | 30                                          |
| JULY<br>07... | 34                                                         | 120                                          | 6                            | 1.4                                                          | 36                                               | 26                                          |
| AUG.<br>04... | 49                                                         | 150                                          | 12                           | --                                                           | --                                               | 22                                          |
| SEP.<br>14... | 47                                                         | 120                                          | 13                           | 1.0                                                          | 230                                              | 20                                          |

## 02226500 SATILLA RIVER NEAR WAYCROSS, GA.

LOCATION.--Lat 31°14'17", long 82°19'29", Ware County, 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 mi<sup>2</sup> (3,110 km<sup>2</sup>), 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.--39 years, 1,008 ft<sup>3</sup>/s (28.5 m<sup>3</sup>/s), 11.41 in/yr (289.8 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,000 ft<sup>3</sup>/s (1,100 m<sup>3</sup>/s) Apr. 4, 1948, gage height, 22.4 ft /s (6.83 m) from floodmark; minimum, 6.0 ft<sup>3</sup>/s (0.170 m<sup>3</sup>/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, 8,340 ft<sup>3</sup>/s (236 m<sup>3</sup>/s) May 29, gage height, 16.68 ft (5.084 m); minimum, 35 ft<sup>3</sup>/s (0.99 m<sup>3</sup>/s) Apr. 29, 30.

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

| DAY         | OCT   | NOV    | DEC   | JAN   | FEB   | MAR   | APR  | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|--------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|
| 1           | 1200  | 341    | 165   | 1300  | 4870  | 562   | 423  | 82    | 5890  | 1860  | 235   | 432   |
| 2           | 818   | 307    | 160   | 1680  | 5570  | 526   | 432  | 59    | 4790  | 1920  | 203   | 268   |
| 3           | 648   | 289    | 154   | 2060  | 5510  | 481   | 483  | 62    | 4000  | 2080  | 505   | 212   |
| 4           | 595   | 280    | 153   | 2490  | 5110  | 438   | 522  | 121   | 3400  | 2210  | 723   | 182   |
| 5           | 539   | 244    | 158   | 3050  | 4570  | 400   | 518  | 171   | 2720  | 2210  | 815   | 187   |
| 6           | 529   | 206    | 168   | 3650  | 4190  | 368   | 484  | 191   | 2060  | 2070  | 990   | 161   |
| 7           | 599   | 186    | 168   | 3910  | 3990  | 355   | 451  | 268   | 1420  | 1790  | 1110  | 163   |
| 8           | 669   | 187    | 167   | 3910  | 3810  | 327   | 417  | 401   | 993   | 1480  | 1200  | 233   |
| 9           | 834   | 181    | 189   | 3660  | 3600  | 325   | 389  | 622   | 743   | 1300  | 1070  | 362   |
| 10          | 1300  | 167    | 194   | 3330  | 3280  | 314   | 349  | 759   | 560   | 1360  | 856   | 687   |
| 11          | 1810  | 159    | 183   | 3060  | 2830  | 305   | 307  | 802   | 434   | 1520  | 679   | 950   |
| 12          | 2270  | 162    | 173   | 2970  | 2320  | 327   | 281  | 802   | 349   | 1640  | 600   | 965   |
| 13          | 2640  | 204    | 166   | 3100  | 1860  | 346   | 265  | 833   | 265   | 1620  | 601   | 831   |
| 14          | 2800  | 196    | 159   | 3190  | 1530  | 348   | 233  | 842   | 215   | 1350  | 638   | 778   |
| 15          | 2510  | 233    | 158   | 3100  | 1290  | 350   | 194  | 1000  | 177   | 905   | 786   | 900   |
| 16          | 1860  | 301    | 162   | 2860  | 1110  | 436   | 167  | 1270  | 157   | 619   | 847   | 1170  |
| 17          | 1300  | 384    | 203   | 2560  | 971   | 549   | 157  | 1680  | 169   | 449   | 990   | 1470  |
| 18          | 970   | 494    | 328   | 2220  | 876   | 612   | 149  | 2110  | 236   | 430   | 903   | 1690  |
| 19          | 857   | 541    | 411   | 1870  | 817   | 730   | 138  | 2470  | 396   | 283   | 675   | 1940  |
| 20          | 879   | 477    | 527   | 1620  | 766   | 857   | 117  | 2810  | 608   | 229   | 501   | 2010  |
| 21          | 935   | 388    | 568   | 1410  | 716   | 952   | 98   | 3110  | 795   | 198   | 375   | 1870  |
| 22          | 1000  | 323    | 570   | 1230  | 683   | 969   | 84   | 3370  | 926   | 164   | 275   | 1450  |
| 23          | 1080  | 279    | 564   | 1090  | 703   | 902   | 71   | 3900  | 1480  | 147   | 228   | 934   |
| 24          | 1080  | 251    | 575   | 973   | 727   | 792   | 65   | 4530  | 2450  | 119   | 197   | 592   |
| 25          | 939   | 231    | 581   | 884   | 745   | 683   | 60   | 4620  | 2990  | 97    | 188   | 430   |
| 26          | 753   | 216    | 596   | 827   | 714   | 598   | 54   | 5300  | 2980  | 129   | 205   | 364   |
| 27          | 620   | 203    | 618   | 1100  | 656   | 534   | 47   | 6790  | 2690  | 146   | 235   | 337   |
| 28          | 544   | 191    | 688   | 1720  | 614   | 481   | 42   | 7900  | 2350  | 243   | 163   | 299   |
| 29          | 483   | 180    | 775   | 2330  | 591   | 437   | 39   | 8230  | 2070  | 401   | 140   | 321   |
| 30          | 429   | 172    | 855   | 2900  | ---   | 410   | 36   | 7910  | 1920  | 439   | 117   | 322   |
| 31          | 379   | ---    | 1010  | 3690  | ---   | 408   | ---  | 7010  | ---   | 351   | 274   | ---   |
| TOTAL       | 33869 | 7973   | 11546 | 73744 | 65019 | 16122 | 7072 | 80025 | 50233 | 29759 | 17324 | 22510 |
| MFAN        | 1093  | 266    | 372   | 2379  | 2242  | 520   | 236  | 2581  | 1674  | 960   | 559   | 750   |
| MAX         | 2800  | 541    | 1010  | 3910  | 5570  | 969   | 522  | 8230  | 5890  | 2210  | 1200  | 2010  |
| MIN         | 379   | 159    | 153   | 827   | 591   | 305   | 36   | 59    | 157   | 97    | 117   | 161   |
| CFSM        | .91   | .22    | .31   | 1.98  | 1.87  | .43   | .20  | 2.15  | 1.40  | .80   | .47   | .63   |
| IN.         | 1.05  | .25    | .36   | 2.29  | 2.02  | .50   | .22  | 2.48  | 1.56  | .92   | .54   | .70   |
| CAL YR 1975 | TOTAL | 578887 | MEAN  | 1586  | MAX   | 9880  | MIN  | 142   | CFSM  | 1.32  | IN    | 17.95 |
| WTR YR 1976 | TOTAL | 415196 | MEAN  | 1134  | MAX   | 8230  | MIN  | 36    | CFSM  | .95   | IN    | 12.87 |

## SATILLA RIVER BASIN

02226582 SATILLA RIVER NEAR HOBOKEN, GA.

LOCATION.--Lat 31°13'00", long 82°09'45", Brantley County, at bridge on State Highway 121, 3 mi (4.8 km) northeast of Hoboken.  
 DRAINAGE AREA.--1,350 mi<sup>2</sup> (3,500 km<sup>2</sup>), 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.<br>07... | 0830 | 590                                           | 5.6           | 21.0                        | 6.1                                |
| DEC.<br>03... | 1055 | 188                                           | 5.7           | 12.0                        | 8.5                                |
| JAN.<br>06... | 0900 | 2500                                          | 4.5           | 8.0                         | 9.0                                |
| FEB.<br>04... | 0930 | 5820                                          | 4.8           | 9.5                         | 8.6                                |
| MAR.<br>09... | 0930 | 368                                           | 6.3           | 18.5                        | 7.2                                |
| APR.<br>06... | 0845 | 484                                           | 5.6           | 18.0                        | 7.8                                |
| MAY<br>05...  | 0700 | 120                                           | 6.2           | 19.5                        | 7.4                                |
| JUNE<br>08... | 0730 | 2020                                          | 5.0           | 19.0                        | 6.7                                |
| JULY<br>07... | 0745 | 2070                                          | 4.9           | 23.0                        | 5.3                                |
| AUG.<br>04... | 0800 | 765                                           | 5.7           | 24.0                        | 5.9                                |
| SEP.<br>14... | 0945 | 1480                                          | 5.3           | 21.0                        | 6.6                                |

| DATE          | ALKA-<br>LINITY<br>AS<br>CAC03<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) |
|---------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|
| OCT.<br>07... | 4                                        | .09                                                  | .05                                                | .12                                       | 12                                  |
| DEC.<br>03... | 7                                        | .23                                                  | .10                                                | .20                                       | 14                                  |
| JAN.<br>06... | 0                                        | .06                                                  | .23                                                | .04                                       | 7                                   |
| FEB.<br>04... | 0                                        | <.02                                                 | <.02                                               | .02                                       | 6                                   |
| MAR.<br>09... | 6                                        | .19                                                  | .13                                                | .17                                       | 12                                  |
| APR.<br>06... | 3                                        | .15                                                  | .08                                                | .13                                       | 8                                   |
| MAY<br>05...  | --                                       | .53                                                  | .21                                                | .31                                       | 18                                  |
| JUNE<br>08... | 1                                        | .04                                                  | .03                                                | .07                                       | 8                                   |
| JULY<br>07... | 0                                        | .02                                                  | .04                                                | .06                                       | 8                                   |
| AUG.<br>04... | 5                                        | .16                                                  | .11                                                | .19                                       | 10                                  |
| SEP.<br>14... | 1                                        | .04                                                  | <.02                                               | .08                                       | 10                                  |

## SATILLA RIVER BASIN

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02226582 SATILLA RIVER NEAR HOBOKEN, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|-------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 07... | 40                                                         | 130                                          | 15                           | .9                                                           | 23000                                            | 20                                          |
| DEC.  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 03... | 63                                                         | 60                                           | 5                            | .8                                                           | 9300                                             | 11                                          |
| JAN.  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 06... | 41                                                         | 120                                          | 15                           | 1.2                                                          | 1500                                             | 23                                          |
| FEB.  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 04... | 38                                                         | 140                                          | 7                            | .9                                                           | 150                                              | 20                                          |
| MAR.  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 09... | 55                                                         | 100                                          | 7                            | --                                                           | --                                               | 13                                          |
| APR.  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 06... | 45                                                         | 120                                          | 9                            | --                                                           | --                                               | 19                                          |
| MAY   |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 05... | 85                                                         | --                                           | --                           | --                                                           | --                                               | 10                                          |
| JUNE  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 08... | 39                                                         | 240                                          | 7                            | 1.3                                                          | 1500                                             | 32                                          |
| JULY  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 07... | 33                                                         | 160                                          | 6                            | 1.1                                                          | 2300                                             | 29                                          |
| AUG.  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 04... | 45                                                         | 150                                          | 69                           | --                                                           | --                                               | 17                                          |
| SEP.  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 14... | 45                                                         | 180                                          | 6                            | 1.3                                                          | 430                                              | 21                                          |

## 02227500 LITTLE SATILLA RIVER NEAR OFFERMAN, GA.

LOCATION.--Lat 31°27'04", long 82°03'17", Pierce County, 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 mi<sup>2</sup> (1,673 km<sup>2</sup>).

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 ft<sup>3</sup>/s (1.42 m<sup>3</sup>/s), which are fair. Records of chemical analyses for the water year 1970 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--25 years, 499 ft<sup>3</sup>/s (14.1 m<sup>3</sup>/s), 10.49 in/yr (266.4 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,200 ft<sup>3</sup>/s (487 m<sup>3</sup>/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, 4,680 ft<sup>3</sup>/s (133 m<sup>3</sup>/s) Jan. 31, gage height, 10.83 ft (3.301 m); minimum, 1.5 ft<sup>3</sup>/s (0.042 m<sup>3</sup>/s) Apr. 29, 30.

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

| DAY         | OCT   | NOV      | DEC  | JAN   | FEB   | MAR  | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|----------|------|-------|-------|------|--------|-------|-------|-------|-------|-------|
| 1           | 363   | 134      | 87   | 593   | 4520  | 219  | 147    | 12    | 1560  | 1180  | 121   | 173   |
| 2           | 430   | 123      | 86   | 725   | 3890  | 202  | 139    | 49    | 1310  | 1180  | 70    | 154   |
| 3           | 436   | 114      | 85   | 843   | 3190  | 187  | 135    | 59    | 1050  | 1000  | 350   | 113   |
| 4           | 424   | 105      | 83   | 1030  | 2660  | 175  | 138    | 53    | 905   | 876   | 866   | 94    |
| 5           | 563   | 95       | 82   | 1200  | 2340  | 164  | 130    | 91    | 862   | 788   | 672   | 174   |
| 6           | 668   | 86       | 86   | 1310  | 2100  | 154  | 116    | 95    | 657   | 768   | 329   | 227   |
| 7           | 558   | 81       | 105  | 1250  | 1860  | 149  | 114    | 73    | 408   | 738   | 148   | 236   |
| 8           | 462   | 80       | 115  | 1140  | 1690  | 141  | 107    | 75    | 270   | 658   | 105   | 367   |
| 9           | 434   | 84       | 150  | 1080  | 1490  | 151  | 94     | 91    | 186   | 685   | 244   | 531   |
| 10          | 403   | 117      | 191  | 1110  | 1280  | 158  | 77     | 140   | 131   | 646   | 288   | 681   |
| 11          | 393   | 157      | 176  | 1180  | 1080  | 150  | 67     | 231   | 95    | 656   | 260   | 738   |
| 12          | 496   | 144      | 154  | 1320  | 899   | 143  | 60     | 227   | 69    | 650   | 219   | 800   |
| 13          | 930   | 188      | 138  | 1580  | 772   | 144  | 50     | 177   | 48    | 577   | 235   | 814   |
| 14          | 1540  | 239      | 124  | 1550  | 670   | 147  | 46     | 198   | 30    | 464   | 359   | 950   |
| 15          | 1450  | 246      | 114  | 1350  | 573   | 167  | 78     | 321   | 33    | 329   | 411   | 1050  |
| 16          | 1160  | 244      | 108  | 1150  | 498   | 208  | 59     | 826   | 93    | 204   | 314   | 1000  |
| 17          | 927   | 213      | 112  | 994   | 435   | 341  | 32     | 1070  | 284   | 123   | 839   | 857   |
| 18          | 831   | 209      | 264  | 865   | 390   | 400  | 21     | 1200  | 1090  | 90    | 1380  | 719   |
| 19          | 765   | 222      | 356  | 765   | 356   | 440  | 15     | 1130  | 1670  | 94    | 1330  | 617   |
| 20          | 717   | 203      | 340  | 674   | 327   | 470  | 11     | 1260  | 1530  | 75    | 676   | 553   |
| 21          | 647   | 173      | 296  | 579   | 304   | 499  | 8.4    | 1340  | 1470  | 164   | 334   | 539   |
| 22          | 564   | 148      | 247  | 496   | 323   | 516  | 6.7    | 1170  | 1700  | 181   | 212   | 565   |
| 23          | 548   | 133      | 213  | 425   | 377   | 514  | 6.6    | 1260  | 2850  | 106   | 154   | 528   |
| 24          | 514   | 122      | 196  | 377   | 413   | 470  | 5.1    | 2040  | 4010  | 61    | 119   | 428   |
| 25          | 423   | 113      | 188  | 345   | 408   | 397  | 3.8    | 2270  | 3900  | 35    | 93    | 457   |
| 26          | 339   | 107      | 256  | 321   | 341   | 320  | 3.0    | 2480  | 2770  | 29    | 89    | 461   |
| 27          | 275   | 102      | 361  | 582   | 285   | 263  | 2.4    | 2640  | 1860  | 35    | 150   | 359   |
| 28          | 227   | 97       | 387  | 1240  | 258   | 227  | 2.1    | 2750  | 1380  | 72    | 101   | 343   |
| 29          | 193   | 93       | 380  | 2140  | 238   | 201  | 1.8    | 2630  | 1130  | 60    | 63    | 337   |
| 30          | 169   | 89       | 371  | 3460  | ---   | 182  | 2.0    | 2250  | 1090  | 69    | 42    | 307   |
| 31          | 150   | ---      | 427  | 4440  | ---   | 163  | ---    | 1820  | ---   | 226   | 83    | ---   |
| TOTAL       | 17999 | 4261     | 6278 | 36114 | 33967 | 8062 | 1677.9 | 30028 | 34441 | 12819 | 10656 | 15172 |
| MEAN        | 581   | 142      | 203  | 1165  | 1171  | 260  | 55.9   | 969   | 1148  | 414   | 344   | 506   |
| MAX         | 1540  | 246      | 427  | 4440  | 4520  | 516  | 147    | 2750  | 4010  | 1180  | 1380  | 1050  |
| MIN         | 150   | 80       | 82   | 321   | 238   | 141  | 1.8    | 12    | 30    | 29    | 42    | 94    |
| CFSM        | .90   | .22      | .31  | 1.80  | 1.81  | .40  | .09    | 1.50  | 1.78  | .64   | .53   | .78   |
| IN.         | 1.04  | .25      | .36  | 2.08  | 1.96  | .46  | .10    | 1.73  | 1.98  | .74   | .61   | .87   |
| CAL YR 1975 | TOTAL | 266697.0 | MEAN | 731   | MAX   | 5060 | MIN    | 13    | CFSM  | 1.13  | IN    | 15.36 |
| WTR YR 1976 | TOTAL | 211474.9 | MEAN | 578   | MAX   | 4520 | MIN    | 1.8   | CFSM  | .89   | IN    | 12.18 |



## SATILLA RIVER BASIN

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02228000 SATILLA RIVER AT ATKINSON, GA.  
(National stream-quality accounting network station)

LOCATION.--Lat 31°13'16", long 81°52'03", Brantley County, 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 mi<sup>2</sup> (7,230 km<sup>2</sup>), 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, which are poor.  
AVERAGE DISCHARGE.--46 years, 2,209 ft<sup>3</sup>/s (62.6 m<sup>3</sup>/s), 10.75 in/yr (273.0 mm/yr).  
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,100 ft<sup>3</sup>/s (1,930 m<sup>3</sup>/s) Apr. 6, 1948, gage height, 23.9 ft (7.28 m); minimum daily, 21 ft<sup>3</sup>/s (0.59 m<sup>3</sup>/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 ft<sup>3</sup>/s (3,120 m<sup>3</sup>/s).  
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,300 ft<sup>3</sup>/s (348 m<sup>3</sup>/s) June 2, gage height, 15.81 ft (4.819 m); minimum, 177 ft<sup>3</sup>/s (5.01 m<sup>3</sup>/s) Apr. 30.

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

| DAY               | OCT     | NOV   | DEC   | JAN    | FEB    | MAR   | APR   | MAY   | JUN    | JUL   | AUG   | SEP   |
|-------------------|---------|-------|-------|--------|--------|-------|-------|-------|--------|-------|-------|-------|
| 1                 | 3470    | 1110  | 416   | 1460   | 3180   | 1380  | 999   | 207   | 11900  | 4800  | 537   | 771   |
| 2                 | 3530    | 964   | 402   | 1580   | 3890   | 1290  | 899   | 194   | 12200  | 4300  | 644   | 883   |
| 3                 | 3620    | 850   | 386   | 1700   | 5000   | 1210  | 831   | 188   | 12000  | 4200  | 742   | 1160  |
| 4                 | 3370    | 765   | 376   | 1860   | 6670   | 1130  | 785   | 218   | 11300  | 4300  | 840   | 1730  |
| 5                 | 3000    | 700   | 366   | 2050   | 8250   | 1060  | 754   | 246   | 10400  | 4500  | 1100  | 1830  |
| 6                 | 2620    | 640   | 356   | 2310   | 9460   | 985   | 750   | 257   | 9110   | 5000  | 1480  | 1630  |
| 7                 | 2270    | 590   | 352   | 2620   | 10000  | 914   | 762   | 287   | 7920   | 5000  | 1870  | 1440  |
| 8                 | 1980    | 543   | 356   | 3000   | 9970   | 851   | 756   | 331   | 6770   | 4600  | 2170  | 1400  |
| 9                 | 1780    | 501   | 386   | 3440   | 9590   | 823   | 739   | 359   | 5610   | 4200  | 2220  | 1530  |
| 10                | 1630    | 472   | 420   | 3950   | 9020   | 791   | 709   | 442   | 4440   | 3800  | 2180  | 1820  |
| 11                | 1540    | 458   | 454   | 4490   | 8430   | 762   | 664   | 593   | 3510   | 3400  | 2300  | 2140  |
| 12                | 1520    | 471   | 500   | 4990   | 7820   | 750   | 608   | 796   | 2770   | 3500  | 2730  | 2430  |
| 13                | 1590    | 492   | 525   | 5340   | 7230   | 737   | 553   | 977   | 2170   | 3600  | 3110  | 2650  |
| 14                | 1740    | 487   | 513   | 5490   | 6640   | 716   | 518   | 1100  | 1670   | 3800  | 3190  | 3040  |
| 15                | 1980    | 503   | 486   | 5480   | 5970   | 705   | 495   | 1190  | 1260   | 3800  | 2980  | 3460  |
| 16                | 2330    | 557   | 458   | 5380   | 5200   | 751   | 464   | 1310  | 947    | 3500  | 2800  | 3640  |
| 17                | 2790    | 597   | 438   | 5330   | 4400   | 932   | 459   | 1520  | 750    | 3000  | 2770  | 3600  |
| 18                | 3270    | 613   | 456   | 5270   | 3690   | 1040  | 442   | 1760  | 711    | 2600  | 2820  | 3490  |
| 19                | 3620    | 620   | 484   | 5190   | 3130   | 1160  | 407   | 2080  | 927    | 2000  | 3030  | 3370  |
| 20                | 3690    | 648   | 604   | 5010   | 2680   | 1290  | 373   | 2450  | 1370   | 1650  | 3600  | 3230  |
| 21                | 3450    | 697   | 772   | 4710   | 2320   | 1400  | 343   | 2800  | 1750   | 1400  | 4350  | 3060  |
| 22                | 3050    | 730   | 883   | 4300   | 2040   | 1470  | 316   | 3150  | 2110   | 1200  | 5070  | 2860  |
| 23                | 2650    | 733   | 937   | 3860   | 1830   | 1530  | 289   | 3620  | 2500   | 1080  | 5040  | 2750  |
| 24                | 2320    | 691   | 947   | 3420   | 1700   | 1590  | 266   | 4230  | 2700   | 944   | 4110  | 2730  |
| 25                | 2070    | 625   | 940   | 3020   | 1620   | 1650  | 248   | 4920  | 3000   | 792   | 3020  | 2880  |
| 26                | 1920    | 556   | 958   | 2670   | 1580   | 1690  | 231   | 5740  | 3600   | 641   | 2170  | 3010  |
| 27                | 1810    | 513   | 986   | 2420   | 1570   | 1670  | 215   | 6830  | 4600   | 530   | 1580  | 3060  |
| 28                | 1710    | 478   | 1050  | 2290   | 1520   | 1590  | 202   | 8320  | 5800   | 474   | 1200  | 2900  |
| 29                | 1610    | 452   | 1140  | 2280   | 1450   | 1450  | 190   | 9740  | 5800   | 481   | 977   | 2570  |
| 30                | 1460    | 434   | 1230  | 2390   | ---    | 1280  | 182   | 10600 | 5400   | 503   | 852   | 2190  |
| 31                | 1280    | ---   | 1320  | 2690   | ---    | 1130  | ---   | 11300 | ---    | 505   | 837   | ---   |
| TOTAL             | 74670   | 18490 | 19897 | 109990 | 145850 | 35727 | 15449 | 87755 | 144995 | 84100 | 72319 | 73254 |
| MEAN              | 2409    | 616   | 642   | 3548   | 5029   | 1152  | 515   | 2831  | 4833   | 2713  | 2333  | 2442  |
| MAX               | 3690    | 1110  | 1320  | 5490   | 10000  | 1690  | 999   | 11300 | 12200  | 5000  | 5070  | 3640  |
| MIN               | 1280    | 434   | 352   | 1460   | 1450   | 705   | 182   | 188   | 711    | 474   | 537   | 771   |
| CFSM              | .86     | .22   | .23   | 1.27   | 1.80   | .41   | .18   | 1.01  | 1.73   | .97   | .84   | .88   |
| IN.               | 1.00    | .25   | .27   | 1.47   | 1.94   | .48   | .21   | 1.17  | 1.93   | 1.12  | .96   | .98   |
| CAL YR 1975 TOTAL | 1122869 | MEAN  | 3076  | MAX    | 17600  | MIN   | 352   | CFSM  | 1.10   | IN    | 14.97 |       |
| WTR YR 1976 TOTAL | 882496  | MEAN  | 2411  | MAX    | 12200  | MIN   | 182   | CFSM  | .86    | IN    | 11.77 |       |

NOTE.--No gage-height record June 24 to July 20.

## SATILLA RIVER BASIN

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 September 1976.

WATER TEMPERATURES: November 1974 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 80 micromhos Jan. 16, 1976; minimum recorded, 32 micromhos July 10, 1976.

WATER TEMPERATURES: Maximum, 31.0°C July 29 to Aug. 2, 1976; minimum, 6.5°C Jan. 19-21, 1976.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 80 micromhos Jan. 16; minimum, 32 micromhos July 10.

WATER TEMPERATURES: Maximum, 31.0°C July 29 to Aug. 2; minimum, 6.5°C Jan. 19-21.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT   |      |                                               |                                                            |               |                             |                                    |
| 21... | 1745 | 3380                                          | 46                                                         | --            | 19.0                        | 6.7                                |
| DEC   |      |                                               |                                                            |               |                             |                                    |
| 09... | 1510 | 394                                           | 50                                                         | 5.9           | 15.5                        | 7.5                                |
| 29... | 1530 | 1160                                          | 56                                                         | --            | 10.0                        | 8.5                                |
| FEB   |      |                                               |                                                            |               |                             |                                    |
| 03... | 1530 | 5200                                          | 37                                                         | 4.7           | 11.0                        | 9.0                                |
| 25... | 0840 | 1630                                          | 44                                                         | 5.3           | 14.5                        | 7.5                                |
| APR   |      |                                               |                                                            |               |                             |                                    |
| 06... | 1645 | 754                                           | --                                                         | 5.8           | 25.0                        | 7.6                                |
| 27... | 1645 | 212                                           | 51                                                         | 5.7           | 23.5                        | 8.8                                |
| MAY   |      |                                               |                                                            |               |                             |                                    |
| 18... | 1530 | 1790                                          | 40                                                         | 4.7           | 24.0                        | 5.5                                |
| JUN   |      |                                               |                                                            |               |                             |                                    |
| 07... | 1530 | 7930                                          | 41                                                         | 4.7           | 22.0                        | 5.9                                |
| JUL   |      |                                               |                                                            |               |                             |                                    |
| 05... | 1730 | 4500                                          | 39                                                         | 4.6           | 25.0                        | 4.2                                |
| AUG   |      |                                               |                                                            |               |                             |                                    |
| 09... | 1645 | 2230                                          | 40                                                         | --            | 27.0                        | --                                 |
| 30... | 1530 | 830                                           | 45                                                         | 4.9           | 27.0                        | 4.5                                |

| DATE  | DIS-<br>SOLVED<br>SILICA<br>(SI02)<br>(MG/L) | TOTAL<br>IRON<br>(FE)<br>(UG/L) | DIS-<br>SOLVED<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) |
|-------|----------------------------------------------|---------------------------------|------------------------------------------|-------------------------------------------|----------------------------------------------------|--------------------------------------------------|---------------------------------------------------------|--------------------------------------------|--------------------------------------------------------|
| OCT   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |                                                        |
| 21... | --                                           | 1300                            | 850                                      | 30                                        | 30                                                 | --                                               | --                                                      | --                                         | --                                                     |
| DEC   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |                                                        |
| 09... | --                                           | --                              | 500                                      | --                                        | 20                                                 | --                                               | --                                                      | --                                         | --                                                     |
| 29... | 9.0                                          | --                              | --                                       | --                                        | --                                                 | 4.0                                              | 1.0                                                     | 4.4                                        | 1.4                                                    |
| FEB   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |                                                        |
| 03... | --                                           | 790                             | 470                                      | 40                                        | 30                                                 | --                                               | --                                                      | --                                         | --                                                     |
| 25... | 6.0                                          | --                              | --                                       | --                                        | --                                                 | 1.2                                              | .8                                                      | 4.0                                        | 1.3                                                    |
| APR   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |                                                        |
| 06... | --                                           | 850                             | 390                                      | 20                                        | 10                                                 | --                                               | --                                                      | --                                         | --                                                     |
| 27... | 7.9                                          | --                              | --                                       | --                                        | --                                                 | 2.1                                              | .7                                                      | 5.5                                        | 1.2                                                    |
| MAY   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |                                                        |
| 18... | 6.0                                          | --                              | --                                       | --                                        | --                                                 | 2.2                                              | .8                                                      | 4.3                                        | 1.2                                                    |
| JUN   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |                                                        |
| 07... | 5.9                                          | --                              | --                                       | --                                        | --                                                 | 1.4                                              | .4                                                      | 3.0                                        | 1.2                                                    |
| JUL   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |                                                        |
| 05... | --                                           | 1400                            | 1100                                     | 30                                        | 20                                                 | --                                               | --                                                      | --                                         | --                                                     |
| AUG   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |                                                        |
| 09... | 6.6                                          | --                              | --                                       | --                                        | --                                                 | 1.7                                              | .6                                                      | 3.2                                        | 1.0                                                    |
| 30... | 9.1                                          | --                              | --                                       | --                                        | --                                                 | 2.3                                              | .8                                                      | 4.0                                        | 1.0                                                    |

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE      | BICARBONATE<br>(HCO <sub>3</sub> )<br>(MG/L) | CARBONATE<br>(CO <sub>3</sub> )<br>(MG/L) | ALKALINITY<br>AS<br>CACO <sub>3</sub><br>(MG/L) | CARBON<br>DIOXIDE<br>(CO <sub>2</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO <sub>4</sub> )<br>(MG/L) | DIS-<br>SOLVED<br>CHLORIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUORIDE<br>(F)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|-----------|----------------------------------------------|-------------------------------------------|-------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------|----------------------------------------------|---------------------------------------------|------------------------------------------------------|----------------------------------------------------------|
| OCT 21... | --                                           | --                                        | --                                              | --                                                | --                                                        | --                                           | --                                          | .01                                                  | .72                                                      |
| DEC 09... | --                                           | --                                        | --                                              | --                                                | --                                                        | --                                           | --                                          | .18                                                  | .54                                                      |
| 29...     | 2                                            | --                                        | 2                                               | --                                                | 5.3                                                       | 8.9                                          | .1                                          | .06                                                  | .20                                                      |
| FEB 03... | --                                           | --                                        | 0                                               | --                                                | --                                                        | --                                           | --                                          | <.02                                                 | --                                                       |
| 25...     | 0                                            | 0                                         | 0                                               | .0                                                | 4.4                                                       | 7.5                                          | .1                                          | .06                                                  | .68                                                      |
| APR 06... | --                                           | --                                        | --                                              | --                                                | --                                                        | --                                           | --                                          | .17                                                  | .67                                                      |
| 27...     | 8                                            | 0                                         | 7                                               | 26                                                | 5.5                                                       | 8.8                                          | .1                                          | .18                                                  | .64                                                      |
| MAY 18... | 2                                            | 0                                         | 2                                               | 64                                                | 7.1                                                       | 6.4                                          | .3                                          | .07                                                  | .67                                                      |
| JUN 07... | 0                                            | 0                                         | 0                                               | .0                                                | 7.1                                                       | 6.3                                          | .3                                          | .00                                                  | .75                                                      |
| JUL 05... | --                                           | --                                        | --                                              | --                                                | --                                                        | --                                           | --                                          | .02                                                  | 1.0                                                      |
| AUG 09... | 2                                            | --                                        | 2                                               | --                                                | 7.9                                                       | 5.2                                          | .2                                          | .04                                                  | .69                                                      |
| 30...     | 7                                            | 0                                         | 6                                               | 141                                               | 5.9                                                       | 6.3                                          | .4                                          | .16                                                  | .63                                                      |

| DATE      | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO <sub>3</sub> )<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | TUR-<br>BID-<br>ITY<br>(JTU) | TOTAL<br>PHYTO-<br>PLANK-<br>TON<br>(CELLS<br>PER<br>ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|-----------|-----------------------------------------|--------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|-------------------------------------|---------------------------------------------------|------------------------------|----------------------------------------------------------|---------------------------------------------|
| OCT 21... | .73                                     | 3.2                                                    | .04                                       | --                                                               | --                                  | --                                                | --                           | 72                                                       | 24                                          |
| DEC 09... | .72                                     | 3.2                                                    | .11                                       | --                                                               | --                                  | --                                                | --                           | 87                                                       | --                                          |
| 29...     | .26                                     | 1.2                                                    | .06                                       | 71                                                               | 14                                  | 12                                                | 3                            | 140                                                      | --                                          |
| FEB 03... | --                                      | --                                                     | .04                                       | --                                                               | 6                                   | --                                                | 10                           | 28                                                       | 19                                          |
| 25...     | .74                                     | 3.3                                                    | .04                                       | 40                                                               | 6                                   | 6                                                 | 4                            | 140                                                      | --                                          |
| APR 06... | .84                                     | 3.7                                                    | .11                                       | --                                                               | --                                  | --                                                | --                           | 4300                                                     | 15                                          |
| 27...     | .82                                     | 3.6                                                    | .13                                       | 61                                                               | 8                                   | 2                                                 | 4                            | 51000                                                    | --                                          |
| MAY 18... | .74                                     | 3.3                                                    | .07                                       | 56                                                               | 9                                   | 7                                                 | 7                            | 720                                                      | --                                          |
| JUN 07... | .75                                     | 3.3                                                    | .02                                       | 87                                                               | 5                                   | 5                                                 | 4                            | 32                                                       | --                                          |
| JUL 05... | 1.0                                     | 4.5                                                    | .08                                       | --                                                               | --                                  | --                                                | --                           | 97                                                       | 7.4                                         |
| AUG 09... | .73                                     | 3.2                                                    | .05                                       | 68                                                               | 7                                   | 5                                                 | 4                            | 470                                                      | --                                          |
| 30...     | .79                                     | 3.5                                                    | .06                                       | 65                                                               | 9                                   | 3                                                 | 6                            | 260                                                      | --                                          |

| DATE      | TOTAL<br>ARSENIC<br>(AS)<br>(UG/L) | DIS-<br>SOLVED<br>ARSENIC<br>(AS)<br>(UG/L) | TOTAL<br>CAD-<br>MIUM<br>(CD)<br>(UG/L) | DIS-<br>SOLVED<br>CAD-<br>MIUM<br>(CD)<br>(UG/L) | TOTAL<br>CHRO-<br>MIUM<br>(CR)<br>(UG/L) | DIS-<br>SOLVED<br>CHRO-<br>MIUM<br>(CR)<br>(UG/L) | TOTAL<br>COBALT<br>(CO)<br>(UG/L) | DIS-<br>SOLVED<br>COBALT<br>(CO)<br>(UG/L) | TOTAL<br>COPPER<br>(CU)<br>(UG/L) |
|-----------|------------------------------------|---------------------------------------------|-----------------------------------------|--------------------------------------------------|------------------------------------------|---------------------------------------------------|-----------------------------------|--------------------------------------------|-----------------------------------|
| OCT 21... | 0                                  | 0                                           | 1                                       | 1                                                | <10                                      | 0                                                 | 0                                 | 0                                          | 6                                 |
| DEC 09... | --                                 | 0                                           | --                                      | --                                               | --                                       | --                                                | --                                | --                                         | --                                |
| FEB 03... | --                                 | 0                                           | 1                                       | 0                                                | 10                                       | 0                                                 | 0                                 | 0                                          | 5                                 |
| APR 06... | --                                 | 0                                           | 0                                       | 0                                                | 10                                       | 0                                                 | 0                                 | 0                                          | 6                                 |
| JUL 05... | --                                 | 0                                           | 0                                       | 0                                                | 20                                       | 0                                                 | 0                                 | 0                                          | 6                                 |

## SATILLA RIVER BASIN

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | DIS-<br>SOLVED<br>COPPER<br>(CU)<br>(UG/L) | TOTAL<br>LEAD<br>(PB)<br>(UG/L) | DIS-<br>SOLVED<br>LEAD<br>(PB)<br>(UG/L) | TOTAL<br>MERCURY<br>(HG)<br>(UG/L) | DIS-<br>SOLVED<br>MERCURY<br>(HG)<br>(UG/L) | TOTAL<br>SELE-<br>NIUM<br>(SE)<br>(UG/L) | DIS-<br>SOLVED<br>SELE-<br>NIUM<br>(SE)<br>(UG/L) | TOTAL<br>ZINC<br>(ZN)<br>(UG/L) | DIS-<br>SOLVED<br>ZINC<br>(ZN)<br>(UG/L) |
|--------------|--------------------------------------------|---------------------------------|------------------------------------------|------------------------------------|---------------------------------------------|------------------------------------------|---------------------------------------------------|---------------------------------|------------------------------------------|
| OCT<br>21... | 0                                          | 4                               | 11                                       | .0                                 | .0                                          | --                                       | 0                                                 | 30                              | 40                                       |
| DEC<br>09... | --                                         | --                              | --                                       | --                                 | .3                                          | --                                       | --                                                | --                              | 0                                        |
| FEB<br>03... | 5                                          | 8                               | 8                                        | .0                                 | .0                                          | 0                                        | 0                                                 | 70                              | 10                                       |
| APR<br>06... | 2                                          | 10                              | 0                                        | .1                                 | .0                                          | 0                                        | 0                                                 | 20                              | 10                                       |
| JUL<br>05... | 7                                          | 12                              | 5                                        | --                                 | .0                                          | --                                       | 0                                                 | 30                              | 20                                       |

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH     |     |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-----------|-----|
|       | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | ---     | --- | 40       | 37  | 52       | 50  | 56      | 55  | 48       | 45  | 40        | 39  |
| 2     | ---     | --- | 39       | 38  | 52       | 50  | 59      | 57  | 45       | 43  | 41        | 39  |
| 3     | ---     | --- | 40       | 39  | 53       | 49  | 62      | 59  | 43       | 40  | 40        | 38  |
| 4     | 40      | 39  | 41       | 39  | 52       | 49  | 64      | 63  | 43       | 41  | 40        | 38  |
| 5     | 41      | 39  | 41       | 40  | 53       | 50  | 66      | 64  | 43       | 39  | 39        | 37  |
| 6     | 42      | 40  | 42       | 41  | 52       | 50  | 67      | 65  | 41       | 39  | 41        | 38  |
| 7     | 43      | 41  | 42       | 41  | 52       | 50  | 69      | 66  | 42       | 40  | 42        | 41  |
| 8     | 43      | 41  | 43       | 41  | 52       | 51  | 69      | 68  | 44       | 41  | 44        | 42  |
| 9     | 43      | 41  | 43       | 42  | 53       | 51  | 72      | 70  | 42       | 39  | 44        | 42  |
| 10    | 44      | 42  | 44       | 42  | 53       | 50  | 73      | 70  | 42       | 39  | 45        | 43  |
| 11    | 44      | 42  | 45       | 43  | 53       | 50  | 75      | 72  | 41       | 39  | 46        | 44  |
| 12    | 45      | 42  | 46       | 44  | 52       | 49  | 75      | 74  | 40       | 38  | 46        | 45  |
| 13    | 45      | 42  | 46       | 45  | 52       | 49  | 77      | 75  | 40       | 37  | 46        | 44  |
| 14    | 44      | 42  | 47       | 46  | 53       | 50  | 79      | 76  | 40       | 36  | 47        | 46  |
| 15    | 44      | 42  | 47       | 44  | 54       | 52  | 79      | 77  | 39       | 36  | 47        | 46  |
| 16    | 45      | 43  | 46       | 44  | 54       | 52  | 80      | 78  | 39       | 36  | 48        | 46  |
| 17    | 49      | 43  | 48       | 46  | 53       | 52  | 77      | 76  | 39       | 36  | 47        | 45  |
| 18    | 49      | 43  | 49       | 47  | 54       | 52  | 76      | 74  | 39       | 36  | 47        | 45  |
| 19    | 45      | 43  | 49       | 47  | 56       | 53  | 74      | 71  | 38       | 35  | 47        | 44  |
| 20    | 45      | 42  | 50       | 46  | 55       | 51  | 71      | 68  | 39       | 37  | 47        | 46  |
| 21    | 45      | 42  | 48       | 46  | 55       | 52  | 69      | 67  | 38       | 36  | 48        | 47  |
| 22    | 42      | 39  | 52       | 49  | 57       | 54  | 67      | 64  | 39       | 37  | 49        | 47  |
| 23    | 39      | 37  | 53       | 51  | 58       | 54  | 65      | 62  | 40       | 38  | 49        | 48  |
| 24    | 38      | 37  | 54       | 50  | 57       | 53  | 62      | 60  | 41       | 39  | 49        | 47  |
| 25    | 38      | 36  | 52       | 50  | 54       | 51  | 60      | 58  | 42       | 38  | 50        | 48  |
| 26    | 38      | 36  | 53       | 49  | 53       | 52  | 57      | 55  | 40       | 38  | 51        | 49  |
| 27    | 39      | 36  | 51       | 49  | 54       | 51  | 56      | 54  | 40       | 38  | 51        | 49  |
| 28    | 38      | 37  | 52       | 49  | 55       | 52  | 55      | 53  | 42       | 38  | 51        | 49  |
| 29    | 38      | 37  | 51       | 49  | 54       | 52  | 53      | 49  | 41       | 38  | 51        | 49  |
| 30    | 38      | 36  | 50       | 49  | 54       | 52  | 50      | 48  | ---      | --- | 52        | 49  |
| 31    | 39      | 37  | ---      | --- | 55       | 53  | 48      | 46  | ---      | --- | 53        | 50  |
| MONTH | 49      | 36  | 54       | 37  | 58       | 49  | 80      | 46  | 48       | 35  | 53        | 37  |
| DAY   | APRIL   |     | MAY      |     | JUNE     |     | JULY    |     | AUGUST   |     | SEPTEMBER |     |
|       | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | 54      | 51  | 63       | 58  | 54       | 52  | 39      | 36  | ---      | --- | 43        | 41  |
| 2     | 54      | 50  | 62       | 59  | 53       | 50  | 38      | 36  | ---      | --- | 43        | 40  |
| 3     | 53      | 50  | 64       | 61  | 52       | 50  | 40      | 36  | ---      | --- | 40        | 37  |
| 4     | 54      | 51  | 64       | 62  | 51       | 49  | 38      | 36  | ---      | --- | 39        | 36  |
| 5     | 54      | 51  | 65       | 62  | 50       | 48  | 38      | 36  | ---      | --- | 38        | 36  |
| 6     | 55      | 53  | 68       | 63  | 49       | 47  | 38      | 34  | ---      | --- | 39        | 37  |
| 7     | 54      | 53  | 78       | 69  | 48       | 46  | 36      | 33  | ---      | --- | 41        | 38  |
| 8     | 54      | 53  | 78       | 73  | 48       | 46  | 36      | 33  | ---      | --- | 41        | 39  |
| 9     | 54      | 53  | 78       | 73  | 48       | 45  | 36      | 33  | ---      | --- | 43        | 39  |
| 10    | 56      | 53  | 79       | 68  | 48       | 42  | 35      | 32  | ---      | --- | 42        | 39  |
| 11    | 59      | 55  | 73       | 68  | 44       | 41  | 35      | 33  | ---      | --- | 43        | 41  |
| 12    | 60      | 57  | 75       | 68  | 43       | 41  | 37      | 33  | ---      | --- | 45        | 42  |
| 13    | 61      | 59  | 72       | 67  | 44       | 41  | ---     | --- | 40       | 38  | 45        | 43  |
| 14    | 61      | 60  | 70       | 66  | 43       | 41  | ---     | --- | 41       | 32  | 44        | 41  |
| 15    | 60      | 59  | 66       | 44  | 44       | 42  | ---     | --- | 42       | 35  | 43        | 42  |
| 16    | 60      | 57  | 47       | 42  | 45       | 40  | ---     | --- | 43       | 40  | 44        | 41  |
| 17    | 59      | 56  | 51       | 40  | 44       | 34  | ---     | --- | 43       | 41  | 44        | 42  |
| 18    | 59      | 56  | 50       | 43  | 44       | 34  | ---     | --- | 42       | 39  | 45        | 42  |
| 19    | 60      | 58  | 52       | 44  | 45       | 39  | ---     | --- | 40       | 37  | 45        | 41  |
| 20    | 60      | 58  | 54       | 44  | 40       | 37  | ---     | --- | 38       | 36  | 44        | 41  |
| 21    | 61      | 58  | 59       | 37  | 42       | 39  | 45      | 39  | 37       | 36  | 43        | 41  |
| 22    | 61      | 59  | 46       | 36  | 43       | 41  | 42      | 38  | 39       | 37  | 43        | 39  |
| 23    | 61      | 58  | 63       | 59  | 42       | 40  | ---     | --- | 39       | 38  | 43        | 41  |
| 24    | 59      | 56  | 62       | 61  | 42       | 39  | ---     | --- | 40       | 38  | 43        | 39  |
| 25    | 58      | 55  | 61       | 59  | 41       | 38  | ---     | --- | 40       | 37  | 43        | 41  |
| 26    | 56      | 54  | 60       | 57  | 40       | 38  | ---     | --- | 40       | 38  | 43        | 39  |
| 27    | 58      | 56  | 59       | 57  | 40       | 37  | ---     | --- | 40       | 38  | 41        | 39  |
| 28    | 59      | 56  | 59       | 58  | 39       | 36  | ---     | --- | 40       | 39  | 41        | 38  |
| 29    | 61      | 59  | 58       | 57  | 38       | 35  | ---     | --- | 41       | 39  | 42        | 39  |
| 30    | 62      | 61  | 58       | 56  | 39       | 37  | ---     | --- | 41       | 39  | 42        | 40  |
| 31    | ---     | --- | 56       | 54  | ---      | --- | ---     | --- | 42       | 40  | ---       | --- |
| MONTH | 62      | 50  | 79       | 36  | 54       | 34  | ---     | --- | ---      | --- | 45        | 36  |

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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



## ST. MARYS RIVER BASIN

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## 02228500 NORTH PRONG ST. MARYS RIVER AT MONIAC, GA.

LOCATION.--Lat 30°31'03", long 82°13'50", in NW quarter sec. 8, T.1 N., R.21 E., Baker County, Fla., 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 mi<sup>2</sup> (410 km<sup>2</sup>), 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 (244 m) downstream at datum 3.22 ft (0.981 m) higher.

REMARKS.--Records good.

AVERAGE DISCHARGE.--31 years (1921-23, 1927-29, 1932-33, 1950-76), 162 ft<sup>3</sup>/s (4.59 m<sup>3</sup>/s), 13.75 in/yr (349.2 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,600 ft<sup>3</sup>/s (329 m<sup>3</sup>/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, 1,040 ft<sup>3</sup>/s (29.5 m<sup>3</sup>/s) Sept. 26, gage height, 11.97 ft (3.648 m); minimum, 0.90 ft<sup>3</sup>/s (0.025 m<sup>3</sup>/s) May 7, gage height, 4.53 ft (1.381 m).

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

| DAY         | OCT   | NOV     | DEC  | JAN  | FEB  | MAR  | APR   | MAY    | JUN    | JUL  | AUG  | SEP   |
|-------------|-------|---------|------|------|------|------|-------|--------|--------|------|------|-------|
| 1           | 85    | 52      | 28   | 62   | 64   | 29   | 62    | 3.2    | 51     | 212  | 15   | 119   |
| 2           | 78    | 49      | 29   | 58   | 101  | 28   | 53    | 3.5    | 47     | 188  | 22   | 114   |
| 3           | 76    | 47      | 28   | 53   | 98   | 27   | 47    | 3.0    | 42     | 164  | 51   | 95    |
| 4           | 83    | 45      | 28   | 51   | 88   | 26   | 43    | 2.0    | 37     | 153  | 217  | 96    |
| 5           | 80    | 43      | 27   | 47   | 82   | 25   | 39    | 1.5    | 33     | 127  | 346  | 108   |
| 6           | 77    | 41      | 27   | 44   | 77   | 24   | 37    | 1.1    | 30     | 104  | 250  | 103   |
| 7           | 96    | 41      | 28   | 43   | 73   | 23   | 40    | 1.0    | 26     | 98   | 172  | 278   |
| 8           | 152   | 40      | 27   | 72   | 67   | 21   | 39    | 8.0    | 23     | 100  | 131  | 648   |
| 9           | 192   | 40      | 29   | 117  | 61   | 82   | 36    | 8.8    | 19     | 88   | 110  | 637   |
| 10          | 202   | 40      | 31   | 112  | 56   | 195  | 34    | 7.0    | 16     | 97   | 123  | 573   |
| 11          | 189   | 40      | 30   | 99   | 52   | 183  | 31    | 5.3    | 13     | 151  | 149  | 559   |
| 12          | 168   | 45      | 30   | 92   | 50   | 142  | 29    | 3.9    | 10     | 117  | 146  | 485   |
| 13          | 149   | 47      | 29   | 85   | 47   | 120  | 26    | 2.9    | 7.4    | 79   | 159  | 401   |
| 14          | 131   | 45      | 29   | 78   | 45   | 110  | 24    | 2.4    | 5.5    | 60   | 209  | 390   |
| 15          | 117   | 42      | 28   | 72   | 43   | 101  | 23    | 10     | 4.1    | 48   | 243  | 406   |
| 16          | 105   | 39      | 28   | 66   | 42   | 96   | 21    | 35     | 26     | 40   | 220  | 363   |
| 17          | 104   | 38      | 27   | 66   | 40   | 119  | 19    | 32     | 256    | 35   | 206  | 308   |
| 18          | 138   | 37      | 30   | 65   | 38   | 115  | 17    | 29     | 342    | 43   | 193  | 254   |
| 19          | 135   | 36      | 28   | 59   | 41   | 98   | 15    | 23     | 304    | 36   | 164  | 210   |
| 20          | 117   | 36      | 27   | 55   | 44   | 85   | 13    | 19     | 211    | 31   | 149  | 174   |
| 21          | 103   | 35      | 27   | 52   | 42   | 76   | 11    | 15     | 191    | 26   | 147  | 147   |
| 22          | 94    | 34      | 27   | 49   | 40   | 70   | 14    | 16     | 157    | 26   | 135  | 125   |
| 23          | 87    | 33      | 26   | 46   | 38   | 68   | 11    | 72     | 127    | 56   | 117  | 110   |
| 24          | 81    | 32      | 25   | 44   | 36   | 63   | 8.6   | 178    | 128    | 53   | 102  | 146   |
| 25          | 76    | 31      | 25   | 43   | 34   | 57   | 7.2   | 206    | 105    | 44   | 91   | 668   |
| 26          | 73    | 30      | 34   | 42   | 33   | 52   | 6.6   | 211    | 83     | 37   | 84   | 1020  |
| 27          | 70    | 30      | 40   | 49   | 32   | 55   | 5.3   | 164    | 69     | 33   | 83   | 998   |
| 28          | 66    | 29      | 38   | 69   | 31   | 97   | 4.3   | 126    | 62     | 29   | 77   | 881   |
| 29          | 63    | 29      | 37   | 66   | 30   | 94   | 3.5   | 103    | 169    | 24   | 63   | 749   |
| 30          | 61    | 29      | 42   | 61   | ---  | 81   | 2.9   | 81     | 244    | 20   | 54   | 626   |
| 31          | 57    | ---     | 51   | 57   | ---  | 71   | ---   | 64     | ---    | 17   | 89   | ---   |
| TOTAL       | 3305  | 1155    | 940  | 1974 | 1525 | 2433 | 722.4 | 1437.6 | 2838.0 | 2336 | 4317 | 11791 |
| MEAN        | 107   | 38.5    | 30.3 | 63.7 | 52.6 | 78.5 | 24.1  | 46.4   | 94.6   | 75.4 | 139  | 393   |
| MAX         | 202   | 52      | 51   | 117  | 101  | 195  | 62    | 211    | 342    | 212  | 346  | 1020  |
| MIN         | 57    | 29      | 25   | 42   | 30   | 21   | 2.9   | 1.0    | 4.1    | 17   | 15   | 95    |
| CFSM        | .67   | .24     | .19  | .40  | .33  | .49  | .15   | .29    | .59    | .47  | .87  | 2.46  |
| IN.         | .77   | .27     | .22  | .46  | .35  | .57  | .17   | .33    | .66    | .54  | 1.00 | 2.74  |
| CAL YR 1975 | TOTAL | 86804.0 | MEAN | 238  | MAX  | 2060 | MIN   | 25     | CFSM   | 1.49 | IN   | 20.18 |
| WTR YR 1976 | TOTAL | 34774.0 | MEAN | 95.0 | MAX  | 1020 | MIN   | 1.0    | CFSM   | .59  | IN   | 8.08  |

02231000 ST MARYS RIVER NEAR MACCLENNY, FLA.

LOCATION.--Lat 30°21'31", long 82°04'54", in NW quarter sec. 2, T.2 S., R.22 E., Baker County, on right bank 200 ft (61 m) downstream from site of former Stokes Bridge, 1 mi (1.6 km) downstream from confluence of North and South Prongs, 6 mi (9.7 km) northeast of Macclenny, and 100 mi (161 km) upstream from mouth.

DRAINAGE AREA.--700 mi<sup>2</sup> (1,810 km<sup>2</sup>), 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 (61 m) upstream at same datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--50 years, 682 ft<sup>3</sup>/s (19.3 m<sup>3</sup>/s), 13.23 in/yr (336.0 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,100 ft<sup>3</sup>/s (796 m<sup>3</sup>/s) Sept. 25, 1947, maximum gage height, 23.25 ft (7.087 m) Sept. 13, 1964, from floodmark; minimum discharge observed, 12 ft<sup>3</sup>/s (0.34 m<sup>3</sup>/s) May 22, 1932, minimum gage height observed, 0.04 ft (0.012 m) June 4, 5, 1927.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,080 ft<sup>3</sup>/s (58.9 m<sup>3</sup>/s) May 27, gage height, 11.18 ft (3.408 m); minimum, 36 ft<sup>3</sup>/s (1.02 m<sup>3</sup>/s) May 7, gage height, 1.56 ft (0.475 m).

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

| DAY         | OCT   | NOV    | DEC  | JAN  | FEB  | MAR  | APR  | MAY   | JUN   | JUL   | AUG  | SEP   |
|-------------|-------|--------|------|------|------|------|------|-------|-------|-------|------|-------|
| 1           | 548   | 158    | 93   | 213  | 276  | 110  | 196  | 48    | 1010  | 487   | 111  | 210   |
| 2           | 489   | 150    | 93   | 230  | 428  | 104  | 188  | 50    | 856   | 494   | 112  | 227   |
| 3           | 431   | 142    | 93   | 211  | 560  | 101  | 178  | 46    | 762   | 503   | 110  | 202   |
| 4           | 383   | 135    | 92   | 189  | 533  | 98   | 154  | 43    | 668   | 519   | 115  | 182   |
| 5           | 357   | 130    | 91   | 175  | 474  | 94   | 135  | 41    | 635   | 479   | 208  | 213   |
| 6           | 331   | 125    | 90   | 165  | 419  | 90   | 122  | 38    | 632   | 425   | 331  | 247   |
| 7           | 324   | 122    | 94   | 156  | 375  | 86   | 115  | 39    | 679   | 362   | 312  | 238   |
| 8           | 367   | 119    | 108  | 192  | 338  | 82   | 116  | 101   | 658   | 341   | 248  | 477   |
| 9           | 432   | 120    | 112  | 338  | 303  | 98   | 117  | 135   | 580   | 384   | 202  | 848   |
| 10          | 456   | 122    | 117  | 420  | 270  | 384  | 112  | 116   | 481   | 457   | 180  | 955   |
| 11          | 437   | 136    | 115  | 349  | 243  | 573  | 105  | 99    | 382   | 508   | 182  | 945   |
| 12          | 401   | 146    | 108  | 350  | 220  | 513  | 100  | 82    | 298   | 571   | 216  | 914   |
| 13          | 363   | 160    | 102  | 322  | 201  | 434  | 94   | 66    | 232   | 547   | 270  | 814   |
| 14          | 329   | 167    | 98   | 298  | 185  | 403  | 87   | 59    | 180   | 503   | 311  | 739   |
| 15          | 299   | 159    | 95   | 276  | 171  | 384  | 83   | 165   | 146   | 439   | 324  | 753   |
| 16          | 273   | 146    | 93   | 254  | 160  | 352  | 85   | 695   | 122   | 367   | 324  | 745   |
| 17          | 258   | 138    | 90   | 236  | 150  | 409  | 81   | 934   | 188   | 302   | 311  | 665   |
| 18          | 335   | 132    | 89   | 229  | 140  | 459  | 75   | 863   | 502   | 249   | 356  | 577   |
| 19          | 412   | 127    | 88   | 223  | 143  | 406  | 68   | 717   | 578   | 223   | 454  | 496   |
| 20          | 389   | 122    | 84   | 206  | 169  | 340  | 62   | 543   | 499   | 202   | 407  | 424   |
| 21          | 338   | 118    | 89   | 191  | 188  | 296  | 57   | 492   | 447   | 175   | 362  | 360   |
| 22          | 301   | 114    | 88   | 178  | 173  | 264  | 54   | 425   | 408   | 158   | 310  | 309   |
| 23          | 274   | 110    | 88   | 167  | 168  | 239  | 51   | 639   | 378   | 168   | 260  | 270   |
| 24          | 251   | 107    | 86   | 156  | 166  | 222  | 50   | 1300  | 359   | 205   | 219  | 363   |
| 25          | 234   | 105    | 85   | 147  | 156  | 204  | 47   | 1730  | 307   | 214   | 186  | 693   |
| 26          | 220   | 103    | 91   | 140  | 144  | 184  | 62   | 1970  | 246   | 193   | 163  | 1400  |
| 27          | 207   | 100    | 123  | 163  | 134  | 169  | 88   | 2070  | 200   | 165   | 149  | 1580  |
| 28          | 196   | 99     | 137  | 305  | 125  | 186  | 78   | 1910  | 173   | 144   | 141  | 1390  |
| 29          | 186   | 96     | 126  | 372  | 117  | 254  | 62   | 1670  | 299   | 129   | 129  | 1180  |
| 30          | 177   | 95     | 129  | 332  | ---  | 256  | 52   | 1450  | 452   | 114   | 120  | 988   |
| 31          | 169   | ---    | 166  | 287  | ---  | 226  | ---  | 1230  | ---   | 109   | 137  | ---   |
| TOTAL       | 10167 | 3803   | 3158 | 7510 | 7129 | 8020 | 2874 | 19816 | 13357 | 10136 | 7260 | 19404 |
| MEAN        | 328   | 127    | 102  | 242  | 246  | 259  | 95.8 | 639   | 445   | 327   | 234  | 647   |
| MAX         | 548   | 167    | 166  | 420  | 560  | 573  | 196  | 2070  | 1010  | 571   | 454  | 1580  |
| MIN         | 169   | 95     | 85   | 140  | 117  | 82   | 47   | 38    | 122   | 109   | 110  | 182   |
| CFSM        | .47   | .18    | .15  | .35  | .35  | .37  | .14  | .91   | .64   | .47   | .33  | .92   |
| IN.         | .54   | .20    | .17  | .40  | .38  | .43  | .15  | 1.05  | .71   | .54   | .39  | 1.03  |
| CAL YR 1975 | TOTAL | 263708 | MEAN | 722  | MAX  | 4460 | MIN  | 85    | CFSM  | 1.03  | IN   | 14.01 |
| WTH YR 1976 | TOTAL | 112634 | MEAN | 308  | MAX  | 2070 | MIN  | 38    | CFSM  | .44   | IN   | 5.99  |

02231000 ST. MARYS RIVER NEAR MACCLENNEY, 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.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 204 micromhos Mar. 31, 1974; minimum daily, 25 micromhos Jan. 7, 1975.

WATER TEMPERATURES: Maximum daily, 31.0°C July 28, 1966, several days during August and September 1976; minimum daily, 6.0°C

Jan. 21, 1966, Jan. 17, 19-21, 1968.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum daily, 94 micromhos Jan. 2; minimum daily, 32 micromhos Mar. 10.

WATER TEMPERATURES: Maximum daily, 31.0°C on several days during August and September; minimum daily, 11.0°C Jan. 24.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | TRANS-<br>PAR-<br>ENCY<br>(SECCHI<br>DISK)<br>(IN) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|------------------------------------------------------------|----------------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT   |      |                                               |                                                            |                                                    |               |                             |                                    |
| 16... | 1400 | 270                                           | 38                                                         | 22                                                 | 4.6           | 22.0                        | 8.2                                |
| NOV   |      |                                               |                                                            |                                                    |               |                             |                                    |
| 12... | 1115 | 147                                           | 52                                                         | 30                                                 | 5.7           | 21.5                        | 7.7                                |
| DEC   |      |                                               |                                                            |                                                    |               |                             |                                    |
| 18... | 1330 | 70                                            | 59                                                         | 32                                                 | --            | 15.0                        | 10.4                               |
| JAN   |      |                                               |                                                            |                                                    |               |                             |                                    |
| 22... | 1200 | 160                                           | 45                                                         | 30                                                 | 5.9           | 9.0                         | 8.0                                |
| FEB   |      |                                               |                                                            |                                                    |               |                             |                                    |
| 18... | 1130 | 130                                           | 50                                                         | 40                                                 | 5.4           | 17.0                        | 8.3                                |
| MAR   |      |                                               |                                                            |                                                    |               |                             |                                    |
| 16... | 1200 | 288                                           | 44                                                         | 25                                                 | 5.3           | 18.0                        | 8.7                                |
| APR   |      |                                               |                                                            |                                                    |               |                             |                                    |
| 19... | 1130 | 68                                            | 58                                                         | 27                                                 | 6.2           | 22.0                        | 7.7                                |
| MAY   |      |                                               |                                                            |                                                    |               |                             |                                    |
| 11... | 1230 | 122                                           | 98                                                         | 24                                                 | 6.3           | 21.0                        | 8.0                                |
| JUN   |      |                                               |                                                            |                                                    |               |                             |                                    |
| 09... | 1440 | 578                                           | 63                                                         | 27                                                 | 4.1           | 23.0                        | 7.5                                |
| JUL   |      |                                               |                                                            |                                                    |               |                             |                                    |
| 12... | 1100 | 515                                           | 46                                                         | 24                                                 | 4.5           | 26.0                        | 7.2                                |
| AUG   |      |                                               |                                                            |                                                    |               |                             |                                    |
| 11... | 1800 | 183                                           | 40                                                         | 22                                                 | 5.7           | 27.5                        | 7.1                                |
| SEP   |      |                                               |                                                            |                                                    |               |                             |                                    |
| 07... | 1100 | 198                                           | 36                                                         | 21                                                 | 4.7           | 25.0                        | 6.7                                |

| DATE  | DIS-<br>SOLVED<br>SILICA<br>(SI02)<br>(MG/L) | TOTAL<br>IRON<br>(FE)<br>(UG/L) | DIS-<br>SOLVED<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) |
|-------|----------------------------------------------|---------------------------------|------------------------------------------|-------------------------------------------|----------------------------------------------------|--------------------------------------------------|---------------------------------------------------------|--------------------------------------------|
| OCT   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |
| 16... | 4.3                                          | 480                             | 490                                      | 20                                        | 20                                                 | 3.2                                              | 1.0                                                     | 3.0                                        |
| NOV   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |
| 12... | 6.7                                          | --                              | --                                       | --                                        | --                                                 | --                                               | --                                                      | 3.7                                        |
| DEC   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |
| 18... | 7.9                                          | --                              | --                                       | --                                        | --                                                 | 5.1                                              | 2.1                                                     | 4.3                                        |
| JAN   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |
| 22... | 6.1                                          | 280                             | 290                                      | 0                                         | 30                                                 | 2.9                                              | 1.3                                                     | 4.0                                        |
| FEB   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |
| 18... | 5.4                                          | --                              | --                                       | --                                        | --                                                 | 3.7                                              | 1.5                                                     | 3.8                                        |
| MAR   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |
| 16... | 4.1                                          | --                              | --                                       | --                                        | --                                                 | 2.9                                              | 1.0                                                     | 3.8                                        |
| APR   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |
| 19... | 57                                           | 400                             | 250                                      | 0                                         | 0                                                  | 4.1                                              | 2.0                                                     | 4.4                                        |
| MAY   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |
| 11... | 7.4                                          | --                              | --                                       | --                                        | --                                                 | 4.6                                              | 1.9                                                     | 4.5                                        |
| JUN   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |
| 09... | 3.9                                          | --                              | --                                       | --                                        | --                                                 | 2.2                                              | .4                                                      | 3.3                                        |
| JUL   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |
| 12... | 3.6                                          | 690                             | 590                                      | 20                                        | 10                                                 | 1.8                                              | .2                                                      | 3.0                                        |
| AUG   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |
| 11... | 3.8                                          | --                              | --                                       | --                                        | --                                                 | 2.3                                              | .8                                                      | 3.1                                        |
| SEP   |                                              |                                 |                                          |                                           |                                                    |                                                  |                                                         |                                            |
| 07... | 4.4                                          | --                              | --                                       | --                                        | --                                                 | 4.1                                              | 1.0                                                     | 3.0                                        |

## ST. MARYS RIVER BASIN

02231000 ST. MARYS RIVER NEAR MACCLENNY, FLA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L) | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | TOTAL<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>NITRITE<br>(N)<br>(MG/L) |
|-------|--------------------------------------------------------|--------------------------------------|------------------------------------------|----------------------------------------------|---------------------------------------------------|--------------------------------------------------|-----------------------------------|-----------------------------------|
| OCT   |                                                        |                                      |                                          |                                              |                                                   |                                                  |                                   |                                   |
| 16... | .3                                                     | 10                                   | 8                                        | 5.4                                          | 5.7                                               | .2                                               | .08                               | .01                               |
| NOV   |                                                        |                                      |                                          |                                              |                                                   |                                                  |                                   |                                   |
| 12... | .5                                                     | 14                                   | 11                                       | 5.0                                          | 6.8                                               | .2                                               | .09                               | .01                               |
| DEC   |                                                        |                                      |                                          |                                              |                                                   |                                                  |                                   |                                   |
| 18... | .6                                                     | 19                                   | 16                                       | 3.4                                          | 6.1                                               | .1                                               | .10                               | .03                               |
| JAN   |                                                        |                                      |                                          |                                              |                                                   |                                                  |                                   |                                   |
| 22... | .3                                                     | 10                                   | 8                                        | 4.0                                          | 7.6                                               | .2                                               | .08                               | .02                               |
| FEB   |                                                        |                                      |                                          |                                              |                                                   |                                                  |                                   |                                   |
| 18... | .3                                                     | 10                                   | 8                                        | 3.5                                          | 7.3                                               | .1                                               | .05                               | .01                               |
| MAR   |                                                        |                                      |                                          |                                              |                                                   |                                                  |                                   |                                   |
| 16... | .4                                                     | 4                                    | 3                                        | 4.7                                          | 7.9                                               | .3                                               | .02                               | .01                               |
| APR   |                                                        |                                      |                                          |                                              |                                                   |                                                  |                                   |                                   |
| 19... | .5                                                     | 16                                   | 45                                       | 3.9                                          | 7.1                                               | .2                                               | .10                               | .01                               |
| MAY   |                                                        |                                      |                                          |                                              |                                                   |                                                  |                                   |                                   |
| 11... | .7                                                     | 11                                   | 9                                        | 6.0                                          | 7.0                                               | .2                                               | .10                               | .01                               |
| JUN   |                                                        |                                      |                                          |                                              |                                                   |                                                  |                                   |                                   |
| 09... | .4                                                     | 0                                    | 0                                        | 7.6                                          | 6.6                                               | .2                                               | .00                               | .02                               |
| JUL   |                                                        |                                      |                                          |                                              |                                                   |                                                  |                                   |                                   |
| 12... | .3                                                     | 1                                    | 1                                        | 7.1                                          | 5.9                                               | .3                                               | .02                               | .02                               |
| AUG   |                                                        |                                      |                                          |                                              |                                                   |                                                  |                                   |                                   |
| 11... | .3                                                     | 6                                    | 5                                        | 6.8                                          | 5.7                                               | .2                                               | .04                               | .01                               |
| SEP   |                                                        |                                      |                                          |                                              |                                                   |                                                  |                                   |                                   |
| 07... | .4                                                     | 2                                    | 2                                        | 11                                           | 6.1                                               | .2                                               | .74                               | .01                               |

| DATE  | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) |
|-------|------------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------------|-------------------------------------------|------------------------------------------------------------------|
| OCT   |                                                      |                                                    |                                                    |                                                          |                                         |                                           |                                           |                                                                  |
| 16... | .09                                                  | .03                                                | .62                                                | .65                                                      | .74                                     | 3.3                                       | .04                                       | 55                                                               |
| NOV   |                                                      |                                                    |                                                    |                                                          |                                         |                                           |                                           |                                                                  |
| 12... | .10                                                  | .04                                                | .57                                                | .61                                                      | .71                                     | 3.1                                       | .06                                       | 49                                                               |
| DEC   |                                                      |                                                    |                                                    |                                                          |                                         |                                           |                                           |                                                                  |
| 18... | .13                                                  | .04                                                | .42                                                | .46                                                      | .59                                     | 2.6                                       | .07                                       | 52                                                               |
| JAN   |                                                      |                                                    |                                                    |                                                          |                                         |                                           |                                           |                                                                  |
| 22... | .10                                                  | .03                                                | .44                                                | .47                                                      | .57                                     | 2.5                                       | .05                                       | 32                                                               |
| FEB   |                                                      |                                                    |                                                    |                                                          |                                         |                                           |                                           |                                                                  |
| 18... | .06                                                  | .03                                                | .52                                                | .55                                                      | .61                                     | 2.7                                       | .05                                       | 64                                                               |
| MAR   |                                                      |                                                    |                                                    |                                                          |                                         |                                           |                                           |                                                                  |
| 16... | .03                                                  | .02                                                | .66                                                | .68                                                      | .71                                     | 3.1                                       | .05                                       | 54                                                               |
| APR   |                                                      |                                                    |                                                    |                                                          |                                         |                                           |                                           |                                                                  |
| 19... | --                                                   | .02                                                | .48                                                | --                                                       | .61                                     | --                                        | .06                                       | 66                                                               |
| MAY   |                                                      |                                                    |                                                    |                                                          |                                         |                                           |                                           |                                                                  |
| 11... | .11                                                  | .03                                                | .35                                                | .38                                                      | .49                                     | 2.2                                       | .09                                       | 70                                                               |
| JUN   |                                                      |                                                    |                                                    |                                                          |                                         |                                           |                                           |                                                                  |
| 09... | .02                                                  | .03                                                | .75                                                | .78                                                      | .80                                     | 3.5                                       | .00                                       | 92                                                               |
| JUL   |                                                      |                                                    |                                                    |                                                          |                                         |                                           |                                           |                                                                  |
| 12... | .04                                                  | .05                                                | .65                                                | .70                                                      | .74                                     | 3.3                                       | .03                                       | 74                                                               |
| AUG   |                                                      |                                                    |                                                    |                                                          |                                         |                                           |                                           |                                                                  |
| 11... | .05                                                  | .03                                                | .65                                                | .68                                                      | .73                                     | 3.2                                       | .04                                       | 62                                                               |
| SEP   |                                                      |                                                    |                                                    |                                                          |                                         |                                           |                                           |                                                                  |
| 07... | .75                                                  | .04                                                | .61                                                | .65                                                      | 1.4                                     | 6.2                                       | .03                                       | 85                                                               |

02231000 ST. MARYS RIVER NEAR MACCLENNY, FLA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | CARBON<br>DIOXIDE<br>(CO2)<br>(MG/L) | PERI-<br>PHYTON<br>BIOMASS<br>ASH<br>WEIGHT<br>G/SQ M | PERI-<br>PHYTON<br>BIOMASS<br>TOTAL<br>DRY<br>WEIGHT<br>G/SQ M | TOTAL<br>PHYTO-<br>PLANK-<br>TON<br>(CELLS<br>PER<br>ML) |
|--------------|------------------------------------|---------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------|-------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|
| OCT<br>16... | 12                                 | 4                                                 | 240                                          | 1                            | 2.7                                                          | 402                                  | --                                                    | --                                                             | 150                                                      |
| NOV<br>12... | --                                 | --                                                | 200                                          | 1                            | --                                                           | 45                                   | --                                                    | --                                                             | 83                                                       |
| DEC<br>18... | 21                                 | 6                                                 | 140                                          | 4                            | --                                                           | --                                   | --                                                    | --                                                             | 51                                                       |
| JAN<br>22... | 13                                 | 4                                                 | 120                                          | 1                            | 1.4                                                          | 20                                   | 5.80                                                  | 8.30                                                           | 57                                                       |
| FEB<br>18... | 15                                 | 7                                                 | 160                                          | 4                            | --                                                           | 64                                   | --                                                    | --                                                             | 110                                                      |
| MAR<br>16... | 11                                 | 8                                                 | 150                                          | 2                            | .6                                                           | 32                                   | --                                                    | --                                                             | 210                                                      |
| APR<br>19... | 19                                 | 3                                                 | 150                                          | 3                            | .3                                                           | 55                                   | 6.40                                                  | 13.0                                                           | 150                                                      |
| MAY<br>11... | 19                                 | 10                                                | 110                                          | 5                            | --                                                           | 8.8                                  | --                                                    | --                                                             | 400                                                      |
| JUN<br>09... | 7                                  | 7                                                 | 260                                          | 2                            | --                                                           | .0                                   | --                                                    | --                                                             | 170                                                      |
| JUL<br>12... | 5                                  | 5                                                 | 140                                          | 2                            | .4                                                           | 51                                   | --                                                    | --                                                             | 140                                                      |
| AUG<br>11... | 9                                  | 4                                                 | 200                                          | 1                            | --                                                           | 19                                   | --                                                    | --                                                             | 2400                                                     |
| SEP<br>07... | 14                                 | 13                                                | 280                                          | 1                            | --                                                           | 64                                   | --                                                    | --                                                             | 110                                                      |

| DATE         | UNCOR-<br>RECTED<br>PERI-<br>PHYTON<br>CHLORO-<br>PHYLL A<br>MG/SQ M | UNCOR-<br>RECTED<br>PERI-<br>PHYTON<br>CHLORO-<br>PHYLL B<br>MG/SQ M | IMME-<br>DIATE<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | STREP-<br>TOCOCCI<br>(COL-<br>ONIES<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | TOTAL<br>IN-<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | SUS-<br>PENDE<br>SEDI-<br>MENT<br>(MG/L) | SUS-<br>PENDE<br>SEDI-<br>MENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|--------------|----------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|---------------------------------------------|----------------------------------------------------|------------------------------------------|-------------------------------------------------------------|
| OCT<br>16... | --                                                                   | --                                                                   | 300                                                        | 5                                                 | 10                                                    | 21                                          | .0                                                 | 5                                        | 3.6                                                         |
| NOV<br>12... | --                                                                   | --                                                                   | 400                                                        | 100                                               | 90                                                    | --                                          | --                                                 | 6                                        | 2.4                                                         |
| DEC<br>18... | --                                                                   | --                                                                   | 90                                                         | 10                                                | 35                                                    | --                                          | --                                                 | 2                                        | .38                                                         |
| JAN<br>22... | 19.0                                                                 | .800                                                                 | 350                                                        | 70                                                | 20                                                    | 16                                          | 2.0                                                | 2                                        | .86                                                         |
| FEB<br>18... | --                                                                   | --                                                                   | 80                                                         | 5                                                 | 20                                                    | --                                          | --                                                 | 3                                        | 1.1                                                         |
| MAR<br>16... | --                                                                   | --                                                                   | 220                                                        | 10                                                | 30                                                    | --                                          | --                                                 | 4                                        | 3.1                                                         |
| APR<br>19... | 26.0                                                                 | --                                                                   | 100                                                        | 10                                                | 30                                                    | 10                                          | 5.0                                                | 4                                        | .73                                                         |
| MAY<br>11... | --                                                                   | --                                                                   | 100                                                        | 20                                                | 40                                                    | --                                          | --                                                 | 1                                        | .33                                                         |
| JUN<br>09... | --                                                                   | --                                                                   | 200                                                        | 15                                                | 0                                                     | --                                          | --                                                 | 0                                        | .00                                                         |
| JUL<br>12... | --                                                                   | --                                                                   | 540                                                        | 25                                                | 25                                                    | 27                                          | 2.0                                                | 7                                        | 9.7                                                         |
| AUG<br>11... | --                                                                   | --                                                                   | 100                                                        | 0                                                 | 20                                                    | --                                          | --                                                 | 7                                        | 3.5                                                         |
| SEP<br>07... | --                                                                   | --                                                                   | 190                                                        | 10                                                | 50                                                    | 30                                          | 1.0                                                | 6                                        | 3.2                                                         |

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]



02231000 ST. MARYS RIVER NEAR MACCLENNY, FLA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
(ONCE-DAILY)

| DAY   | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1     | 39  | 53  | --- | 36  | 52  | 46  | 38  | 41  | 41  | 45  | 41  | 37  |
| 2     | 39  | 56  | 67  | 39  | 52  | 47  | 40  | 41  | 41  | 48  | 38  | 38  |
| 3     | 38  | 55  | 67  | 39  | 54  | 46  | 42  | 39  | 36  | 46  | 38  | 37  |
| 4     | 37  | 59  | 73  | 33  | 49  | 46  | 40  | 37  | 37  | 45  | 39  | 40  |
| 5     | 37  | 61  | 66  | 40  | 49  | 44  | 43  | 39  | 38  | 49  | 41  | 37  |
| 6     | 38  | 61  | 68  | 40  | 48  | 44  | 41  | 38  | 43  | 48  | 41  | 38  |
| 7     | 37  | 66  | 70  | 25  | 53  | 46  | 44  | 41  | 39  | 50  | 39  | 39  |
| 8     | 37  | 61  | 63  | 40  | 48  | 44  | 43  | 39  | 43  | 52  | 39  | 36  |
| 9     | 38  | 60  | 68  | 38  | 47  | 42  | 43  | 39  | 40  | 48  | 38  | 35  |
| 10    | 38  | 66  | 68  | 43  | 48  | 44  | 44  | 41  | 44  | 49  | 38  | 37  |
| 11    | 39  | 61  | 69  | 41  | 49  | 42  | 36  | 42  | 40  | 50  | 39  | 38  |
| 12    | 40  | 62  | 68  | 41  | 45  | 42  | 36  | 40  | 36  | 50  | 38  | 38  |
| 13    | 43  | 63  | 62  | 32  | 45  | 42  | 37  | 36  | 41  | 52  | 37  | 39  |
| 14    | 42  | 64  | 65  | 42  | 47  | 43  | 39  | 38  | 40  | 52  | 38  | 30  |
| 15    | 41  | 65  | 60  | 41  | 48  | 42  | 38  | 33  | 43  | 52  | 39  | 35  |
| 16    | 42  | 66  | 58  | 42  | 48  | 42  | --- | 40  | 38  | 47  | 37  | 36  |
| 17    | 41  | 66  | 60  | 41  | 46  | 43  | 38  | 35  | 40  | 49  | 39  | 36  |
| 18    | 44  | 67  | 58  | 40  | 48  | 42  | 30  | 37  | 36  | 50  | 39  | 35  |
| 19    | 46  | 68  | 56  | 40  | 45  | 38  | 40  | 40  | 45  | 49  | 39  | 36  |
| 20    | 42  | 67  | 53  | 38  | 47  | 48  | 41  | 44  | 39  | 50  | 36  | 38  |
| 21    | 43  | 66  | 50  | 41  | 48  | 45  | 42  | 40  | 39  | 50  | 41  | 38  |
| 22    | 43  | 65  | 50  | 42  | 48  | 44  | 42  | 40  | 40  | 50  | 38  | 37  |
| 23    | 47  | 67  | 48  | 43  | 46  | 45  | 42  | 39  | 46  | 50  | 39  | 35  |
| 24    | 45  | 65  | 45  | 42  | 48  | 45  | 41  | 40  | 43  | 50  | 35  | 35  |
| 25    | 47  | 63  | 45  | --- | 49  | 44  | 42  | 39  | 43  | 52  | 37  | 37  |
| 26    | 47  | 65  | 49  | 42  | 49  | 44  | 40  | 37  | 42  | --- | 37  | 36  |
| 27    | 48  | 66  | 48  | 40  | 52  | 44  | 39  | 41  | 44  | 47  | 37  | 36  |
| 28    | 47  | 65  | 45  | 42  | 50  | 43  | 38  | 41  | 39  | 47  | 35  | 37  |
| 29    | 50  | 66  | 50  | 42  | --- | 44  | 40  | 53  | 39  | 47  | 49  | 36  |
| 30    | 54  | 68  | 52  | --- | --- | 42  | 39  | 39  | 40  | 47  | 38  | 37  |
| 31    | 47  | --- | --- | 42  | --- | 48  | --- | 38  | --- | 46  | 37  | --- |
| MONTH | 42  | 63  | 59  | 40  | 49  | 44  | 40  | 40  | 41  | 49  | 39  | 37  |

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
(ONCE-DAILY)

| DAY   | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1     | 37  | 43  | 51  | 50  | 46  | 51  | 42  | 70  | 51  | 46  | 49  | 43  |
| 2     | 35  | 42  | 58  | 94  | 47  | 52  | 47  | 70  | 46  | 36  | 47  | 39  |
| 3     | 35  | 43  | 57  | 92  | 56  | 54  | 48  | 68  | 46  | 37  | 48  | 39  |
| 4     | 35  | 44  | 54  | 48  | 47  | 56  | 46  | 70  | 46  | 37  | 48  | 37  |
| 5     | 43  | 44  | 54  | 69  | 48  | 55  | 46  | 71  | 44  | 38  | 35  | 39  |
| 6     | 37  | 45  | 54  | 51  | 46  | 46  | 47  | 73  | 42  | 36  | 36  | 39  |
| 7     | 35  | 45  | 55  | 50  | 44  | 58  | 46  | 76  | 41  | 36  | 36  | 55  |
| 8     | 41  | 46  | 56  | 47  | 44  | 63  | 48  | 61  | 41  | 36  | 36  | 43  |
| 9     | 37  | 47  | 54  | 48  | 47  | 55  | 48  | 60  | 40  | 39  | 46  | 44  |
| 10    | 38  | 48  | 52  | 49  | 44  | 32  | 52  | 61  | 40  | 37  | 37  | 45  |
| 11    | 37  | 45  | 54  | 46  | 47  | 46  | 50  | 64  | 40  | 38  | 38  | 45  |
| 12    | 38  | 46  | 53  | 46  | 44  | 45  | 53  | 60  | 40  | 39  | 37  | 47  |
| 13    | 37  | 49  | 55  | 45  | 45  | 42  | 54  | 62  | 40  | 40  | 38  | 46  |
| 14    | 37  | 52  | 54  | 45  | 46  | 42  | 54  | 61  | 42  | 40  | 38  | 47  |
| 15    | 37  | 49  | 55  | 43  | 48  | 42  | 54  | 47  | 44  | 40  | 37  | 46  |
| 16    | 38  | 49  | 55  | 45  | 49  | 41  | 56  | --- | 44  | 39  | 37  | 47  |
| 17    | --- | 46  | 55  | 44  | 47  | 43  | 57  | 64  | 42  | 38  | 38  | 45  |
| 18    | 38  | 48  | 59  | 43  | 52  | 44  | 58  | 46  | 41  | 39  | 41  | 44  |
| 19    | 40  | 51  | 58  | 44  | 48  | 42  | 56  | 46  | 40  | 39  | 42  | 45  |
| 20    | 38  | --- | 57  | 44  | 56  | 43  | --- | 46  | 39  | 39  | 41  | 46  |
| 21    | 40  | 52  | 56  | 43  | 48  | 42  | 63  | 68  | 39  | 41  | 42  | 43  |
| 22    | 38  | 52  | 60  | 46  | 48  | 42  | 64  | 45  | 39  | 33  | 41  | 43  |
| 23    | 40  | 53  | 59  | 46  | 48  | 42  | 64  | 43  | 39  | 41  | 41  | 42  |
| 24    | 36  | 52  | 58  | 49  | 49  | 42  | 70  | 42  | 39  | 40  | 40  | 42  |
| 25    | 41  | 51  | 64  | 48  | 51  | 42  | 64  | 45  | 39  | 76  | 38  | 44  |
| 26    | 37  | 56  | 56  | 48  | 51  | 45  | 60  | 46  | 39  | 62  | 38  | 41  |
| 27    | --- | 52  | 56  | 46  | --- | 44  | 66  | 46  | 40  | 39  | 38  | 46  |
| 28    | 41  | 53  | 54  | 45  | 51  | 43  | 60  | 46  | 41  | 39  | 47  | 45  |
| 29    | 38  | 51  | 55  | 49  | 68  | 41  | 59  | 47  | 37  | 40  | 40  | 45  |
| 30    | 40  | 54  | 56  | 50  | --- | 44  | 66  | 48  | 39  | 42  | 40  | 46  |
| 31    | 41  | --- | 51  | 47  | --- | 42  | --- | 48  | --- | 46  | 41  | --- |
| MONTH | 38  | 49  | 56  | 50  | 49  | 46  | 55  | 57  | 41  | 41  | 40  | 44  |

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
(ONCE-DAILY)

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1     | 27.0 | 20.0 | ---  | 18.0 | 14.0 | 15.0 | 20.0 | 22.0 | 22.0 | 25.0 | 24.0 | 25.0 |
| 2     | 23.0 | 20.0 | 12.0 | 17.0 | 14.0 | 14.0 | 25.0 | 28.0 | 23.0 | 24.0 | 24.0 | 27.0 |
| 3     | 20.0 | 20.0 | 14.0 | 17.0 | 14.0 | 10.0 | 15.0 | 22.0 | 23.0 | 25.0 | 22.0 | 22.0 |
| 4     | 18.0 | 18.0 | 14.0 | 17.0 | 14.0 | 14.0 | 17.0 | 20.0 | 22.0 | 27.0 | 22.0 | 27.0 |
| 5     | 20.0 | 20.0 | 14.0 | 14.0 | 14.0 | 14.0 | 16.0 | 20.0 | 22.0 | 25.0 | 22.0 | 28.0 |
| 6     | 23.0 | 20.0 | 14.0 | 14.0 | 14.0 | 13.0 | 16.0 | 21.0 | 22.0 | 26.0 | 22.0 | 30.0 |
| 7     | 23.0 | 20.0 | 10.0 | 17.0 | 14.0 | 14.0 | 16.0 | 21.0 | 29.0 | 25.0 | 22.0 | 28.0 |
| 8     | 24.0 | 20.0 | 14.0 | 17.0 | 14.0 | 15.0 | 15.0 | 22.0 | 20.0 | 24.0 | 22.0 | 27.0 |
| 9     | 27.0 | 17.0 | 14.0 | 14.0 | 14.0 | 15.0 | 15.0 | 21.0 | 21.0 | 24.0 | 22.0 | 27.0 |
| 10    | 27.0 | 15.0 | 14.0 | 17.0 | 14.0 | 14.0 | 15.0 | 21.0 | 21.0 | 20.0 | 25.0 | 27.0 |
| 11    | 24.0 | 18.0 | 14.0 | 14.0 | 14.0 | 15.0 | 14.0 | 21.0 | 22.0 | 25.0 | 23.0 | 27.0 |
| 12    | 25.0 | 18.0 | 14.0 | 14.0 | 14.0 | 15.0 | 16.0 | 21.0 | 24.0 | 20.0 | 25.0 | 28.0 |
| 13    | 27.0 | 20.0 | 14.0 | 17.0 | 14.0 | 15.0 | 20.0 | 21.0 | 25.0 | 24.0 | 22.0 | 25.0 |
| 14    | 27.0 | 18.0 | 14.0 | 17.0 | 14.0 | 15.0 | 14.0 | 21.0 | 28.0 | 22.0 | 23.0 | 27.0 |
| 15    | 27.0 | 20.0 | 14.0 | 17.0 | 15.0 | 15.0 | 14.0 | 22.0 | 25.0 | 20.0 | 23.0 | 27.0 |
| 16    | 27.0 | 22.0 | 14.0 | 9.0  | 14.0 | 15.0 | ---  | 21.0 | 25.0 | 21.0 | 27.0 | 27.0 |
| 17    | 23.0 | 20.0 | 14.0 | 14.0 | 14.0 | 15.0 | 15.0 | 27.0 | 25.0 | 20.0 | 28.0 | 27.0 |
| 18    | 20.0 | 18.0 | 11.0 | 14.0 | 14.0 | 21.0 | 15.0 | 22.0 | 28.0 | 22.0 | 25.0 | 27.0 |
| 19    | 20.0 | 18.0 | 12.0 | 14.0 | 14.0 | 15.0 | 15.0 | 22.0 | 25.0 | 23.0 | 27.0 | 25.0 |
| 20    | 20.0 | 20.0 | 14.0 | 14.0 | 15.0 | 15.0 | 18.0 | 25.0 | 28.0 | 28.0 | 25.0 | 27.0 |
| 21    | 20.0 | 20.0 | 14.0 | 14.0 | 14.0 | 15.0 | 17.0 | 22.0 | 25.0 | 25.0 | 28.0 | 25.0 |
| 22    | 20.0 | 17.0 | 13.0 | 14.0 | 20.0 | 20.0 | 18.0 | 21.0 | 25.0 | 23.0 | 21.0 | 27.0 |
| 23    | 18.0 | 18.0 | 14.0 | 14.0 | 14.0 | 15.0 | 25.0 | 22.0 | 23.0 | 22.0 | 28.0 | 27.0 |
| 24    | 19.0 | 18.0 | 14.0 | 14.0 | 15.0 | 15.0 | 23.0 | 22.0 | 25.0 | 22.0 | 27.0 | 27.0 |
| 25    | 20.0 | 18.0 | 14.0 | ---  | 14.0 | 15.0 | 15.0 | 22.0 | 24.0 | 24.0 | 25.0 | 27.0 |
| 26    | 20.0 | 14.0 | 14.0 | 14.0 | 15.0 | 15.0 | 15.0 | 22.0 | 24.0 | 22.0 | 27.0 | 27.0 |
| 27    | 27.0 | 14.0 | 14.0 | 14.0 | 14.0 | 15.0 | 20.0 | 22.0 | 25.0 | 22.0 | 28.0 | 27.0 |
| 28    | 20.0 | 14.0 | 17.0 | 14.0 | 15.0 | 15.0 | 22.0 | 22.0 | 25.0 | 22.0 | 23.0 | 25.0 |
| 29    | 23.0 | 13.0 | 18.0 | 14.0 | ---  | 15.0 | 21.0 | 22.0 | 23.0 | 25.0 | 25.0 | 25.0 |
| 30    | 20.0 | 14.0 | 17.0 | ---  | ---  | 15.0 | 23.0 | 22.0 | 24.0 | 22.0 | 27.0 | 28.0 |
| 31    | 20.0 | ---  | ---  | 14.0 | ---  | 15.0 | ---  | 22.0 | ---  | ---  | 22.0 | ---  |
| MONTH | 22.5 | 18.0 | 14.0 | 15.0 | 14.5 | 15.0 | 17.5 | 22.0 | 24.0 | 23.5 | 24.5 | 26.5 |

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
(ONCE-DAILY)

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1     | 27.0 | 23.0 | 20.0 | 17.0 | 17.0 | 17.0 | 18.0 | 25.0 | 23.0 | 27.0 | 25.0 | 30.0 |
| 2     | 27.0 | 22.0 | 18.0 | 17.0 | 14.0 | 17.0 | 18.0 | 18.0 | 23.0 | 23.0 | 28.0 | ---  |
| 3     | 26.0 | 22.0 | 17.0 | 17.0 | 15.0 | 17.0 | 18.0 | 18.0 | 23.0 | 23.0 | 25.0 | 30.0 |
| 4     | 27.0 | 23.0 | 15.0 | 17.0 | 15.0 | 17.0 | 18.0 | 22.0 | 22.0 | 23.0 | 26.0 | 30.0 |
| 5     | 22.0 | 22.0 | 13.0 | 17.0 | 15.0 | 17.0 | 18.0 | 18.0 | 23.0 | 23.0 | 26.0 | 30.0 |
| 6     | 22.0 | 25.0 | 17.0 | 17.0 | 17.0 | 18.0 | 17.0 | 25.0 | 23.0 | 23.0 | 25.0 | 31.0 |
| 7     | 25.0 | 23.0 | 17.0 | 17.0 | 17.0 | 18.0 | 18.0 | 23.0 | 23.0 | 23.0 | 26.0 | 28.0 |
| 8     | 28.0 | 23.0 | 17.0 | 17.0 | 15.0 | 18.0 | 18.0 | 22.0 | 23.0 | 23.0 | 27.0 | 29.0 |
| 9     | 28.0 | 23.0 | 17.0 | 15.0 | 15.0 | 17.0 | 18.0 | 22.0 | 23.0 | 23.0 | 27.0 | 29.0 |
| 10    | 28.0 | 23.0 | 17.0 | 17.0 | 15.0 | 18.0 | 18.0 | 22.0 | 23.0 | 23.0 | 26.0 | 30.0 |
| 11    | 27.0 | 25.0 | 17.0 | 17.0 | 15.0 | 18.0 | 18.0 | 23.0 | 24.0 | 22.0 | 30.0 | 30.0 |
| 12    | 28.0 | 23.0 | 17.0 | 17.0 | 15.0 | 17.0 | 18.0 | 23.0 | 23.0 | 22.0 | 29.0 | 30.0 |
| 13    | 27.0 | 24.0 | 18.0 | 17.0 | 17.0 | 21.0 | 18.0 | 18.0 | 23.0 | 22.0 | 30.0 | 30.0 |
| 14    | 27.0 | 20.0 | 17.0 | 15.0 | 15.0 | 18.0 | 17.0 | 23.0 | 23.0 | 23.0 | 28.0 | 23.0 |
| 15    | 27.0 | 17.0 | 17.0 | 17.0 | 17.0 | 18.0 | 19.0 | 22.0 | 23.0 | 23.0 | 31.0 | 30.0 |
| 16    | 27.0 | 15.0 | 17.0 | 17.0 | 17.0 | 18.0 | 19.0 | ---  | 23.0 | 23.0 | 30.0 | 29.0 |
| 17    | ---  | 18.0 | 17.0 | 14.0 | 17.0 | 18.0 | 18.0 | 22.0 | 23.0 | 23.0 | 30.0 | 30.0 |
| 18    | 22.0 | 18.0 | 17.0 | 14.0 | 17.0 | 18.0 | 18.0 | 22.0 | 23.0 | 22.0 | 30.0 | 30.0 |
| 19    | 22.0 | 18.0 | 17.0 | 12.0 | 17.0 | 18.0 | 18.0 | 22.0 | 23.0 | 22.0 | 29.0 | 30.0 |
| 20    | 27.0 | ---  | 17.0 | 14.0 | 17.0 | 18.0 | 17.0 | 22.0 | 23.0 | 22.0 | 29.0 | 30.0 |
| 21    | 27.0 | 17.0 | 17.0 | 12.0 | 17.0 | 18.0 | 18.0 | 22.0 | 23.0 | 22.0 | 30.0 | 29.0 |
| 22    | 23.0 | 19.0 | 17.0 | 17.0 | 17.0 | 18.0 | 18.0 | 22.0 | 22.0 | 23.0 | 30.0 | 29.0 |
| 23    | 23.0 | 18.0 | 17.0 | 17.0 | 17.0 | 18.0 | 18.0 | 23.0 | 23.0 | 23.0 | 30.0 | 30.0 |
| 24    | 25.0 | 19.0 | 17.0 | 11.0 | 16.0 | 18.0 | 25.0 | 23.0 | 22.0 | 23.0 | 30.0 | 30.0 |
| 25    | 24.0 | 16.0 | 17.0 | 19.0 | 17.0 | 18.0 | 18.0 | 22.0 | 23.0 | 20.0 | 31.0 | 29.0 |
| 26    | 23.0 | ---  | 17.0 | 17.0 | 16.0 | 18.0 | 18.0 | 22.0 | ---  | 23.0 | 30.0 | 29.0 |
| 27    | 27.0 | 21.0 | 17.0 | 17.0 | 17.0 | 18.0 | 18.0 | 22.0 | 23.0 | 23.0 | 31.0 | 30.0 |
| 28    | 24.0 | 19.0 | 17.0 | 18.0 | 17.0 | 18.0 | 19.0 | 23.0 | 23.0 | 23.0 | 31.0 | 30.0 |
| 29    | 27.0 | 19.0 | 17.0 | 14.0 | ---  | 18.0 | 15.0 | 24.0 | 23.0 | 23.0 | 31.0 | 30.0 |
| 30    | 27.0 | 17.0 | 17.0 | 17.0 | ---  | 16.0 | 17.0 | 23.0 | 23.0 | 23.0 | 29.0 | 30.0 |
| 31    | 22.0 | ---  | 17.0 | 17.0 | ---  | 18.0 | ---  | 23.0 | ---  | 24.0 | 30.0 | ---  |
| MONTH | 25.5 | 20.5 | 17.0 | 16.0 | 16.0 | 18.0 | 18.0 | 22.0 | 23.0 | 23.0 | 28.5 | 29.5 |

02231220 ST. MARYS RIVER AT BOULOGNE, FLA.

LOCATION.--Lat 30°46'35", long 81°58'44", Nassau County, at bridge on U.S. Highways 1, 23, and 301, at Boulogne.

DRAINAGE AREA.--1,180 mi<sup>2</sup> (3,060 km<sup>2</sup>), 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 Discharge, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|---------------|-----------------------------|------------------------------------|
| OCT.<br>07... | 1045 | 6.3           | 22.0                        | 6.0                                |
| DEC.<br>03... | 1200 | 6.3           | 14.0                        | 8.0                                |
| JAN.<br>06... | 1145 | 6.4           | 10.0                        | 9.1                                |
| FEB.<br>04... | 1200 | 5.7           | 10.0                        | 9.4                                |
| MAR.<br>09... | 1200 | 6.2           | 20.5                        | 7.0                                |
| MAY<br>05...  | 1100 | 6.3           | 23.5                        | 6.4                                |
| JUNE<br>08... | 1130 | 4.9           | 21.0                        | 7.1                                |
| JULY<br>07... | 1130 | 5.3           | 26.0                        | 5.7                                |
| AUG.<br>04... | 1115 | 5.6           | 28.0                        | 5.8                                |

| DATE          | ALKAL-<br>INITY<br>AS<br>CACO <sub>3</sub><br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) |
|---------------|------------------------------------------------------|---------------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|
| OCT.<br>07... | 4                                                    | 7.8                                               | .13                                                  | <.02                                               | .04                                       | 11                                  |
| DEC.<br>03... | 15                                                   | 9.0                                               | .08                                                  | .17                                                | .10                                       | 20                                  |
| JAN.<br>06... | 9                                                    | 9.3                                               | .05                                                  | <.02                                               | .03                                       | 18                                  |
| FEB.<br>04... | 3                                                    | 9.3                                               | <.02                                                 | <.02                                               | .02                                       | 14                                  |
| MAR.<br>09... | 16                                                   | 9.8                                               | .06                                                  | .03                                                | .06                                       | 22                                  |
| MAY<br>05...  | --                                                   | 9.8                                               | .05                                                  | .03                                                | .05                                       | 34                                  |
| JUNE<br>08... | 1                                                    | 9.0                                               | <.02                                                 | <.02                                               | .04                                       | 14                                  |
| JULY<br>07... | 2                                                    | 7.0                                               | <.02                                                 | .02                                                | .04                                       | 10                                  |
| AUG.<br>04... | 10                                                   | --                                                | .04                                                  | .06                                                | .04                                       | 18                                  |

## ST. MARYS RIVER BASIN

02231220 ST. MARYS RIVER AT BOULOGNE, FLA.--Continued

## WATER QUALITY DATA\* WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>CORALT<br>UNITS) | TUR-<br>BID-<br>IDITY<br>(JTU) | RIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | TANNIN<br>AND<br>LIGNIN<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|--------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|-----------------------------------|
| OCT.<br>07... | 40                                                         | 200                                          | 3                              | 1.0                                                          | <30                                              | 25                                          | 6.6                               |
| DEC.<br>03... | 66                                                         | 160                                          | 23                             | 1.0                                                          | 930                                              | 21                                          | 3.9                               |
| JAN.<br>06... | 60                                                         | 90                                           | 3                              | .3                                                           | 36                                               | 16                                          | 2.9                               |
| FEB.<br>04... | 52                                                         | 120                                          | 4                              | .8                                                           | 430                                              | 20                                          | 3.9                               |
| MAR.<br>09... | 75                                                         | 100                                          | 4                              | --                                                           | --                                               | 15                                          | 3.6                               |
| MAY<br>05...  | 102                                                        | --                                           | --                             | --                                                           | --                                               | 12                                          | 2.6                               |
| JUNE<br>08... | 46                                                         | 240                                          | 3                              | 1.3                                                          | <30                                              | 41                                          | 6.6                               |
| JULY<br>07... | 43                                                         | 120                                          | 4                              | .9                                                           | 91                                               | 25                                          | 5.0                               |
| AUG.<br>04... | 55                                                         | 150                                          | 5                              | --                                                           | --                                               | 23                                          | --                                |

## 02314500 SUWANNEE RIVER AT FARGO, GA.

LOCATION.--Lat 30°40'50", long 82°33'38", Clinch County, 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 1,200 mi<sup>2</sup> (3,260 km<sup>2</sup>), 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.

AVERAGE DISCHARGE.--43 years (1927-31, 1937-76), 1,104 ft<sup>3</sup>/s (31.3 m<sup>3</sup>/s), 11.90 in/yr (302.3 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,800 ft<sup>3</sup>/s (391 m<sup>3</sup>/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, 3,190 ft<sup>3</sup>/s (31.3 m<sup>3</sup>/s) June 1; maximum gage height, 12.22 ft (3.725 m) May 30; minimum discharge, 105 ft<sup>3</sup>/s (2.97 m<sup>3</sup>/s) Apr. 30, May 1.

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

| DAY   | OCT   | NOV   | DEC  | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1     | 1040  | 527   | 210  | 367   | 856   | 475   | 613   | 116   | 3120  | 1550  | 616   | 610   |
| 2     | 996   | 502   | 210  | 409   | 895   | 452   | 618   | 167   | 3080  | 1740  | 553   | 603   |
| 3     | 946   | 481   | 208  | 414   | 955   | 434   | 620   | 176   | 2930  | 2000  | 593   | 624   |
| 4     | 893   | 463   | 201  | 422   | 1020  | 413   | 613   | 165   | 2800  | 2180  | 710   | 724   |
| 5     | 859   | 447   | 194  | 435   | 1070  | 396   | 603   | 155   | 2680  | 2260  | 570   | 705   |
| 6     | 865   | 434   | 190  | 438   | 1120  | 374   | 597   | 148   | 2580  | 2270  | 506   | 698   |
| 7     | 915   | 420   | 189  | 438   | 1160  | 348   | 600   | 146   | 2480  | 2250  | 452   | 1030  |
| 8     | 939   | 410   | 192  | 450   | 1180  | 328   | 599   | 195   | 2350  | 2220  | 416   | 1130  |
| 9     | 993   | 411   | 198  | 485   | 1190  | 509   | 543   | 253   | 2210  | 2180  | 391   | 1130  |
| 10    | 1040  | 400   | 222  | 503   | 1210  | 866   | 556   | 260   | 2080  | 2110  | 414   | 1110  |
| 11    | 1050  | 391   | 227  | 510   | 1180  | 920   | 518   | 240   | 1960  | 2040  | 430   | 1080  |
| 12    | 1030  | 381   | 222  | 521   | 1170  | 912   | 482   | 216   | 1840  | 1960  | 415   | 1070  |
| 13    | 1000  | 379   | 218  | 535   | 1120  | 856   | 452   | 200   | 1720  | 1890  | 437   | 1050  |
| 14    | 962   | 375   | 215  | 547   | 1100  | 804   | 426   | 195   | 1590  | 1820  | 487   | 1100  |
| 15    | 910   | 355   | 215  | 553   | 1080  | 760   | 401   | 308   | 1480  | 1740  | 485   | 1200  |
| 16    | 864   | 337   | 213  | 557   | 1020  | 756   | 371   | 562   | 1370  | 1660  | 500   | 1290  |
| 17    | 841   | 324   | 215  | 561   | 955   | 856   | 340   | 606   | 1270  | 1580  | 594   | 1320  |
| 18    | 854   | 314   | 231  | 572   | 892   | 868   | 311   | 601   | 1240  | 1500  | 637   | 1290  |
| 19    | 852   | 305   | 238  | 574   | 860   | 862   | 285   | 567   | 1150  | 1400  | 651   | 1220  |
| 20    | 842   | 299   | 228  | 568   | 834   | 830   | 260   | 531   | 1060  | 1340  | 658   | 1130  |
| 21    | 816   | 292   | 222  | 565   | 794   | 790   | 235   | 502   | 1010  | 1350  | 668   | 1050  |
| 22    | 790   | 283   | 218  | 559   | 754   | 760   | 212   | 549   | 987   | 1400  | 671   | 976   |
| 23    | 762   | 271   | 213  | 550   | 716   | 744   | 197   | 1030  | 969   | 1430  | 668   | 916   |
| 24    | 734   | 260   | 209  | 537   | 678   | 724   | 181   | 1520  | 993   | 1360  | 657   | 972   |
| 25    | 703   | 251   | 207  | 522   | 640   | 694   | 166   | 2010  | 1030  | 1270  | 648   | 1080  |
| 26    | 677   | 240   | 215  | 509   | 600   | 654   | 158   | 2370  | 1070  | 1140  | 670   | 1380  |
| 27    | 648   | 236   | 243  | 526   | 564   | 620   | 146   | 2520  | 1080  | 1030  | 695   | 1600  |
| 28    | 622   | 230   | 243  | 604   | 533   | 620   | 133   | 2770  | 1130  | 927   | 683   | 1650  |
| 29    | 601   | 223   | 234  | 688   | 506   | 625   | 122   | 3030  | 1250  | 832   | 650   | 1610  |
| 30    | 582   | 217   | 236  | 784   | ---   | 628   | 111   | 3160  | 1370  | 763   | 621   | 1580  |
| 31    | 558   | ---   | 274  | 814   | ---   | 620   | ---   | 3160  | ---   | 694   | 619   | ---   |
| TOTAL | 26184 | 10458 | 6750 | 16519 | 26652 | 20498 | 11509 | 28428 | 51879 | 49886 | 17765 | 32928 |
| MEAN  | 845   | 349   | 218  | 533   | 919   | 661   | 384   | 917   | 1729  | 1609  | 573   | 1098  |
| MAX   | 1050  | 527   | 274  | 814   | 1210  | 920   | 620   | 3160  | 3120  | 2270  | 710   | 1650  |
| MIN   | 558   | 217   | 189  | 367   | 506   | 328   | 111   | 116   | 969   | 694   | 391   | 603   |
| CFSM  | .67   | .28   | .17  | .42   | .73   | .52   | .30   | .73   | 1.37  | 1.28  | .45   | .87   |
| IN.   | .77   | .31   | .20  | .49   | .79   | .61   | .34   | .84   | 1.53  | 1.47  | .52   | .97   |

CAL YR 1975 TOTAL 562365 MEAN 1541 MAX 6600 MIN 189 CFSM 1.22 IN 16.60  
WTR YR 1976 TOTAL 299456 MEAN 818 MAX 3160 MIN 111 CFSM .65 IN 8.84

## 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|--------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| DEC<br>03... | 1330 | 208                                           | 4.2           | 13.0                        | 8.6                                |
| FEB<br>04... | 1430 | 1030                                          | 4.1           | 11.0                        | 8.8                                |
| MAY<br>05... | 1315 | 153                                           | 4.2           | 22.0                        | 7.4                                |
| AUG<br>04... | 1530 | 664                                           | 4.3           | 26.5                        | 5.4                                |

| DATE          | ALKA-<br>LITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) |
|---------------|----------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| DEC.<br>03... | 0                                      | .02                                                  | <.02                                               | <.02                                      | 6                                  |
| FEB.<br>04... | 0                                      | <.02                                                 | <.02                                               | .02                                       | 5                                  |
| MAY<br>05...  | --                                     | <.02                                                 | .02                                                | .02                                       | 5                                  |
| AUG.<br>04... | 0                                      | <.02                                                 | <.02                                               | .03                                       | 6                                  |

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| DEC.<br>03... | 47                                                         | 160                                          | 2                            | .6                                                           | 30                                               | 30                                          |
| FEB.<br>04... | 51                                                         | 140                                          | 1                            | .6                                                           | 91                                               | 30                                          |
| MAY<br>05...  | 48                                                         | --                                           | --                           | --                                                           | --                                               | 30                                          |
| AUG.<br>04... | 43                                                         | 150                                          | 7                            | --                                                           | --                                               | 27                                          |



## SUWANNEE RIVER BASIN

201

02316000 ALAPAHA RIVER NEAR ALAPAHA, GA.

LOCATION.--Lat 31°23'03", long 83°11'33", Berrien County, 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 mi<sup>2</sup> (1,720 km<sup>2</sup>).

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1936 to September 1976 (discontinued). Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 872: 1937. WSP 1002: 1939(M). WSP 1624: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 208.34 ft (63.50 m) above mean sea level. Prior to Sept. 8, 1943, nonrecording gage, and Sept. 8, 1943 to Sept. 30, 1975, recording gage, at same site at datum 1.00 ft (0.30 m) higher.

REMARKS.--Records good.

AVERAGE DISCHARGE.--40 years, 522 ft<sup>3</sup>/s (14.8 m<sup>3</sup>/s), 10.69 in/yr (271.5 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,700 ft<sup>3</sup>/s (360 m<sup>3</sup>/s) Arp. 4, 1948, gage height, 17.8 ft (5.42 m) present datum; no flow July 23, 24, Sept. 1 to Nov. 28, 1954, Aug. 9-23, 1962.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1900, 19.0 ft (5.79 m) present datum, in April 1928, from information by Georgia Department of Transportation; discharge, 16,000 ft<sup>3</sup>/s (453 m<sup>3</sup>/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,790 ft<sup>3</sup>/s (107 m<sup>3</sup>/s) May 24, gage height, 13.49 ft (4.112 m); minimum daily, 8.5 ft<sup>3</sup>/s (0.241 m<sup>3</sup>/s) Sept. 2, 3.

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

| DAY         | OCT   | NOV      | DEC  | JAN   | FEB   | MAR   | APR  | MAY   | JUN   | JUL  | AUG    | SEP    |
|-------------|-------|----------|------|-------|-------|-------|------|-------|-------|------|--------|--------|
| 1           | 25    | 88       | 59   | 480   | 877   | 500   | 642  | 32    | 2150  | 87   | 11     | 9.2    |
| 2           | 23    | 74       | 62   | 500   | 1100  | 459   | 659  | 95    | 1750  | 355  | 12     | 8.5    |
| 3           | 20    | 63       | 62   | 459   | 1290  | 412   | 633  | 248   | 1380  | 612  | 66     | 8.5    |
| 4           | 18    | 54       | 61   | 432   | 1430  | 364   | 636  | 324   | 1100  | 561  | 88     | 12     |
| 5           | 18    | 47       | 59   | 464   | 1490  | 311   | 692  | 315   | 907   | 362  | 44     | 9.6    |
| 6           | 17    | 41       | 57   | 492   | 1460  | 269   | 698  | 292   | 787   | 295  | 24     | 14     |
| 7           | 19    | 38       | 57   | 489   | 1340  | 236   | 642  | 250   | 679   | 333  | 16     | 64     |
| 8           | 25    | 37       | 60   | 519   | 1150  | 209   | 565  | 320   | 569   | 545  | 36     | 115    |
| 9           | 30    | 32       | 63   | 631   | 978   | 195   | 508  | 454   | 509   | 873  | 25     | 180    |
| 10          | 80    | 30       | 65   | 747   | 853   | 187   | 458  | 612   | 432   | 973  | 139    | 206    |
| 11          | 117   | 28       | 63   | 743   | 768   | 177   | 408  | 908   | 331   | 932  | 67     | 238    |
| 12          | 124   | 30       | 63   | 681   | 697   | 172   | 344  | 919   | 258   | 795  | 59     | 251    |
| 13          | 120   | 58       | 65   | 665   | 627   | 181   | 284  | 683   | 204   | 589  | 75     | 195    |
| 14          | 104   | 60       | 65   | 677   | 564   | 202   | 228  | 453   | 161   | 468  | 91     | 137    |
| 15          | 87    | 66       | 65   | 705   | 510   | 247   | 198  | 401   | 132   | 404  | 83     | 113    |
| 16          | 70    | 66       | 67   | 739   | 467   | 323   | 166  | 489   | 110   | 328  | 76     | 93     |
| 17          | 76    | 60       | 81   | 751   | 431   | 404   | 135  | 751   | 100   | 245  | 72     | 118    |
| 18          | 142   | 51       | 87   | 719   | 403   | 443   | 112  | 1230  | 91    | 171  | 65     | 153    |
| 19          | 211   | 43       | 95   | 661   | 379   | 473   | 95   | 1540  | 77    | 124  | 55     | 145    |
| 20          | 223   | 38       | 97   | 591   | 355   | 540   | 79   | 1480  | 81    | 93   | 44     | 117    |
| 21          | 180   | 37       | 90   | 539   | 337   | 649   | 67   | 1830  | 102   | 71   | 36     | 90     |
| 22          | 162   | 34       | 87   | 492   | 332   | 823   | 57   | 2510  | 100   | 60   | 31     | 73     |
| 23          | 153   | 34       | 88   | 444   | 348   | 1180  | 48   | 3170  | 85    | 56   | 25     | 62     |
| 24          | 141   | 34       | 88   | 408   | 355   | 1490  | 40   | 3730  | 71    | 47   | 21     | 55     |
| 25          | 143   | 33       | 84   | 380   | 347   | 1530  | 33   | 3630  | 58    | 37   | 16     | 51     |
| 26          | 170   | 44       | 123  | 369   | 375   | 1380  | 27   | 3490  | 48    | 29   | 13     | 45     |
| 27          | 190   | 62       | 151  | 522   | 443   | 1140  | 22   | 3170  | 41    | 25   | 12     | 39     |
| 28          | 183   | 67       | 174  | 727   | 507   | 959   | 18   | 2770  | 41    | 25   | 10     | 36     |
| 29          | 160   | 65       | 187  | 753   | 522   | 806   | 15   | 2660  | 60    | 23   | 9.4    | 38     |
| 30          | 136   | 62       | 209  | 723   | ---   | 699   | 15   | 2700  | 57    | 18   | 8.8    | 70     |
| 31          | 108   | ---      | 322  | 751   | ---   | 623   | ---  | 2520  | ---   | 14   | 9.4    | ---    |
| TOTAL       | 3275  | 1476     | 2956 | 18253 | 20735 | 17583 | 8524 | 43976 | 12471 | 9550 | 1339.6 | 2745.8 |
| MEAN        | 106   | 49.2     | 95.4 | 589   | 715   | 567   | 284  | 1419  | 416   | 308  | 43.2   | 91.5   |
| MAX         | 223   | 88       | 322  | 753   | 1490  | 1530  | 698  | 3730  | 2150  | 973  | 139    | 251    |
| MIN         | 17    | 28       | 57   | 369   | 332   | 172   | 15   | 32    | 41    | 14   | 8.8    | 8.5    |
| CFSM        | .16   | .07      | .14  | .89   | 1.08  | .86   | .43  | 2.14  | .63   | .46  | .07    | .14    |
| IN.         | .18   | .08      | .17  | 1.02  | 1.16  | .99   | .48  | 2.47  | .70   | .54  | .08    | .15    |
| CAL YR 1975 | TOTAL | 267744.0 | MEAN | 734   | MAX   | 6670  | MIN  | 17    | CFSM  | 1.11 | IN     | 15.02  |
| WTR YR 1976 | TOTAL | 142884.4 | MEAN | 390   | MAX   | 3730  | MIN  | 8.5   | CFSM  | .59  | IN     | 8.02   |

## SUWANNEE RIVER BASIN

02316000 ALAPAHA RIVER NEAR ALAPAHA, GA.--Continued

## WATER-QUALITY RECORDS

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE       | TIME | INSTANTANEOUS DISCHARGE (CFS) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | DIS-SOLVED OXYGEN (MG/L) |
|------------|------|-------------------------------|----------------------------------|------------|---------------------|--------------------------|
| MAR. 27... | 1600 | 1110                          | --                               | 5.5        | 16.0                | 6.8                      |
| MAY 23...  | 1000 | 3100                          | 28                               | 5.2        | 19.0                | 5.8                      |

| DATE       | DIS-SOLVED SILICA (SI02) (MG/L) | DIS-SOLVED ALUMINUM (AL) (UG/L) | DIS-SOLVED IRON (FE) (UG/L) | DIS-SOLVED MANGANESE (MN) (UG/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) | RICARBONATE (HCO3) (MG/L) | CARBONATE (CO3) (MG/L) | ALKALINITY AS CAC03 (MG/L) |
|------------|---------------------------------|---------------------------------|-----------------------------|----------------------------------|--------------------------------|----------------------------------|-------------------------------|---------------------------------|---------------------------|------------------------|----------------------------|
| MAR. 27... | 5.5                             | 190                             | 480                         | 20                               | .0                             | .9                               | 3.0                           | 1.4                             | 4                         | 0                      | 3                          |
| MAY 23...  | 4.3                             | 280                             | 480                         | 0                                | 1.6                            | .7                               | 2.4                           | 1.2                             | 3                         | 0                      | 2                          |

| DATE       | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLORIDE (CL) (MG/L) | DIS-SOLVED FLUORIDE (F) (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 AMMONIA NITROGEN (N) (MG/L) | DIS-SOLVED AMMONIA NITROGEN (N) (MG/L) |
|------------|---------------------------------|---------------------------------|--------------------------------|-------------------------------|---------------------------------|-------------------------------|---------------------------------|---------------------------------------|--------------------------------------------|-----------------------------------|----------------------------------------|
| MAR. 27... | 3.1                             | 7.4                             | .1                             | .01                           | .04                             | .00                           | .00                             | .00                                   | .01                                        | .01                               | .02                                    |
| MAY 23...  | 1.5                             | 5.3                             | .2                             | .05                           | .22                             | .01                           | .03                             | .05                                   | .06                                        | .02                               | .06                                    |

| DATE       | DIS-SOLVED AMMONIA (NH4) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJEL-DAHL 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 PHOSPHATE (PO4) (MG/L) | DIS-SOLVED ORTHO PHOSPHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) |
|------------|---------------------------------|-----------------------------------|-------------------------------------|---------------------------|-----------------------------|-----------------------------|----------------------------------|-----------------------------------|-----------------------------------------|----------------------------------------|---------------------------------------------|
| MAR. 27... | .03                             | .54                               | .55                                 | .55                       | 2.4                         | .04                         | .01                              | .01                               | .00                                     | .00                                    | 66                                          |
| MAY 23...  | .08                             | 1.6                               | 1.6                                 | 1.7                       | 7.3                         | .05                         | .01                              | .03                               | .03                                     | .01                                    | 52                                          |

| DATE       | HARDNESS (CA,MG) (MG/L) | NON-CARBONATE HARDNESS (MG/L) | COLOR (PLATINUM-COBALT UNITS) | DIS-SOLVED ARSENIC (AS) (UG/L) | DIS-SOLVED CADMIUM (CD) (UG/L) | DIS-SOLVED CHROMIUM (CR) (UG/L) | DIS-SOLVED COPPER (CU) (UG/L) | DIS-SOLVED LEAD (PB) (UG/L) | DIS-SOLVED MERCURY (HG) (UG/L) | DIS-SOLVED SELENIUM (SE) (UG/L) | DIS-SOLVED ZINC (ZN) (UG/L) |
|------------|-------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|---------------------------------|-------------------------------|-----------------------------|--------------------------------|---------------------------------|-----------------------------|
| MAR. 27... | 4                       | 0                             | 150                           | 1                              | 0                              | 0                               | 0                             | 0                           | .1                             | 0                               | 0                           |
| MAY 23...  | 7                       | 4                             | 190                           | 0                              | 0                              | 0                               | 15                            | 3                           | .0                             | 0                               | 10                          |

## 02317500 ALAPAHA RIVER AT STATENVILLE, GA.

LOCATION.--Lat 30°42'14", long 82°02'00", Echols County, 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 mi<sup>2</sup> (3,630 km<sup>2</sup>), 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.--45 years (1931-76), 1,032 ft<sup>3</sup>/s (29.2 m<sup>3</sup>/s), 10.01 in/yr (254.3 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,300 ft<sup>3</sup>/s (773 m<sup>3</sup>/s) Apr. 6, 1948, gage height, 29.8 ft (9.08 m), from graph based on gage readings; minimum, 16 ft<sup>3</sup>/s (0.45 m<sup>3</sup>/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, 6,440 ft<sup>3</sup>/s (182 m<sup>3</sup>/s) June 2, gage height, 23.60 ft (7.193 m); minimum, 121 ft<sup>3</sup>/s (3.43 m<sup>3</sup>/s) Nov. 30.

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

| DAY         | OCT   | NOV    | DEC  | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG  | SEP   |
|-------------|-------|--------|------|-------|-------|-------|-------|-------|-------|-------|------|-------|
| 1           | 256   | 296    | 126  | 1010  | 2230  | 718   | 1540  | 233   | 6240  | 1350  | 196  | 138   |
| 2           | 237   | 276    | 135  | 1210  | 2330  | 741   | 1490  | 242   | 6420  | 1200  | 188  | 131   |
| 3           | 219   | 259    | 138  | 1340  | 2390  | 762   | 1340  | 233   | 6360  | 1130  | 230  | 126   |
| 4           | 202   | 239    | 137  | 1420  | 2460  | 767   | 1200  | 230   | 6010  | 987   | 286  | 161   |
| 5           | 194   | 222    | 137  | 1440  | 2520  | 767   | 1080  | 235   | 5390  | 1020  | 336  | 177   |
| 6           | 187   | 204    | 140  | 1450  | 2550  | 723   | 1020  | 313   | 4590  | 1130  | 340  | 147   |
| 7           | 185   | 197    | 143  | 1440  | 2460  | 698   | 1000  | 476   | 3780  | 1200  | 392  | 151   |
| 8           | 302   | 192    | 146  | 1430  | 2370  | 658   | 992   | 570   | 3120  | 1250  | 374  | 208   |
| 9           | 660   | 180    | 151  | 1420  | 2300  | 737   | 982   | 574   | 2620  | 1300  | 322  | 189   |
| 10          | 649   | 171    | 154  | 1430  | 2270  | 792   | 957   | 534   | 2130  | 1320  | 288  | 198   |
| 11          | 552   | 165    | 154  | 1480  | 2250  | 684   | 905   | 552   | 1660  | 1310  | 290  | 213   |
| 12          | 457   | 167    | 158  | 1490  | 2210  | 624   | 832   | 608   | 1290  | 1270  | 299  | 245   |
| 13          | 391   | 242    | 162  | 1510  | 2120  | 588   | 753   | 686   | 1050  | 1280  | 332  | 290   |
| 14          | 359   | 214    | 162  | 1560  | 1990  | 608   | 681   | 771   | 880   | 1320  | 474  | 370   |
| 15          | 348   | 190    | 164  | 1600  | 1810  | 582   | 626   | 1340  | 739   | 1340  | 480  | 506   |
| 16          | 342   | 175    | 166  | 1640  | 1620  | 604   | 570   | 1720  | 642   | 1270  | 462  | 478   |
| 17          | 355   | 187    | 169  | 1660  | 1450  | 780   | 518   | 1710  | 574   | 1090  | 424  | 418   |
| 18          | 397   | 194    | 192  | 1610  | 1290  | 840   | 466   | 1650  | 741   | 860   | 414  | 368   |
| 19          | 370   | 194    | 197  | 1510  | 1160  | 880   | 424   | 1560  | 985   | 695   | 362  | 326   |
| 20          | 377   | 200    | 219  | 1390  | 1050  | 915   | 382   | 1460  | 1270  | 592   | 317  | 291   |
| 21          | 414   | 202    | 253  | 1310  | 952   | 917   | 349   | 1400  | 1440  | 508   | 290  | 275   |
| 22          | 459   | 190    | 259  | 1260  | 887   | 935   | 321   | 1500  | 1310  | 440   | 261  | 272   |
| 23          | 495   | 174    | 253  | 1210  | 850   | 965   | 295   | 2170  | 2100  | 386   | 235  | 270   |
| 24          | 509   | 158    | 249  | 1150  | 805   | 982   | 272   | 3310  | 2090  | 334   | 213  | 277   |
| 25          | 480   | 145    | 242  | 1080  | 785   | 992   | 256   | 4140  | 1430  | 291   | 196  | 249   |
| 26          | 442   | 135    | 269  | 1040  | 769   | 1020  | 239   | 4740  | 1080  | 277   | 183  | 254   |
| 27          | 402   | 129    | 301  | 1500  | 751   | 1100  | 222   | 5020  | 922   | 272   | 181  | 291   |
| 28          | 368   | 126    | 312  | 1850  | 734   | 1250  | 208   | 5200  | 865   | 254   | 172  | 273   |
| 29          | 345   | 123    | 352  | 1990  | 716   | 1350  | 194   | 5390  | 850   | 239   | 161  | 251   |
| 30          | 329   | 123    | 410  | 2130  | ---   | 1430  | 185   | 5660  | 1360  | 225   | 153  | 242   |
| 31          | 316   | ---    | 630  | 2200  | ---   | 1490  | ---   | 5970  | ---   | 210   | 144  | ---   |
| TOTAL       | 11598 | 5669   | 6680 | 45760 | 48079 | 26899 | 20299 | 60197 | 69938 | 26350 | 8995 | 7785  |
| MEAN        | 374   | 189    | 215  | 1476  | 1658  | 868   | 677   | 1942  | 2331  | 850   | 290  | 260   |
| MAX         | 660   | 296    | 630  | 2200  | 2550  | 1490  | 1540  | 5970  | 6420  | 1350  | 480  | 506   |
| MIN         | 185   | 123    | 126  | 1010  | 716   | 582   | 185   | 230   | 574   | 210   | 144  | 126   |
| CFSM        | .27   | .14    | .15  | 1.05  | 1.18  | .62   | .48   | 1.39  | 1.67  | .61   | .21  | .19   |
| IN.         | .31   | .15    | .18  | 1.22  | 1.28  | .71   | .54   | 1.60  | 1.86  | .70   | .24  | .21   |
| CAL YR 1975 | TOTAL | 581081 | MEAN | 1592  | MAX   | 8680  | MIN   | 123   | CFSM  | 1.14  | IN   | 15.44 |
| WTR YR 1976 | TOTAL | 338249 | MEAN | 924   | MAX   | 6420  | MIN   | 123   | CFSM  | .66   | IN   | 8.99  |

## SUWANNEE RIVER BASIN

02317749 WITHLACOCHEE RIVER ABOVE VALDOSTA, GA.

LOCATION.--Lat 30°55'57", long 83°17'22", Lowndes County, 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                               |               |                             |                                    |
| 08... | 0700 | 194                                           | 6.2           | 21.0                        | 5.8                                |
| DEC.  |      |                                               |               |                             |                                    |
| 08... | 1000 | 52                                            | 6.2           | 13.0                        | 7.0                                |
| JAN.  |      |                                               |               |                             |                                    |
| 07... | 0800 | 1360                                          | 5.2           | 7.0                         | 8.2                                |
| FEB.  |      |                                               |               |                             |                                    |
| 09... | 0830 | 956                                           | 5.3           | 8.0                         | 8.2                                |
| MAR.  |      |                                               |               |                             |                                    |
| 10... | 0815 | 299                                           | 6.1           | 12.0                        | 8.0                                |
| MAY   |      |                                               |               |                             |                                    |
| 10... | 0700 | 113                                           | 5.9           | 18.0                        | 7.3                                |
| JUNE  |      |                                               |               |                             |                                    |
| 09... | 0730 | 494                                           | 5.8           | 19.0                        | 7.8                                |
| JULY  |      |                                               |               |                             |                                    |
| 08... | 0645 | 1310                                          | 5.5           | 21.5                        | 4.7                                |
| AUG.  |      |                                               |               |                             |                                    |
| 09... | 0915 | 217                                           | 5.7           | 23.5                        | 5.5                                |
| SEP.  |      |                                               |               |                             |                                    |
| 15... | 0800 | 247                                           | 6.9           | 20.5                        | 7.1                                |

| DATE  | ALKA-<br>LINITY<br>AS<br>CaCO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) |
|-------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|
| OCT.  |                                          |                                                      |                                                    |                                           |                                     |
| 08... | 8                                        | .17                                                  | .15                                                | .31                                       | 14                                  |
| JAN.  |                                          |                                                      |                                                    |                                           |                                     |
| 07... | 1                                        | .02                                                  | <.02                                               | .13                                       | 9                                   |
| FEB.  |                                          |                                                      |                                                    |                                           |                                     |
| 09... | 3                                        | .02                                                  | <.02                                               | .10                                       | 10                                  |
| MAR.  |                                          |                                                      |                                                    |                                           |                                     |
| 10... | 8                                        | .17                                                  | <.02                                               | .49                                       | 12                                  |
| MAY   |                                          |                                                      |                                                    |                                           |                                     |
| 10... | 10                                       | .32                                                  | .03                                                | .57                                       | 20                                  |
| JUNE  |                                          |                                                      |                                                    |                                           |                                     |
| 09... | 5                                        | .14                                                  | .02                                                | .29                                       | 12                                  |
| JULY  |                                          |                                                      |                                                    |                                           |                                     |
| 08... | 2                                        | .03                                                  | .04                                                | .13                                       | 8                                   |
| AUG.  |                                          |                                                      |                                                    |                                           |                                     |
| 09... | 5                                        | .08                                                  | .02                                                | .24                                       | 16                                  |
| SEP.  |                                          |                                                      |                                                    |                                           |                                     |
| 15... | 6                                        | .05                                                  | .02                                                | .26                                       | 15                                  |

02317749 WITHLACOCHEE RIVER ABOVE VALDOSTA, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>08... | 57                                                         | 100                                          | 12                           | 1.5                                                          | 2300                                             | 25                                          |
| JAN.<br>07... | 51                                                         | 120                                          | 12                           | 1.1                                                          | 91                                               | 10                                          |
| FEB.<br>09... | 48                                                         | 120                                          | 6                            | .7                                                           | 230                                              | 16                                          |
| MAR.<br>10... | 67                                                         | 100                                          | 8                            | 1.4                                                          | 930                                              | 13                                          |
| MAY<br>10...  | 89                                                         | 100                                          | 6                            | 1.4                                                          | 930                                              | 18                                          |
| JUNE<br>09... | 56                                                         | 120                                          | 8                            | 1.3                                                          | 91                                               | 22                                          |
| JULY<br>08... | 37                                                         | 150                                          | 10                           | 1.1                                                          | 150                                              | 25                                          |
| AUG.<br>09... | 71                                                         | 80                                           | 8                            | .9                                                           | 430                                              | 14                                          |
| SEP.<br>15... | 71                                                         | 100                                          | 4                            | 1.2                                                          | 150                                              | 21                                          |

## SUWANNEE RIVER BASIN

02317757 WITHLACOOCHIEE RIVER NEAR VALDOSTA, GA.

LOCATION.--Lat 30°51'00", long 83°20'23", Lowndes County, 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                               |               |                             |                                    |
| 07... | 1620 | 59                                            | 6.7           | 22.0                        | 3.7                                |
| DEC.  |      |                                               |               |                             |                                    |
| 08... | 1050 | 19                                            | 6.8           | 17.0                        | 2.7                                |
| JAN.  |      |                                               |               |                             |                                    |
| 06... | 1615 | 1370                                          | 5.5           | 8.0                         | 9.6                                |
| FEB.  |      |                                               |               |                             |                                    |
| 09... | 0930 | 1210                                          | 5.4           | 8.5                         | 9.2                                |
| MAR.  |      |                                               |               |                             |                                    |
| 09... | 1730 | 220                                           | 6.1           | 16.0                        | 6.8                                |
| MAY   |      |                                               |               |                             |                                    |
| 10... | 0830 | 52                                            | 6.3           | 19.0                        | 4.1                                |
| JUNE  |      |                                               |               |                             |                                    |
| 08... | 1515 | 686                                           | 6.0           | 21.0                        | 7.5                                |
| JULY  |      |                                               |               |                             |                                    |
| 07... | 1745 | 1560                                          | 5.5           | 22.5                        | 5.6                                |
| AUG.  |      |                                               |               |                             |                                    |
| 09... | 1015 | 171                                           | 6.0           | 24.5                        | 5.8                                |
| SEP.  |      |                                               |               |                             |                                    |
| 14... | 1500 | 179                                           | 6.7           | 21.0                        | 6.4                                |

| DATE  | ALKA-<br>LINITY<br>AS<br>CaCO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) |
|-------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| OCT.  |                                          |                                                      |                                                    |                                           |                                    |
| 07... | 23                                       | .15                                                  | 1.7                                                | 1.0                                       | 26                                 |
| JAN.  |                                          |                                                      |                                                    |                                           |                                    |
| 06... | 1                                        | .04                                                  | .05                                                | .14                                       | 10                                 |
| FEB.  |                                          |                                                      |                                                    |                                           |                                    |
| 09... | 3                                        | .03                                                  | .05                                                | .12                                       | 9                                  |
| MAR.  |                                          |                                                      |                                                    |                                           |                                    |
| 09... | 11                                       | .16                                                  | .31                                                | .55                                       | 18                                 |
| MAY   |                                          |                                                      |                                                    |                                           |                                    |
| 10... | 27                                       | .18                                                  | 1.8                                                | 1.4                                       | 38                                 |
| JUNE  |                                          |                                                      |                                                    |                                           |                                    |
| 08... | 7                                        | .13                                                  | .21                                                | .41                                       | 13                                 |
| JULY  |                                          |                                                      |                                                    |                                           |                                    |
| 07... | 3                                        | <.02                                                 | .05                                                | .16                                       | 10                                 |
| AUG.  |                                          |                                                      |                                                    |                                           |                                    |
| 09... | 10                                       | .14                                                  | .32                                                | .42                                       | 20                                 |
| SEP.  |                                          |                                                      |                                                    |                                           |                                    |
| 14... | 10                                       | .12                                                  | .35                                                | .47                                       | 17                                 |



02317757 WITHLACOOCHEE RIVER NEAR VALDOSTA, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>07... | 126                                                        | 80                                           | 8                            | 6.0                                                          | 4300                                             | 33                                          |
| JAN.<br>06... | 53                                                         | 100                                          | 12                           | 1.3                                                          | 230                                              | 19                                          |
| FEB.<br>09... | 52                                                         | 100                                          | 7                            | --                                                           | 30                                               | 17                                          |
| MAR.<br>09... | 79                                                         | 100                                          | 12                           | --                                                           | --                                               | 16                                          |
| MAY<br>10...  | 158                                                        | 100                                          | 8                            | >7.9                                                         | 4300                                             | 22                                          |
| JUNE<br>08... | 62                                                         | 120                                          | 9                            | 2.8                                                          | 91                                               | 26                                          |
| JULY<br>07... | 41                                                         | 120                                          | 12                           | 1.1                                                          | 23000                                            | 20                                          |
| AUG.<br>09... | 85                                                         | 70                                           | 11                           | 2.8                                                          | 230                                              | 14                                          |
| SEP.<br>14... | 76                                                         | 80                                           | 5                            | 2.6                                                          | 230                                              | 23                                          |

## SUWANNEE RIVER BASIN

02318725 OKAPILCO CREEK NEAR QUITMAN, GA.

LOCATION.--Lat 30°47'10", long 83°31'33", Brooks County, at U.S. Highways 84 and 221, and 1.8 mi (2.9 km) east of Quitman.

DRAINAGE AREA.--278 mi<sup>2</sup> (720 km<sup>2</sup>), 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|--------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT<br>07... | 1515 | 9.8                                           | 6.6           | 21.5                        | 4.8                                |
| DEC<br>08... | 1350 | 3.4                                           | 6.5           | 14.0                        | 3.5                                |
| JAN<br>06... | 1535 | 694                                           | 5.2           | 8.0                         | 8.9                                |
| FEB<br>09... | 1200 | 336                                           | 6.0           | 9.0                         | 9.1                                |
| MAR<br>09... | 1630 | 96                                            | 6.0           | 16.0                        | 6.9                                |
| MAY<br>10... | 1145 | 24                                            | 6.0           | 19.0                        | 6.0                                |
| JUN<br>08... | 1430 | 562                                           | 5.7           | 20.5                        | 7.1                                |
| JUL<br>07... | 1500 | 416                                           | 5.6           | 23.0                        | 4.9                                |
| AUG<br>09... | 1230 | 416                                           | 5.5           | 24.0                        | 5.1                                |
| SEP<br>15... | 1410 | 5.6                                           | 6.6           | 20.0                        | 4.5                                |

| DATE         | ALKA-<br>LINITY<br>AS<br>CaCO <sub>3</sub><br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(Ca, Mg)<br>(MG/L) |
|--------------|------------------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|
| OCT<br>07... | 26                                                   | .65                                                  | .42                                                | .80                                       | 33                                  |
| DEC<br>08... | 37                                                   | .60                                                  | 1.3                                                | 1.5                                       | 52                                  |
| JAN<br>06... | 1                                                    | .05                                                  | .23                                                | .11                                       | 11                                  |
| FEB<br>09... | 5                                                    | .04                                                  | .02                                                | .08                                       | 12                                  |
| MAR<br>09... | 11                                                   | .36                                                  | .34                                                | .33                                       | 16                                  |
| MAY<br>10... | 14                                                   | .83                                                  | .45                                                | .39                                       | 24                                  |
| JUN<br>08... | 4                                                    | .06                                                  | .04                                                | .15                                       | 9                                   |
| JUL<br>07... | 5                                                    | .13                                                  | .07                                                | .15                                       | 11                                  |
| AUG<br>09... | 3                                                    | .02                                                  | .04                                                | .14                                       | 9                                   |
| SEP<br>15... | 21                                                   | 1.1                                                  | 1.2                                                | .64                                       | 24                                  |

02318725 OKAPILCO CREEK NEAR QUITMAN, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|--------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT<br>07... | 153                                                        | 60                                           | 17                           | 3.4                                                          | 15000                                            | 17                                          |
| DEC<br>08... | 265                                                        | 40                                           | 8                            | 6.5                                                          | 430                                              | 24                                          |
| JAN<br>06... | 59                                                         | 100                                          | 27                           | 1.3                                                          | 430                                              | 16                                          |
| FEB<br>09... | 64                                                         | 70                                           | 10                           | .9                                                           | 230                                              | 11                                          |
| MAR<br>09... | 89                                                         | 90                                           | 9                            | --                                                           | --                                               | 13                                          |
| MAY<br>10... | 114                                                        | 100                                          | 12                           | 2.9                                                          | 1500                                             | 18                                          |
| JUN<br>08... | 42                                                         | 120                                          | 32                           | .8                                                           | 36                                               | 17                                          |
| JUL<br>07... | 45                                                         | 100                                          | 16                           | 1.3                                                          | 430                                              | 16                                          |
| AUG<br>09... | 48                                                         | 120                                          | 18                           | 1.8                                                          | 1500                                             | 16                                          |
| SEP<br>15... | 119                                                        | 80                                           | 8                            | 4.8                                                          | 930                                              | 12                                          |

## SUWANNEE RIVER BASIN

02318960 WITHLACOOCHEE RIVER NEAR CLYATTSVILLE, GA.

LOCATION.--Lat 30°38'07", long 83°18'41", Lowndes County, at bridge on State Highway 31, 4.3 mi (6.9 km) south of Clyattsville.  
 DRAINAGE AREA.--1,490 mi<sup>2</sup> (3,860 km<sup>2</sup>), 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.<br>07... | 1400 | 351                                           | 6.6           | 21.5                        | 5.3                                |
| DEC.<br>08... | 1230 | 185                                           | 6.6           | 16.0                        | 5.1                                |
| JAN.<br>06... | 1430 | 3470                                          | 5.6           | 9.0                         | 9.6                                |
| FEB.<br>09... | 1045 | 4580                                          | 5.5           | 9.0                         | 9.9                                |
| MAR.<br>09... | 1530 | 972                                           | 6.0           | 17.0                        | 6.8                                |
| APR.<br>06... | 1145 | 1940                                          | 5.9           | 17.5                        | 7.4                                |
| MAY<br>10...  | 0930 | 521                                           | 6.4           | 20.0                        | 6.5                                |
| JUNE<br>08... | 1345 | 3680                                          | 6.1           | 20.0                        | 7.3                                |
| JULY<br>07... | 1650 | 3640                                          | 5.1           | 23.5                        | 5.8                                |
| AUG.<br>09... | 1145 | 1340                                          | 6.1           | 25.0                        | 5.8                                |
| SEP.<br>14... | 1345 | 598                                           | 6.6           | 22.0                        | 5.6                                |

| DATE          | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) |
|---------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| OCT.<br>07... | 43                                       | .39                                                  | .34                                                | .20                                       | 49                                 |
| DEC.<br>08... | 65                                       | .21                                                  | --                                                 | .21                                       | 74                                 |
| JAN.<br>06... | 2                                        | .04                                                  | <.02                                               | .13                                       | 11                                 |
| FEB.<br>09... | 3                                        | .03                                                  | .04                                                | .08                                       | 11                                 |
| MAR.<br>09... | 21                                       | .27                                                  | .06                                                | .21                                       | 27                                 |
| APR.<br>06... | 10                                       | .16                                                  | .04                                                | .15                                       | 14                                 |
| MAY<br>10...  | 34                                       | .45                                                  | .05                                                | .20                                       | 42                                 |
| JUNE<br>08... | 12                                       | .12                                                  | .04                                                | .13                                       | 16                                 |
| JULY<br>07... | 6                                        | .08                                                  | .05                                                | .12                                       | 13                                 |
| AUG.<br>09... | 12                                       | .16                                                  | .02                                                | .14                                       | 20                                 |
| SEP.<br>14... | 25                                       | .28                                                  | <.02                                               | .20                                       | 33                                 |

02318960 WITHLACOOCHEE RIVER NEAR CLYATTSVILLE, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>07... | 130                                                        | 60                                           | 4                            | .9                                                           | 430                                              | 17                                          |
| DEC.<br>08... | 180                                                        | 25                                           | 2                            | .8                                                           | 73                                               | 31                                          |
| JAN.<br>06... | 53                                                         | 100                                          | 19                           | 1.3                                                          | 110                                              | 17                                          |
| FEB.<br>09... | 52                                                         | 100                                          | 10                           | 1.2                                                          | 150                                              | 14                                          |
| MAR.<br>09... | 90                                                         | 80                                           | 5                            | --                                                           | --                                               | 11                                          |
| APR.<br>06... | 63                                                         | 100                                          | 15                           | --                                                           | --                                               | 15                                          |
| MAY<br>10...  | 111                                                        | 80                                           | 5                            | .6                                                           | 36                                               | 14                                          |
| JUNE<br>08... | 56                                                         | 140                                          | 18                           | 1.3                                                          | 36                                               | 17                                          |
| JULY<br>07... | 46                                                         | 100                                          | 16                           | 1.4                                                          | 430                                              | 16                                          |
| AUG.<br>09... | 67                                                         | 80                                           | 14                           | .9                                                           | 36                                               | 11                                          |
| SEP.<br>14... | --                                                         | 100                                          | 4                            | .9                                                           | <30                                              | 13                                          |

02327500 OCHLOCKONEE RIVER NEAR THOMASVILLE, GA.

LOCATION.--Lat 30°52'32", long 84°02'44", Thomas County, 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 Barnett's Creek, 5 mi (8.0 km) northwest of Thomasville, and 6 mi (9.6 km) downstream from Little Ochlockonee River.

DRAINAGE AREA.--550 mi<sup>2</sup> (1,420 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--February 1968 to September 1974, October 1975 to September 1976.

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. Records of discharge for the water years 1937-1971 are published in reports of the Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|------------------------------------------|---------------|-----------------------------|------------------------------------|
| DEC.<br>08... | 1450 | 139                                      | 6.4           | 12.5                        | 7.0                                |
| FEB.<br>09... | 1345 | 825                                      | 5.9           | 9.5                         | 9.9                                |
| MAY<br>10...  | 1330 | 770                                      | 5.9           | 18.5                        | 6.8                                |
| JULY<br>08... | 0830 | 1880                                     | 5.9           | 22.0                        | 6.3                                |
| AUG.<br>09... | 1345 | 230                                      | 6.1           | 25.0                        | 4.1                                |

| DATE          | ALKA-<br>LINITY<br>AS<br>CaCO <sub>3</sub><br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) |
|---------------|------------------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|
| DEC.<br>08... | 21                                                   | 1.0                                                  | --                                                 | 1.0                                       | 28                                  |
| FEB.<br>09... | 8                                                    | .25                                                  | .06                                                | .14                                       | 12                                  |
| MAY<br>10...  | --                                                   | .25                                                  | .14                                                | .27                                       | 16                                  |
| JULY<br>08... | 19                                                   | .16                                                  | .09                                                | .17                                       | 11                                  |
| AUG.<br>09... | 18                                                   | .40                                                  | .25                                                | .31                                       | 24                                  |

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| DEC.<br>08... | 153                                                        | 65                                           | 12                           | 2.0                                                          | 230                                              | 17                                          |
| FEB.<br>09... | 64                                                         | 70                                           | 12                           | .8                                                           | 230                                              | 10                                          |
| MAY<br>10...  | 59                                                         | 80                                           | 70                           | 2.1                                                          | 930                                              | 20                                          |
| JULY<br>08... | 47                                                         | 120                                          | 35                           | 1.6                                                          | 7500                                             | 14                                          |
| AUG.<br>09... | 99                                                         | 90                                           | 27                           | 1.4                                                          | 9300                                             | 11                                          |



02328200 OCHLOCKONEE RIVER NEAR CALVARY, GA.

LOCATION.--Lat 30°43'53", long 84°14'12", Grady County, 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 mi<sup>2</sup> (2,410 km<sup>2</sup>), 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                               |               |                             |                                    |
| 08... | 1015 | 346                                           | 7.1           | 20.0                        | 6.7                                |
| DEC.  |      |                                               |               |                             |                                    |
| 08... | 1600 | 282                                           | 6.7           | 12.5                        | 8.1                                |
| JAN.  |      |                                               |               |                             |                                    |
| 07... | 1030 | 1820                                          | 6.4           | 8.0                         | 9.9                                |
| FEB.  |      |                                               |               |                             |                                    |
| 09... | 1415 | 1630                                          | 5.8           | 9.5                         | 9.9                                |
| MAR.  |      |                                               |               |                             |                                    |
| 10... | 1030 | 757                                           | 6.5           | 16.0                        | 8.2                                |
| MAY   |      |                                               |               |                             |                                    |
| 10... | 1445 | 932                                           | 6.0           | 19.0                        | 7.1                                |
| JUNE  |      |                                               |               |                             |                                    |
| 09... | 0945 | 1510                                          | 6.2           | 20.0                        | 7.3                                |
| JULY  |      |                                               |               |                             |                                    |
| 08... | 1000 | 2120                                          | 5.8           | 22.0                        | 6.4                                |
| AUG.  |      |                                               |               |                             |                                    |
| 09... | 1430 | 952                                           | 5.9           | 24.0                        | 6.0                                |
| SEP.  |      |                                               |               |                             |                                    |
| 15... | 1000 | 150                                           | 6.7           | 21.0                        | 6.2                                |

| DATE  | ALKA-<br>LITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) |
|-------|----------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| OCT.  |                                        |                                                      |                                                    |                                           |                                    |
| 08... | 15                                     | .50                                                  | .11                                                | .37                                       | 19                                 |
| DEC.  |                                        |                                                      |                                                    |                                           |                                    |
| 08... | 13                                     | .60                                                  | .13                                                | .25                                       | 19                                 |
| JAN.  |                                        |                                                      |                                                    |                                           |                                    |
| 07... | 6                                      | .22                                                  | .04                                                | .11                                       | 13                                 |
| FEB.  |                                        |                                                      |                                                    |                                           |                                    |
| 09... | 7                                      | .22                                                  | .04                                                | .11                                       | 12                                 |
| MAR.  |                                        |                                                      |                                                    |                                           |                                    |
| 10... | 10                                     | .47                                                  | .12                                                | .25                                       | 16                                 |
| MAY   |                                        |                                                      |                                                    |                                           |                                    |
| 10... | 10                                     | .34                                                  | .11                                                | .22                                       | 16                                 |
| JUNE  |                                        |                                                      |                                                    |                                           |                                    |
| 09... | 10                                     | .39                                                  | .09                                                | .06                                       | 14                                 |
| JULY  |                                        |                                                      |                                                    |                                           |                                    |
| 08... | 6                                      | .22                                                  | .07                                                | .14                                       | 12                                 |
| AUG.  |                                        |                                                      |                                                    |                                           |                                    |
| 09... | 10                                     | .31                                                  | .05                                                | .18                                       | 15                                 |
| SEP.  |                                        |                                                      |                                                    |                                           |                                    |
| 15... | 21                                     | .96                                                  | .07                                                | .35                                       | 29                                 |

## OCHLOCKONEE RIVER BASIN

02328200 OCHLOCKONEE RIVER NEAR CALVARY, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>08... | 93                                                         | 80                                           | 18                           | 1.0                                                          | 430                                              | 15                                          |
| DEC.<br>08... | 101                                                        | 65                                           | 12                           | 1.4                                                          | 430                                              | 8.0                                         |
| JAN.<br>07... | 113                                                        | 80                                           | 16                           | 1.1                                                          | 430                                              | 10                                          |
| FEB.<br>09... | 59                                                         | 60                                           | 13                           | 1.1                                                          | 230                                              | 10                                          |
| MAR.<br>10... | 97                                                         | 90                                           | 29                           | 2.3                                                          | 2300                                             | 10                                          |
| MAY<br>10...  | 63                                                         | 100                                          | 70                           | 1.8                                                          | 2300                                             | 21                                          |
| JUNE<br>09... | 62                                                         | 80                                           | 17                           | 1.7                                                          | 210                                              | 4.0                                         |
| JULY<br>08... | 82                                                         | 120                                          | 32                           | 1.0                                                          | 430                                              | 14                                          |
| AUG.<br>09... | 111                                                        | 80                                           | 19                           | 1.1                                                          | 430                                              | 11                                          |
| SEP.<br>15... | 132                                                        | 50                                           | 11                           | 1.0                                                          | 230                                              | 9.0                                         |

## 02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA.

LOCATION.--Lat 34°32'27", long 83°37'14", White County, on downstream side of Duncan Bridge, 1 mi (1.6 km) downstream from So-  
 quee River, 6 mi (9.7 km) northwest of Cornelia, and at mile 401.4 (645.9 km).  
 DRAINAGE AREA.--315 mi<sup>2</sup> (816 km<sup>2</sup>).

## 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.--19 years, 868 ft<sup>3</sup>/s (24.6 m<sup>3</sup>/s), 37.42 in/yr (950.5 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,400 ft<sup>3</sup>/s (478 m<sup>3</sup>/s) Mar. 12, 1963, gage height, 20.55 ft (6.264 m), from  
 rating curve extended above 13,000 ft<sup>3</sup>/s (368 m<sup>3</sup>/s) on basis of contracted-opening measurement of peak flow; minimum daily,  
 91 ft<sup>3</sup>/s (2.58 m<sup>3</sup>/s) Sept. 7, 1957.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,200 ft<sup>3</sup>/s (176 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Dec. 31 | 1500 | 6880 195                                              | 7.50 2.286              | May 15 | 0800 | 13400 379                                             | 13.00 3.962             |
| Mar. 16 | 1100 | 8620 244                                              | 9.02 2.749              | May 29 | 0100 | *21100 598                                            | 17.95 5.471             |
| Mar. 31 | 1100 | 10300 292                                             | 10.46 3.188             |        |      |                                                       |                         |

Minimum daily discharge, 288 ft<sup>3</sup>/s (8.16 m<sup>3</sup>/s) Sept. 23.

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

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1     | 902   | 580   | 1090  | 2230  | 1300  | 814   | 3740  | 1090  | 1690  | 964   | 641   | 512   |
| 2     | 1200  | 521   | 860   | 1340  | 1290  | 787   | 2100  | 920   | 1760  | 919   | 638   | 505   |
| 3     | 834   | 625   | 788   | 1430  | 1100  | 776   | 1740  | 850   | 1570  | 877   | 634   | 497   |
| 4     | 713   | 612   | 749   | 1240  | 1030  | 766   | 1550  | 801   | 1480  | 3170  | 626   | 370   |
| 5     | 701   | 591   | 721   | 1080  | 998   | 759   | 1430  | 787   | 1350  | 2770  | 615   | 446   |
| 6     | 706   | 586   | 709   | 982   | 984   | 862   | 1330  | 780   | 1280  | 1500  | 615   | 497   |
| 7     | 671   | 958   | 673   | 1130  | 948   | 804   | 1230  | 1040  | 1230  | 1260  | 623   | 517   |
| 8     | 1310  | 871   | 705   | 1430  | 913   | 786   | 1160  | 885   | 1180  | 1120  | 665   | 499   |
| 9     | 1030  | 714   | 686   | 1050  | 922   | 1040  | 1110  | 815   | 1180  | 1010  | 642   | 462   |
| 10    | 813   | 872   | 675   | 968   | 890   | 970   | 1090  | 815   | 1190  | 969   | 621   | 453   |
| 11    | 713   | 796   | 656   | 927   | 880   | 867   | 1030  | 885   | 1190  | 928   | 600   | 299   |
| 12    | 689   | 1420  | 646   | 948   | 862   | 1190  | 1050  | 850   | 1100  | 919   | 578   | 316   |
| 13    | 683   | 1740  | 640   | 929   | 854   | 3260  | 1020  | 780   | 1020  | 881   | 574   | 458   |
| 14    | 640   | 1050  | 529   | 1230  | 831   | 1400  | 999   | 1090  | 1020  | 851   | 442   | 448   |
| 15    | 613   | 885   | 654   | 1010  | 830   | 1480  | 976   | 8890  | 983   | 829   | 527   | 489   |
| 16    | 625   | 836   | 689   | 949   | 841   | 5280  | 968   | 3280  | 982   | 838   | 621   | 467   |
| 17    | 2160  | 810   | 657   | 901   | 823   | 2020  | 920   | 2150  | 1170  | 822   | 576   | 316   |
| 18    | 1820  | 761   | 638   | 861   | 912   | 1460  | 920   | 1550  | 1240  | 789   | 553   | 304   |
| 19    | 1130  | 736   | 614   | 851   | 992   | 1290  | 928   | 1320  | 1120  | 792   | 521   | 387   |
| 20    | 964   | 729   | 613   | 830   | 862   | 1200  | 906   | 1190  | 2370  | 771   | 518   | 457   |
| 21    | 866   | 907   | 468   | 820   | 846   | 1420  | 906   | 1100  | 1400  | 765   | 376   | 445   |
| 22    | 794   | 748   | 626   | 802   | 1410  | 1240  | 899   | 1030  | 1170  | 750   | 560   | 413   |
| 23    | 751   | 762   | 607   | 794   | 1050  | 1130  | 857   | 1010  | 1070  | 784   | 606   | 288   |
| 24    | 728   | 768   | 472   | 789   | 926   | 1070  | 843   | 1100  | 1010  | 741   | 580   | 382   |
| 25    | 660   | 720   | 638   | 771   | 887   | 1060  | 864   | 1030  | 981   | 725   | 529   | 310   |
| 26    | 689   | 696   | 1310  | 4060  | 859   | 1020  | 878   | 957   | 1010  | 754   | 525   | 451   |
| 27    | 702   | 743   | 895   | 3260  | 841   | 1050  | 836   | 920   | 1030  | 728   | 653   | 638   |
| 28    | 68    | 725   | 786   | 1680  | 808   | 1010  | 808   | 6760  | 991   | 707   | 676   | 585   |
| 29    | 665   | 695   | 748   | 1350  | 811   | 978   | 801   | 9690  | 976   | 691   | 591   | 504   |
| 30    | 637   | 689   | 862   | 1210  | ---   | 3190  | 808   | 2700  | 1090  | 678   | 584   | 615   |
| 31    | 634   | ---   | 4300  | 1090  | ---   | 7080  | ---   | 1930  | ---   | 656   | 550   | ---   |
| TOTAL | 26724 | 24146 | 25704 | 38942 | 27500 | 48059 | 34697 | 58995 | 36833 | 30958 | 18060 | 13330 |
| MEAN  | 862   | 805   | 829   | 1256  | 948   | 1550  | 1157  | 1903  | 1228  | 999   | 583   | 444   |
| MAX   | 2160  | 1740  | 4300  | 4060  | 1410  | 7080  | 3740  | 9690  | 2370  | 3170  | 676   | 638   |
| MIN   | 613   | 521   | 468   | 771   | 808   | 759   | 801   | 780   | 976   | 656   | 376   | 288   |
| CFSM  | 2.74  | 2.56  | 2.63  | 3.99  | 3.01  | 4.92  | 3.67  | 6.04  | 3.90  | 3.17  | 1.85  | 1.41  |
| IN.   | 3.16  | 2.85  | 3.04  | 4.60  | 3.25  | 5.68  | 4.10  | 6.97  | 4.35  | 3.66  | 2.13  | 1.57  |

CAL YR 1975 TOTAL 366176 MEAN 1003 MAX 7030 MIN 307 CFSM 3.18 IN 43.24  
 WTR YR 1976 TOTAL 383948 MEAN 1049 MAX 9690 MIN 288 CFSM 3.33 IN 45.34

## APALACHICOLA RIVER BASIN

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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE      | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | TEMPER-<br>ATURE<br>(DEG C) | PH<br>(UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) |
|-----------|------|-----------------------------------------------|-----------------------------|---------------|------------------------------|
| OCT 22... | 1125 | 801                                           | 11.0                        | 6.8           | 7                            |
| JAN 14... | 1015 | 1220                                          | 3.0                         | 6.6           | 39                           |
| MAR 10... | 0925 | 976                                           | 7.0                         | 7.1           | 18                           |
| JUN 10... | 1645 | 1120                                          | 20.0                        | 7.1           | 8                            |
| SEP 16... | 1315 | 465                                           | 18.5                        | 6.8           | 6                            |

| DATE      | TYPE | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L)<br>(00300) | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L)<br>(00410) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L)<br>(00630) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L)<br>(00610) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L)<br>(00665) |
|-----------|------|-----------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------|
| OCT 22... | 2    | 10.2                                          | 8                                                   | .10                                                             | .30                                                           | <.02                                                 |
| JAN 14... | 2    | --                                            | 6                                                   | .20                                                             | .13                                                           | .08                                                  |
| MAR 10... | 2    | 11.6                                          | 8                                                   | .16                                                             | <.02                                                          | .05                                                  |
| JUN 10... | 2    | 8.9                                           | 6                                                   | .10                                                             | <.02                                                          | .02                                                  |
| SEP 16... | 2    | 8.9                                           | 8                                                   | .13                                                             | <.02                                                          | .02                                                  |

| DATE      | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|-----------|------------------------------------|------------------------------------------------------------|----------------------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT 22... | 6                                  | 21                                                         | 5                                            | .5                                                           | 23000                                            | 18                                          |
| JAN 14... | 6                                  | 25                                                         | 45                                           | .6                                                           | 930                                              | 3.0                                         |
| MAR 10... | 6                                  | 24                                                         | 25                                           | .8                                                           | 9300                                             | 4.0                                         |
| JUN 10... | 5                                  | 19                                                         | 15                                           | 1.2                                                          | 750                                              | 2.0                                         |
| SEP 16... | 5                                  | 23                                                         | 15                                           | .8                                                           | 4300                                             | 2.0                                         |

## 02333500 CHESTATEE RIVER NEAR DAHLONEGA, GA.

LOCATION.--Lat 34°31'41", long 83°56'23", Lumpkin County, 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 mi<sup>2</sup> (396 km<sup>2</sup>).

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.--38 years (1929-31, 1940-76), 370 ft<sup>3</sup>/s (10.5 m<sup>3</sup>/s), 32.84 in/yr (834.1 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,700 ft<sup>3</sup>/s (643 m<sup>3</sup>/s) Aug. 23, 1967, gage height, 25.17 ft (7.672 m); minimum daily, 49 ft<sup>3</sup>/s (1.39 m<sup>3</sup>/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 ft<sup>3</sup>/s (73.6 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) |      | Gage height<br>(ft) (m) |       | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) |      | Gage height<br>(ft) (m) |       |
|---------|------|-------------------------------------------------------|------|-------------------------|-------|--------|------|-------------------------------------------------------|------|-------------------------|-------|
| Jan. 26 | 1600 | 3100                                                  | 87.8 | 7.26                    | 2.213 | May 15 | 0645 | *11500                                                | 326  | 16.56                   | 5.047 |
| Mar. 13 | 0345 | 2710                                                  | 76.7 | 6.54                    | 1.993 | May 29 | 0145 | 2910                                                  | 82.4 | 7.01                    | 2.137 |
| Mar. 16 | 1045 | 4300                                                  | 122  | 8.97                    | 2.734 | July 4 | 1900 | 2610                                                  | 73.9 | 6.45                    | 1.966 |
| Mar. 31 | 2030 | 5550                                                  | 157  | 10.49                   | 3.197 |        |      |                                                       |      |                         |       |

Minimum discharge, 110 ft<sup>3</sup>/s (3.12 m<sup>3</sup>/s) Sept. 24, 25, 26, gage height, 0.99 ft (0.302 m).

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

| DAY               | OCT    | NOV  | DEC      | JAN      | FEB     | MAR       | APR      | MAY   | JUN   | JUL   | AUG  | SEP  |
|-------------------|--------|------|----------|----------|---------|-----------|----------|-------|-------|-------|------|------|
| 1                 | 835    | 184  | 561      | 1020     | 639     | 374       | 2130     | 644   | 617   | 397   | 228  | 172  |
| 2                 | 794    | 181  | 390      | 609      | 616     | 366       | 1250     | 469   | 579   | 333   | 218  | 169  |
| 3                 | 410    | 178  | 330      | 758      | 540     | 361       | 993      | 411   | 545   | 318   | 222  | 169  |
| 4                 | 315    | 175  | 299      | 613      | 506     | 355       | 868      | 385   | 510   | 1440  | 217  | 166  |
| 5                 | 287    | 174  | 288      | 495      | 486     | 350       | 781      | 375   | 477   | 1220  | 214  | 166  |
| 6                 | 264    | 169  | 277      | 437      | 475     | 451       | 720      | 372   | 444   | 641   | 216  | 163  |
| 7                 | 243    | 364  | 269      | 585      | 449     | 389       | 676      | 653   | 429   | 534   | 267  | 158  |
| 8                 | 384    | 295  | 262      | 741      | 435     | 363       | 644      | 440   | 416   | 446   | 261  | 152  |
| 9                 | 350    | 229  | 260      | 509      | 423     | 483       | 615      | 399   | 425   | 403   | 218  | 148  |
| 10                | 286    | 289  | 253      | 447      | 411     | 464       | 594      | 375   | 405   | 372   | 211  | 145  |
| 11                | 253    | 267  | 240      | 426      | 406     | 411       | 577      | 438   | 450   | 349   | 208  | 145  |
| 12                | 234    | 688  | 233      | 420      | 392     | 662       | 563      | 396   | 381   | 331   | 205  | 142  |
| 13                | 225    | 818  | 227      | 419      | 387     | 1730      | 550      | 370   | 362   | 312   | 205  | 142  |
| 14                | 215    | 462  | 224      | 599      | 383     | 760       | 539      | 683   | 351   | 297   | 205  | 140  |
| 15                | 213    | 364  | 223      | 475      | 377     | 776       | 523      | 6850  | 343   | 293   | 202  | 138  |
| 16                | 202    | 316  | 271      | 434      | 370     | 2660      | 508      | 1660  | 348   | 299   | 202  | 138  |
| 17                | 1010   | 290  | 241      | 404      | 365     | 1180      | 495      | 974   | 336   | 306   | 199  | 135  |
| 18                | 787    | 273  | 225      | 363      | 505     | 823       | 484      | 742   | 341   | 279   | 199  | 133  |
| 19                | 464    | 260  | 209      | 345      | 504     | 685       | 472      | 628   | 428   | 271   | 196  | 131  |
| 20                | 364    | 265  | 211      | 338      | 414     | 643       | 461      | 565   | 834   | 281   | 199  | 132  |
| 21                | 311    | 459  | 206      | 330      | 419     | 844       | 456      | 524   | 471   | 277   | 199  | 139  |
| 22                | 282    | 306  | 200      | 320      | 742     | 697       | 449      | 486   | 394   | 262   | 202  | 127  |
| 23                | 261    | 310  | 197      | 312      | 546     | 623       | 432      | 468   | 358   | 258   | 205  | 116  |
| 24                | 245    | 302  | 193      | 310      | 475     | 584       | 422      | 447   | 343   | 251   | 246  | 112  |
| 25                | 234    | 279  | 220      | 311      | 441     | 561       | 433      | 427   | 333   | 241   | 199  | 111  |
| 26                | 226    | 264  | 508      | 1790     | 420     | 541       | 417      | 409   | 414   | 250   | 197  | 173  |
| 27                | 222    | 318  | 340      | 1470     | 405     | 604       | 401      | 398   | 404   | 274   | 237  | 209  |
| 28                | 213    | 284  | 284      | 832      | 393     | 556       | 391      | 1270  | 384   | 259   | 432  | 215  |
| 29                | 211    | 267  | 261      | 667      | 384     | 535       | 386      | 1960  | 361   | 264   | 231  | 176  |
| 30                | 203    | 263  | 319      | 592      | ---     | 2020      | 389      | 1050  | 576   | 247   | 208  | 287  |
| 31                | 189    | ---  | 1720     | 543      | ---     | 3810      | ---      | 739   | ---   | 237   | 172  | ---  |
| TOTAL             | 10732  | 9293 | 9941     | 17914    | 13308   | 25661     | 18619    | 26007 | 13059 | 11942 | 6820 | 4649 |
| MEAN              | 346    | 310  | 321      | 578      | 459     | 828       | 621      | 839   | 435   | 385   | 220  | 155  |
| MAX               | 1010   | 818  | 1720     | 1790     | 742     | 3810      | 2130     | 6850  | 834   | 1440  | 432  | 287  |
| MIN               | 189    | 169  | 193      | 310      | 365     | 350       | 386      | 370   | 333   | 237   | 172  | 111  |
| CFSM              | 2.26   | 2.03 | 2.10     | 3.78     | 3.00    | 5.41      | 4.06     | 5.48  | 2.84  | 2.52  | 1.44 | 1.01 |
| IN.               | 2.61   | 2.26 | 2.42     | 4.36     | 3.24    | 6.24      | 4.53     | 6.32  | 3.18  | 2.90  | 1.66 | 1.13 |
| CAL YR 1975 TOTAL | 152635 |      | MEAN 418 | MAX 3120 | MIN 130 | CFSM 2.73 | IN 37.11 |       |       |       |      |      |
| WTR YR 1976 TOTAL | 167945 |      | MEAN 459 | MAX 6850 | MIN 111 | CFSM 3.00 | IN 40.83 |       |       |       |      |      |

## 02334430 CHATTAHOOCHEE RIVER AT BUFORD DAM, NEAR BUFORD, GA.

LOCATION.--Lat 34°09'25", long 84°04'44", Forsyth County, 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 mi<sup>2</sup> (2,690 km<sup>2</sup>), 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 sta. 02334400.).

AVERAGE DISCHARGE.--35 years, 2,168 ft<sup>3</sup>/s (61.4 m<sup>3</sup>/s), 28.31 in/yr (719.1 mm/yr), adjusted for storage since 1956.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,000 ft<sup>3</sup>/s (1,560 m<sup>3</sup>/s) Jan. 8, 1946, gage height, 32.6 ft (9.94 m), from floodmark, from rating curve extended above 13,000 ft<sup>3</sup>/s (368 m<sup>3</sup>/s) on basis of peak flows passing upstream and downstream stations; minimum daily, 262 ft<sup>3</sup>/s (7.42 m<sup>3</sup>/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, 9,970 ft<sup>3</sup>/s (282 m<sup>3</sup>/s) June 29, gage height, 11.30 ft (3.444 m); minimum daily, 524 ft<sup>3</sup>/s (14.8 m<sup>3</sup>/s) Feb. 14.

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

| DAY               | OCT     | NOV   | DEC   | JAN       | FEB      | MAR     | APR        | MAY        | JUN       | JUL   | AUG   | SEP   |
|-------------------|---------|-------|-------|-----------|----------|---------|------------|------------|-----------|-------|-------|-------|
| 1                 | 4680    | 545   | 1880  | 539       | 2020     | 2730    | 4490       | 574        | 6440      | 3890  | 877   | 1830  |
| 2                 | 1680    | 551   | 1920  | 1890      | 5480     | 3750    | 5390       | 574        | 6350      | 3400  | 1740  | 1830  |
| 3                 | 1380    | 3360  | 1800  | 549       | 5490     | 3760    | 5060       | 3880       | 6260      | 646   | 1450  | 3760  |
| 4                 | 860     | 2630  | 1540  | 1130      | 5470     | 3750    | 5360       | 3890       | 6360      | 960   | 1730  | 547   |
| 5                 | 869     | 2560  | 1550  | 4240      | 5480     | 3760    | 5370       | 4400       | 622       | 969   | 1740  | 885   |
| 6                 | 1600    | 2660  | 590   | 4490      | 5500     | 535     | 5370       | 4250       | 622       | 6440  | 1730  | 881   |
| 7                 | 3150    | 2670  | 864   | 4530      | 1690     | 857     | 5670       | 3960       | 6300      | 6460  | 545   | 2330  |
| 8                 | 4010    | 537   | 1950  | 4520      | 1650     | 1640    | 7240       | 588        | 6360      | 6460  | 876   | 2320  |
| 9                 | 762     | 872   | 5200  | 4660      | 4330     | 1660    | 7280       | 877        | 6380      | 6500  | 3930  | 2320  |
| 10                | 1110    | 2870  | 5620  | 576       | 4000     | 1650    | 8950       | 1920       | 6380      | 576   | 3930  | 2330  |
| 11                | 545     | 1850  | 3610  | 1110      | 4020     | 1650    | 9240       | 2130       | 6400      | 875   | 3940  | 553   |
| 12                | 1180    | 2890  | 3840  | 3160      | 4010     | 1670    | 9380       | 2860       | 2210      | 4640  | 5030  | 892   |
| 13                | 1600    | 4520  | 532   | 3260      | 4010     | 582     | 8260       | 1930       | 1280      | 4630  | 3950  | 2600  |
| 14                | 1600    | 4670  | 867   | 3270      | 524      | 871     | 1860       | 1940       | 4570      | 3810  | 538   | 2210  |
| 15                | 1590    | 536   | 1290  | 3270      | 853      | 2080    | 1860       | 629        | 4560      | 3630  | 877   | 2290  |
| 16                | 2930    | 878   | 3840  | 3300      | 1660     | 840     | 3260       | 6450       | 4570      | 3840  | 3970  | 2290  |
| 17                | 554     | 2620  | 2170  | 3550      | 1290     | 2890    | 8840       | 7630       | 4610      | 535   | 3990  | 2340  |
| 18                | 556     | 2960  | 5710  | 1230      | 1280     | 5630    | 5860       | 6480       | 4580      | 875   | 2390  | 1140  |
| 19                | 556     | 2880  | 3860  | 3350      | 1290     | 5370    | 4040       | 6480       | 630       | 1680  | 2160  | 1470  |
| 20                | 1710    | 3020  | 532   | 5260      | 2230     | 545     | 6010       | 6440       | 951       | 1680  | 3970  | 4310  |
| 21                | 1710    | 2850  | 865   | 2990      | 527      | 545     | 6030       | 6460       | 4320      | 2500  | 546   | 2270  |
| 22                | 1750    | 550   | 1860  | 2800      | 1670     | 2720    | 6040       | 605        | 4280      | 2350  | 882   | 2270  |
| 23                | 1690    | 771   | 1750  | 1560      | 3100     | 1990    | 6060       | 655        | 4290      | 1800  | 5160  | 2370  |
| 24                | 2930    | 3310  | 1190  | 527       | 1990     | 5340    | 4330       | 6470       | 4310      | 2990  | 4690  | 2130  |
| 25                | 866     | 3370  | 1190  | 854       | 1990     | 5360    | 567        | 6500       | 4300      | 866   | 4810  | 2860  |
| 26                | 874     | 3290  | 2400  | 614       | 1980     | 5360    | 6430       | 6500       | 638       | 3760  | 4000  | 1390  |
| 27                | 2190    | 570   | 534   | 1740      | 1980     | 546     | 6420       | 4990       | 959       | 1010  | 2310  | 3760  |
| 28                | 1850    | 790   | 872   | 3880      | 534      | 542     | 6480       | 4780       | 3400      | 1560  | 549   | 2170  |
| 29                | 1830    | 590   | 2250  | 3840      | 856      | 5410    | 4940       | 2220       | 3410      | 1680  | 885   | 2540  |
| 30                | 1820    | 790   | 1300  | 3870      | ---      | 5460    | 4930       | 2410       | 3410      | 1680  | 2960  | 2180  |
| 31                | 1840    | ---   | 3550  | 5130      | ---      | 1330    | ---        | 6480       | ---       | 538   | 1830  | ---   |
| TOTAL             | 52272   | 62960 | 66926 | 85689     | 76904    | 80823   | 171017     | 115952     | 119752    | 83230 | 77985 | 63068 |
| MEAN              | 1686    | 2099  | 2159  | 2764      | 2652     | 2607    | 5701       | 3740       | 3992      | 2685  | 2516  | 2102  |
| MAX               | 4680    | 4670  | 5710  | 5260      | 5500     | 5630    | 9380       | 7630       | 6440      | 6500  | 5160  | 4310  |
| MIN               | 545     | 536   | 532   | 527       | 524      | 535     | 567        | 574        | 622       | 535   | 538   | 547   |
| (†)               | +249    | -346  | -223  | +654      | -349     | +3176   | -2860      | +1454      | -1338     | -444  | -1444 | -1196 |
| MEAN‡             | 1935    | 1753  | 1936  | 3418      | 2303     | 5783    | 2841       | 5194       | 2654      | 2241  | 1072  | 806   |
| CFSM‡             | 1.86    | 1.69  | 1.86  | 3.29      | 2.21     | 5.56    | 2.73       | 4.99       | 2.55      | 2.15  | 1.03  | .78   |
| IN‡               | 2.14    | 1.89  | 2.14  | 3.79      | 2.38     | 6.41    | 3.05       | 5.75       | 2.84      | 2.48  | 1.19  | .87   |
| CAL YR 1975 TOTAL | 767551  |       |       | MEAN 2103 | MAX 6020 | MIN 510 | MEAN‡ 2459 | CFSM‡ 2.36 | IN‡ 32.04 |       |       |       |
| WTR YR 1976 TOTAL | 1056578 |       |       | MEAN 2887 | MAX 9380 | MIN 524 | MEAN‡ 2670 | CFSM‡ 2.57 | IN‡ 34.98 |       |       |       |

† Change in contents, equivalent in cubic feet per second, in Lake Sidney Lanier, furnished by Corps of Engineers.

‡ Adjusted for change in contents in Lake Sidney Lanier.



## 02335000 CHATTAHOOCHEE RIVER NEAR NORCROSS, GA.

LOCATION.--Lat 33°59'50", long 84°12'07", Gwinnett County, 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 mi<sup>2</sup> (3,030 km<sup>2</sup>), 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 sta. 02334400).

COOPERATION.--Gage-height record, 9 discharge measurements, and computation of daily discharge furnished by Corps of Engineers; records reviewed by Geological Survey.

AVERAGE DISCHARGE.--64 years, 2,316 ft<sup>3</sup>/s (65.6 m<sup>3</sup>/s), 26.88 in/yr (682.8 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,000 ft<sup>3</sup>/s (1,560 m<sup>3</sup>/s) Jan. 8, 1946, gage height, 27.7 ft (8.443 m), from rating curve extended above 36,000 ft<sup>3</sup>/s (1,020 m<sup>3</sup>/s) on basis of computation of peak flow over Morgan Falls Dam; minimum observed, 132 ft<sup>3</sup>/s (3.74 m<sup>3</sup>/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, 11,100 ft<sup>3</sup>/s (314 m<sup>3</sup>/s) May 28, gage height, 11.49 ft (3.502 m); minimum daily, 642 ft<sup>3</sup>/s (18.2 m<sup>3</sup>/s) Sept. 12.

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

| DAY               | OCT     | NOV   | DEC   | JAN       | FEB       | MAR     | APR        | MAY        | JUN        | JUL   | AUG   | SEP   |
|-------------------|---------|-------|-------|-----------|-----------|---------|------------|------------|------------|-------|-------|-------|
| 1                 | 5540    | 1310  | 2110  | 2840      | 2940      | 3060    | 5360       | 2100       | 6920       | 3730  | 688   | 1940  |
| 2                 | 2560    | 667   | 2340  | 1900      | 5700      | 2780    | 6420       | 770        | 6920       | 4140  | 1670  | 1940  |
| 3                 | 1270    | 2180  | 2260  | 1250      | 6170      | 4260    | 6170       | 2880       | 6920       | 1600  | 1560  | 3650  |
| 4                 | 1610    | 2530  | 2260  | 896       | 6170      | 4260    | 6170       | 4290       | 7020       | 942   | 1930  | 1700  |
| 5                 | 800     | 3050  | 2260  | 4300      | 6200      | 4260    | 6170       | 4290       | 3150       | 1290  | 1870  | 662   |
| 6                 | 1500    | 2470  | 1460  | 4600      | 6110      | 2530    | 6170       | 4290       | 872        | 4920  | 1880  | 1010  |
| 7                 | 3560    | 2850  | 725   | 5010      | 3980      | 780     | 6170       | 4290       | 4490       | 7240  | 1220  | 1840  |
| 8                 | 3990    | 2480  | 2320  | 5270      | 2360      | 2120    | 7990       | 2180       | 6780       | 7180  | 675   | 2450  |
| 9                 | 2220    | 692   | 4910  | 5250      | 3760      | 2030    | 8070       | 995        | 6780       | 7180  | 3640  | 2450  |
| 10                | 1100    | 1850  | 5780  | 2780      | 4800      | 2050    | 9470       | 1610       | 6800       | 3170  | 4160  | 2450  |
| 11                | 1040    | 2660  | 4720  | 800       | 4720      | 2050    | 9950       | 2450       | 6800       | 775   | 4160  | 1450  |
| 12                | 994     | 2800  | 4970  | 2730      | 4600      | 2210    | 10100      | 2770       | 3400       | 4280  | 4440  | 642   |
| 13                | 1540    | 5330  | 1390  | 3420      | 4500      | 2870    | 10100      | 2250       | 2180       | 4930  | 5000  | 1670  |
| 14                | 1790    | 4710  | 740   | 3420      | 2600      | 1300    | 3080       | 2200       | 3600       | 4190  | 1440  | 2800  |
| 15                | 1790    | 3430  | 1330  | 3420      | 825       | 2920    | 2260       | 2540       | 4930       | 3840  | 667   | 2350  |
| 16                | 3260    | 725   | 3500  | 3420      | 1750      | 5540    | 2300       | 4900       | 4930       | 4260  | 3680  | 2350  |
| 17                | 1430    | 2440  | 3040  | 3720      | 1870      | 3750    | 8840       | 8870       | 4930       | 1680  | 3740  | 2350  |
| 18                | 893     | 3370  | 3940  | 2360      | 1560      | 5320    | 8670       | 7090       | 4930       | 683   | 3260  | 1620  |
| 19                | 740     | 3520  | 5310  | 3680      | 1880      | 6200    | 2550       | 7090       | 2830       | 1700  | 2140  | 1070  |
| 20                | 466     | 3710  | 2270  | 4920      | 2490      | 3230    | 6310       | 7090       | 893        | 1880  | 3580  | 3340  |
| 21                | 1890    | 3480  | 707   | 3700      | 902       | 1070    | 6540       | 7090       | 3370       | 2420  | 1920  | 3240  |
| 22                | 1920    | 2010  | 1920  | 3280      | 978       | 2240    | 6540       | 2710       | 5400       | 2500  | 652   | 2300  |
| 23                | 1920    | 800   | 2180  | 2820      | 3570      | 3240    | 6540       | 780        | 4570       | 2480  | 3660  | 2300  |
| 24                | 2950    | 2630  | 1070  | 810       | 3600      | 4060    | 5240       | 4790       | 4570       | 2960  | 5400  | 2300  |
| 25                | 2170    | 3690  | 1240  | 740       | 2420      | 6000    | 2810       | 6870       | 4570       | 1490  | 4980  | 2160  |
| 26                | 972     | 3640  | 2540  | 2750      | 2350      | 6000    | 4890       | 6870       | 1690       | 3190  | 4940  | 2190  |
| 27                | 2210    | 2180  | 1140  | 3020      | 2350      | 2920    | 6840       | 6660       | 872        | 2060  | 3220  | 3830  |
| 28                | 1890    | 735   | 702   | 4440      | 885       | 840     | 6440       | 6520       | 3160       | 1620  | 938   | 2430  |
| 29                | 2010    | 990   | 2300  | 4520      | 740       | 3880    | 6220       | 4580       | 3660       | 1830  | 662   | 2440  |
| 30                | 1960    | 716   | 1860  | 4470      | ---       | 7020    | 5320       | 3060       | 3760       | 1880  | 2690  | 2700  |
| 31                | 1960    | ---   | 3390  | 5390      | ---       | 6560    | ---        | 6140       | ---        | 1310  | 1970  | ---   |
| TOTAL             | 60445   | 73695 | 76684 | 101926    | 92780     | 107350  | 190100     | 131015     | 131697     | 93350 | 82432 | 65624 |
| MEAN              | 1950    | 2457  | 2474  | 3288      | 3199      | 3463    | 6337       | 4226       | 4390       | 3011  | 2659  | 2187  |
| MAX               | 5540    | 5330  | 5780  | 5390      | 6200      | 7020    | 10100      | 8870       | 7020       | 7240  | 5400  | 3830  |
| MIN               | 740     | 667   | 702   | 740       | 740       | 780     | 2260       | 770        | 872        | 683   | 652   | 642   |
| CAL YR 1975 TOTAL | 907125  |       |       | MEAN 2485 | MAX 7380  | MIN 638 | MEAN+ 2841 | CFSM+ 2.43 | INT+ 32.99 |       |       |       |
| WTR YR 1976 TOTAL | 1207098 |       |       | MEAN 3298 | MAX 10100 | MIN 642 | MEAN+ 3081 | CFSM+ 2.63 | INT+ 35.80 |       |       |       |

† Adjusted for change in contents in Lake Sidney Lanier.



## 02335700 BIG CREEK NEAR ALPHARETTA, GA.

LOCATION.--Lat 34°03'02", long 84°16'10", Fulton County, 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 mi<sup>2</sup> (186 km<sup>2</sup>), 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 except those for period of no gage-height record, which are fair.

AVERAGE DISCHARGE.--16 years, 119 ft<sup>3</sup>/s (3.37 m<sup>3</sup>/s), 22.44 in/yr (570.0 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,800 ft<sup>3</sup>/s (164 m<sup>3</sup>/s) Feb. 21, 1961, gage height, 12.54 ft (3.82 m); minimum daily, 10 ft<sup>3</sup>/s (0.28 m<sup>3</sup>/s) Oct. 6, 7, 1970.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft<sup>3</sup>/s (22.7 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Jan. 27 | 1630 | 1350 38.2                                             | 9.36 2.853              | Mar. 31 | 1800 | *2620 74.2                                            | 10.80 3.292             |
| Mar. 14 | 0530 | 1120 31.7                                             | 8.76 2.670              | June 3  | 2100 | 858 24.3                                              | 7.93 2.417              |
| Mar. 16 | 2230 | 2250 63.7                                             | 10.45 3.185             |         |      |                                                       |                         |

Minimum daily discharge, 18 ft<sup>3</sup>/s (0.51 m<sup>3</sup>/s) Sept. 20, 23-26.

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

| DAY               | OCT   | NOV  | DEC      | JAN      | FEB    | MAR       | APR      | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------------------|-------|------|----------|----------|--------|-----------|----------|------|------|------|------|------|
| 1                 | 75    | 57   | 180      | 655      | 242    | 87        | 1990     | 141  | 140  | 74   | 52   | 24   |
| 2                 | 133   | 55   | 140      | 380      | 286    | 86        | 740      | 105  | 134  | 55   | 49   | 26   |
| 3                 | 67    | 55   | 110      | 222      | 181    | 85        | 276      | 108  | 344  | 51   | 46   | 26   |
| 4                 | 55    | 55   | 100      | 203      | 152    | 85        | 216      | 181  | 455  | 84   | 45   | 31   |
| 5                 | 92    | 54   | 92       | 142      | 139    | 84        | 188      | 189  | 145  | 224  | 43   | 36   |
| 6                 | 123   | 54   | 88       | 122      | 141    | 115       | 172      | 153  | 103  | 140  | 59   | 32   |
| 7                 | 87    | 91   | 86       | 167      | 129    | 110       | 160      | 114  | 88   | 183  | 77   | 32   |
| 8                 | 168   | 88   | 84       | 326      | 119    | 90        | 154      | 121  | 78   | 88   | 53   | 33   |
| 9                 | 104   | 66   | 82       | 193      | 114    | 136       | 145      | 129  | 85   | 69   | 47   | 29   |
| 10                | 82    | 74   | 82       | 128      | 109    | 120       | 137      | 98   | 75   | 65   | 45   | 39   |
| 11                | 72    | 70   | 75       | 126      | 107    | 96        | 132      | 99   | 67   | 57   | 43   | 27   |
| 12                | 66    | 100  | 72       | 140      | 104    | 224       | 131      | 117  | 63   | 54   | 42   | 25   |
| 13                | 61    | 200  | 70       | 122      | 100    | 749       | 125      | 146  | 58   | 51   | 40   | 23   |
| 14                | 57    | 130  | 69       | 163      | 98     | 894       | 127      | 187  | 57   | 48   | 34   | 22   |
| 15                | 55    | 100  | 69       | 122      | 96     | 414       | 123      | 406  | 59   | 46   | 33   | 24   |
| 16                | 55    | 90   | 94       | 113      | 95     | 1490      | 117      | 298  | 56   | 45   | 29   | 23   |
| 17                | 273   | 80   | 90       | 107      | 94     | 1730      | 113      | 195  | 57   | 46   | 28   | 21   |
| 18                | 291   | 74   | 82       | 90       | 107    | 559       | 107      | 172  | 54   | 44   | 28   | 20   |
| 19                | 135   | 70   | 71       | 83       | 111    | 241       | 104      | 162  | 59   | 42   | 26   | 19   |
| 20                | 95    | 90   | 69       | 85       | 95     | 198       | 101      | 152  | 138  | 54   | 23   | 18   |
| 21                | 83    | 150  | 69       | 88       | 99     | 320       | 101      | 145  | 105  | 69   | 23   | 21   |
| 22                | 76    | 100  | 63       | 87       | 222    | 289       | 105      | 141  | 74   | 49   | 23   | 21   |
| 23                | 70    | 110  | 63       | 84       | 145    | 190       | 96       | 142  | 62   | 45   | 30   | 18   |
| 24                | 67    | 100  | 62       | 85       | 114    | 167       | 92       | 142  | 59   | 42   | 35   | 18   |
| 25                | 66    | 90   | 67       | 83       | 106    | 158       | 102      | 137  | 55   | 39   | 30   | 18   |
| 26                | 65    | 84   | 125      | 532      | 99     | 151       | 97       | 133  | 60   | 37   | 30   | 18   |
| 27                | 65    | 90   | 82       | 1140     | 97     | 184       | 90       | 139  | 64   | 90   | 31   | 19   |
| 28                | 63    | 86   | 75       | 724      | 91     | 160       | 87       | 406  | 62   | 134  | 34   | 19   |
| 29                | 63    | 80   | 69       | 241      | 89     | 140       | 84       | 583  | 54   | 66   | 31   | 21   |
| 30                | 62    | 100  | 90       | 180      | ---    | 503       | 90       | 478  | 81   | 56   | 28   | 33   |
| 31                | 59    | ---  | 537      | 159      | ---    | 1650      | ---      | 165  | ---  | 59   | 26   | ---  |
| TOTAL             | 2885  | 2643 | 3107     | 7092     | 3681   | 11505     | 6302     | 5884 | 2991 | 2206 | 1163 | 736  |
| MEAN              | 93.1  | 88.1 | 100      | 229      | 127    | 371       | 210      | 190  | 99.7 | 71.2 | 37.5 | 24.5 |
| MAX               | 291   | 200  | 537      | 1140     | 286    | 1730      | 1990     | 583  | 455  | 224  | 77   | 39   |
| MIN               | 55    | 54   | 62       | 83       | 89     | 84        | 84       | 98   | 54   | 37   | 23   | 18   |
| CFSM              | 1.29  | 1.22 | 1.39     | 3.18     | 1.76   | 5.15      | 2.92     | 2.64 | 1.38 | .99  | .52  | .34  |
| IN.               | 1.49  | 1.37 | 1.61     | 3.66     | 1.90   | 5.94      | 3.26     | 3.04 | 1.55 | 1.14 | .60  | .38  |
| CAL YR 1975 TOTAL | 48471 |      | MEAN 133 | MAX 1740 | MIN 32 | CFSM 1.85 | IN 25.04 |      |      |      |      |      |
| WTR YR 1976 TOTAL | 50195 |      | MEAN 137 | MAX 1990 | MIN 18 | CFSM 1.90 | IN 25.93 |      |      |      |      |      |

NOTE.--No gage-height record Nov. 12 to Dec. 9.

02336000 CHATTAHOOCHEE RIVER AT ATLANTA, GA.

LOCATION.--Lat 33°51'33", long 84°27'16", Fulton County, 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 mi<sup>2</sup> (3,760 km<sup>2</sup>), 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 sta. 02334400). Diversion at points 35, 20, and 7 mi (56, 32, and 11 km, respectively) above station by Gwinnett, DeKalb, and Cobb Counties, respectively, for municipal supplies, as shown in monthly table. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant 9.5 mi (15.3 km) above station.

AVERAGE DISCHARGE.--43 years, 2,603 ft<sup>3</sup>/s (73.7 m<sup>3</sup>/s), 24.38 in/yr (619.3 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,000 ft<sup>3</sup>/s (1,670 m<sup>3</sup>/s) Jan. 9, 1946, gage height, 28.0 ft (8.53 m); minimum daily, 296 ft<sup>3</sup>/s (8.38 m<sup>3</sup>/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, 19,200 ft<sup>3</sup>/s (544 m<sup>3</sup>/s) Mar. 16; maximum gage height, 18.17 ft (5.538 m), back-water from Peachtree Creek; minimum daily discharge, 1,080 ft<sup>3</sup>/s (30.6 m<sup>3</sup>/s) Oct. 12.

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

| DAY   | OCT   | NOV   | DEC   | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 1     | 4410  | 1810  | 3070  | 5420   | 6720   | 2290   | 8320   | 4520   | 7110   | 3830  | 1190  | 2180  |
| 2     | 5070  | 1600  | 2810  | 2500   | 4010   | 3200   | 8380   | 1220   | 7290   | 4440  | 1450  | 2010  |
| 3     | 1850  | 1380  | 2490  | 2500   | 6140   | 4040   | 6390   | 2190   | 8770   | 2780  | 2140  | 2510  |
| 4     | 1380  | 3050  | 2440  | 1480   | 6190   | 4210   | 6170   | 4110   | 9630   | 1750  | 1680  | 2890  |
| 5     | 1700  | 3090  | 2550  | 2500   | 6020   | 4450   | 6050   | 4460   | 6320   | 1940  | 1960  | 1200  |
| 6     | 2280  | 2980  | 2070  | 4860   | 6100   | 3600   | 6110   | 4780   | 1270   | 3080  | 2150  | 1200  |
| 7     | 2850  | 3120  | 1210  | 5660   | 5420   | 1410   | 6260   | 4930   | 2260   | 6820  | 2020  | 1240  |
| 8     | 4490  | 2260  | 2100  | 3640   | 2400   | 1860   | 7560   | 3700   | 6200   | 7100  | 1220  | 2760  |
| 9     | 3590  | 1300  | 3830  | 5980   | 3010   | 2520   | 7830   | 1300   | 6830   | 6930  | 1910  | 2570  |
| 10    | 1390  | 1980  | 5240  | 4310   | 4790   | 2430   | 8660   | 1800   | 6820   | 6040  | 4170  | 2600  |
| 11    | 1390  | 2770  | 5850  | 1890   | 4480   | 2390   | 9620   | 2590   | 6740   | 1190  | 4220  | 1890  |
| 12    | 1080  | 4040  | 4440  | 2800   | 4540   | 2870   | 9900   | 2540   | 5950   | 2110  | 4160  | 1210  |
| 13    | 1800  | 4380  | 2930  | 3650   | 4570   | 7360   | 9960   | 3170   | 2500   | 4980  | 5060  | 1360  |
| 14    | 1900  | 5190  | 1210  | 4010   | 3300   | 3520   | 5830   | 2960   | 2550   | 4790  | 3270  | 2540  |
| 15    | 1900  | 4000  | 1390  | 3830   | 1290   | 5140   | 2540   | 7070   | 4800   | 4120  | 1340  | 2490  |
| 16    | 2440  | 1310  | 2700  | 3620   | 1590   | 13500  | 2520   | 4020   | 4870   | 3860  | 1900  | 2370  |
| 17    | 4720  | 1970  | 3950  | 3650   | 2110   | 6480   | 6040   | 8130   | 4880   | 3260  | 4120  | 2290  |
| 18    | 2030  | 3360  | 3330  | 3680   | 1980   | 6090   | 9180   | 7170   | 4960   | 1210  | 4020  | 2010  |
| 19    | 1300  | 3100  | 5930  | 4540   | 1810   | 6570   | 4090   | 6870   | 4140   | 1210  | 2290  | 1190  |
| 20    | 1480  | 3700  | 3060  | 3930   | 2570   | 5190   | 4410   | 6750   | 1440   | 2170  | 2910  | 2160  |
| 21    | 2060  | 3770  | 1290  | 5230   | 1980   | 2700   | 6440   | 6720   | 2580   | 2380  | 3150  | 4200  |
| 22    | 2300  | 2620  | 1680  | 3570   | 1760   | 2470   | 6400   | 5540   | 4890   | 2870  | 1230  | 2430  |
| 23    | 2180  | 1370  | 2000  | 2940   | 3350   | 3390   | 6420   | 1270   | 4800   | 2400  | 1700  | 2450  |
| 24    | 2460  | 2380  | 1700  | 1200   | 3850   | 3140   | 6070   | 2080   | 4810   | 2340  | 5210  | 2340  |
| 25    | 2300  | 3710  | 1560  | 1160   | 2490   | 5720   | 4160   | 6240   | 4690   | 2550  | 4790  | 2070  |
| 26    | 1330  | 3820  | 2330  | 7870   | 2540   | 6060   | 2470   | 6720   | 3570   | 2030  | 5000  | 2540  |
| 27    | 1910  | 2760  | 2220  | 6130   | 2430   | 5150   | 6320   | 7110   | 1240   | 3700  | 4210  | 2560  |
| 28    | 2350  | 1310  | 1200  | 4890   | 1790   | 1700   | 6690   | 9620   | 2130   | 2180  | 2010  | 3690  |
| 29    | 2330  | 1180  | 1610  | 5500   | 1170   | 2280   | 6690   | 11300  | 3860   | 2050  | 1200  | 2430  |
| 30    | 2280  | 1230  | 2680  | 4770   | ---    | 7610   | 5200   | 4810   | 3830   | 2070  | 1540  | 2790  |
| 31    | 2140  | ---   | 5900  | 3950   | ---    | 13300  | ---    | 3830   | ---    | 1790  | 2680  | ---   |
| TOTAL | 72690 | 80540 | 86770 | 121660 | 100400 | 142640 | 192720 | 149520 | 141730 | 99970 | 85900 | 68170 |
| MEAN  | 2345  | 2685  | 2799  | 3925   | 3462   | 4601   | 6424   | 4823   | 4724   | 3225  | 2771  | 2272  |
| MAX   | 5070  | 5190  | 5930  | 7870   | 6720   | 13500  | 9960   | 11300  | 9630   | 7100  | 5210  | 4200  |
| MIN   | 1080  | 1180  | 1200  | 1160   | 1170   | 1410   | 2470   | 1220   | 1240   | 1190  | 1190  | 1190  |
| (+)   | 16    | 15    | 15    | 16     | 16     | 16     | 17     | 16     | 17     | 18    | 17    | 18    |
| (*)   | 87    | 75    | 75    | 77     | 76     | 77     | 92     | 84     | 89     | 98    | 99    | 94    |
| (++)  | 28    | 28    | 29    | 30     | 30     | 34     | 33     | 34     | 35     | 35    | 33    | 33    |

CAL YR 1975 TOTAL 1070050 MEAN 2932 MAX 12200 MIN 1070 MEAN++ 3288 CFSM++ 2.27 IN++ 30.81  
WTR YR 1976 TOTAL 1342710 MEAN 3669 MAX 13500 MIN 1080 MEAN++ 3452 CFSM++ 2.38 IN++ 32.40

(+) Diversion by Gwinnett County, in cubic feet per second; furnished by Gwinnett County.

(\*) Diversion by DeKalb County, in cubic feet per second; furnished by DeKalb County.

(++) Diversion by Cobb County, in cubic feet per second; furnished by Cobb County.

(++) Adjusted for change in contents in Lake Sidney Lanier.

## APALACHICOLA RIVER BASIN

02336000 CHATTAHOOCHEE RIVER AT ATLANTA, GA.--Continued

## WATER-QUALITY RECORDS

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | TEMPER-<br>ATURE<br>(DEG C) | PH<br>(UNITS) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|-----------------------------|---------------|------------------------------------|
| OCT   |      |                                               |                             |               |                                    |
| 14... | 1245 | 1940                                          | 17.5                        | 6.5           | 10.2                               |
| 28... | 1200 | 1990                                          | 14.0                        | 6.3           | 10.0                               |
| NOV   |      |                                               |                             |               |                                    |
| 11... | 1330 | 4660                                          | 15.0                        | 5.8           | 8.7                                |
| 20... | 1330 | 4520                                          | 13.0                        | 6.0           | --                                 |
| DEC   |      |                                               |                             |               |                                    |
| 04... | 1445 | 2500                                          | 11.3                        | 6.4           | 10.3                               |
| JAN   |      |                                               |                             |               |                                    |
| 14... | 1330 | 3590                                          | 8.8                         | 6.5           | 11.2                               |
| 20... | 1315 | 3580                                          | 7.0                         | 7.6           | 12.0                               |
| 29... | 1250 | 5280                                          | 7.4                         | 6.0           | 11.5                               |
| FEB   |      |                                               |                             |               |                                    |
| 11... | 1320 | 5100                                          | 8.5                         | 6.2           | 10.5                               |
| 17... | 1315 | 2330                                          | 12.3                        | 6.5           | 10.8                               |
| MAR   |      |                                               |                             |               |                                    |
| 24... | 1105 | 2460                                          | 10.5                        | 6.0           | 11.6                               |
| APR   |      |                                               |                             |               |                                    |
| 08... | 1115 | 8330                                          | 11.0                        | 6.4           | 11.4                               |
| MAY   |      |                                               |                             |               |                                    |
| 03... | 1045 | 1650                                          | 14.0                        | 6.2           | 9.8                                |
| 12... | 1415 | 3160                                          | 16.0                        | 6.1           | 9.5                                |
| 26... | 1345 | 4750                                          | 12.5                        | 5.7           | 9.8                                |
| 31... | 1300 | 4100                                          | 17.0                        | 5.8           | 10.1                               |
| JUN   |      |                                               |                             |               |                                    |
| 03... | 1400 | 5180                                          | 13.3                        | 6.1           | 10.6                               |
| 09... | 1115 | 8350                                          | 13.0                        | 5.9           | 8.3                                |
| 29... | 1130 | 4660                                          | 15.0                        | 6.1           | 10.2                               |
| JUL   |      |                                               |                             |               |                                    |
| 08... | 1130 | 5900                                          | 14.2                        | 5.7           | 9.4                                |
| 27... | 1230 | 4000                                          | 19.0                        | 5.9           | 8.4                                |
| AUG   |      |                                               |                             |               |                                    |
| 05... | 1430 | 2820                                          | 19.5                        | 5.9           | 10.2                               |
| 26... | 1200 | 5000                                          | 15.8                        | 5.8           | 8.8                                |
| SEP   |      |                                               |                             |               |                                    |
| 08... | 1305 | 3640                                          | 18.5                        | 5.7           | 10.2                               |

02336000 CHATTAHOOCHEE RIVER AT ATLANTA, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | DIS-<br>SOLVED<br>SILICA<br>(SiO <sub>2</sub> )<br>(MG/L) | TOTAL<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|-------|-----------------------------------------------------------|---------------------------------|------------------------------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------------|-----------------------------------------|
| OCT   |                                                           |                                 |                                                      |                                                    |                                                    |                                                          |                                         |
| 14... | 9.2                                                       | 790                             | .27                                                  | .00                                                | .14                                                | .14                                                      | .41                                     |
| 28... | 8.2                                                       | 1100                            | .30                                                  | .01                                                | .09                                                | .10                                                      | .40                                     |
| NOV   |                                                           |                                 |                                                      |                                                    |                                                    |                                                          |                                         |
| 11... | 7.5                                                       | 1600                            | .24                                                  | .05                                                | .20                                                | .25                                                      | .49                                     |
| 20... | 7.2                                                       | 1100                            | .19                                                  | .02                                                | .12                                                | .14                                                      | .33                                     |
| DEC   |                                                           |                                 |                                                      |                                                    |                                                    |                                                          |                                         |
| 04... | 7.7                                                       | 860                             | .18                                                  | .01                                                | .14                                                | .15                                                      | .33                                     |
| JAN   |                                                           |                                 |                                                      |                                                    |                                                    |                                                          |                                         |
| 14... | 6.4                                                       | 2100                            | .15                                                  | .02                                                | .00                                                | .00                                                      | .15                                     |
| 20... | 6.2                                                       | 880                             | .13                                                  | .03                                                | .01                                                | .04                                                      | .17                                     |
| 29... | 6.5                                                       | 3500                            | .19                                                  | .03                                                | .30                                                | .33                                                      | .52                                     |
| FEB   |                                                           |                                 |                                                      |                                                    |                                                    |                                                          |                                         |
| 11... | 6.3                                                       | 1100                            | .14                                                  | .03                                                | .14                                                | .17                                                      | .31                                     |
| 17... | 8.2                                                       | 870                             | .22                                                  | .00                                                | .15                                                | .15                                                      | .37                                     |
| MAR   |                                                           |                                 |                                                      |                                                    |                                                    |                                                          |                                         |
| 24... | 7.0                                                       | 1200                            | .19                                                  | .00                                                | .20                                                | .20                                                      | .39                                     |
| APR   |                                                           |                                 |                                                      |                                                    |                                                    |                                                          |                                         |
| 08... | 6.2                                                       | 870                             | .17                                                  | .03                                                | 1.6                                                | 1.6                                                      | 1.8                                     |
| MAY   |                                                           |                                 |                                                      |                                                    |                                                    |                                                          |                                         |
| 03... | 8.9                                                       | 750                             | .40                                                  | .00                                                | .21                                                | .21                                                      | .61                                     |
| 12... | 7.9                                                       | 820                             | .26                                                  | .00                                                | .14                                                | .14                                                      | .40                                     |
| 26... | 6.2                                                       | 1200                            | .22                                                  | .01                                                | .14                                                | .15                                                      | .37                                     |
| 31... | 7.5                                                       | 3900                            | .27                                                  | .01                                                | .27                                                | .28                                                      | .55                                     |
| JUN   |                                                           |                                 |                                                      |                                                    |                                                    |                                                          |                                         |
| 03... | 6.5                                                       | --                              | .28                                                  | .00                                                | .14                                                | .14                                                      | .42                                     |
| 09... | 6.1                                                       | 1500                            | .25                                                  | .00                                                | .11                                                | .11                                                      | .36                                     |
| 29... | 6.5                                                       | 1100                            | .31                                                  | .01                                                | .16                                                | .17                                                      | .48                                     |
| JUL   |                                                           |                                 |                                                      |                                                    |                                                    |                                                          |                                         |
| 08... | 6.0                                                       | 3800                            | .32                                                  | .02                                                | .14                                                | .16                                                      | .48                                     |
| 27... | 6.6                                                       | 5900                            | .36                                                  | .01                                                | .26                                                | .27                                                      | .63                                     |
| AUG   |                                                           |                                 |                                                      |                                                    |                                                    |                                                          |                                         |
| 05... | 7.0                                                       | 1400                            | .32                                                  | .00                                                | .15                                                | .15                                                      | .47                                     |
| 26... | 6.0                                                       | 1500                            | .28                                                  | .01                                                | .14                                                | .15                                                      | .43                                     |
| SEP   |                                                           |                                 |                                                      |                                                    |                                                    |                                                          |                                         |
| 08... | 8.1                                                       | 1200                            | .30                                                  | .01                                                | .13                                                | .14                                                      | .44                                     |

## APALACHICOLA RIVER BASIN

02336000 CHATTAHOOCHEE RIVER AT ATLANTA, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(TONS<br>PER<br>DAY) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(COL.<br>PER<br>100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|-------|------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------|---------------------------------------------------|---------------------------------------------|
| OCT   |                                                            |                                           |                                                                  |                                                  |                                                      |                                                   |                                             |
| 14... | 46                                                         | .02                                       | 29                                                               | 152                                              | 4                                                    | 123                                               | 2.2                                         |
| 28... | 56                                                         | .03                                       | 56                                                               | 301                                              | 9                                                    | 102                                               | 6.2                                         |
| NOV   |                                                            |                                           |                                                                  |                                                  |                                                      |                                                   |                                             |
| 11... | 40                                                         | .06                                       | 13                                                               | 164                                              | 27                                                   | 230                                               | 1.0                                         |
| 20... | 37                                                         | .02                                       | 22                                                               | 268                                              | 4                                                    | 70                                                | 1.0                                         |
| DEC   |                                                            |                                           |                                                                  |                                                  |                                                      |                                                   |                                             |
| 04... | 54                                                         | .05                                       | 30                                                               | 202                                              | 1                                                    | 60                                                | 1.4                                         |
| JAN   |                                                            |                                           |                                                                  |                                                  |                                                      |                                                   |                                             |
| 14... | 42                                                         | .05                                       | 38                                                               | 368                                              | 8                                                    | 182                                               | 1.4                                         |
| 20... | 39                                                         | .03                                       | 24                                                               | 232                                              | 29                                                   | 16                                                | 12                                          |
| 29... | 40                                                         | .06                                       | 24                                                               | 342                                              | 33                                                   | 230                                               | 2.4                                         |
| FEB   |                                                            |                                           |                                                                  |                                                  |                                                      |                                                   |                                             |
| 11... | 37                                                         | .02                                       | 25                                                               | 344                                              | 30                                                   | --                                                | 1.4                                         |
| 17... | 41                                                         | .04                                       | 31                                                               | 195                                              | 8                                                    | 0                                                 | 1.8                                         |
| MAR   |                                                            |                                           |                                                                  |                                                  |                                                      |                                                   |                                             |
| 24... | 39                                                         | .03                                       | 32                                                               | 213                                              | 16                                                   | 87                                                | 8.6                                         |
| APR   |                                                            |                                           |                                                                  |                                                  |                                                      |                                                   |                                             |
| 08... | 34                                                         | .04                                       | 23                                                               | 517                                              | 60                                                   | --                                                | 3.0                                         |
| MAY   |                                                            |                                           |                                                                  |                                                  |                                                      |                                                   |                                             |
| 03... | 40                                                         | .01                                       | 39                                                               | 174                                              | 5                                                    | <100                                              | 2.6                                         |
| 12... | 38                                                         | .01                                       | 42                                                               | 358                                              | 2                                                    | <100                                              | 4.1                                         |
| 26... | 28                                                         | .01                                       | 16                                                               | 205                                              | 25                                                   | 40                                                | 1.2                                         |
| 31... | 45                                                         | .06                                       | 35                                                               | 387                                              | 394                                                  | 1300                                              | 3.3                                         |
| JUN   |                                                            |                                           |                                                                  |                                                  |                                                      |                                                   |                                             |
| 03... | 34                                                         | .01                                       | 28                                                               | 392                                              | 22                                                   | 190                                               | 5.3                                         |
| 09... | 31                                                         | .02                                       | 24                                                               | 541                                              | 23                                                   | 67                                                | 5.1                                         |
| 29... | 42                                                         | .02                                       | 39                                                               | 491                                              | 6                                                    | 155                                               | 2.2                                         |
| JUL   |                                                            |                                           |                                                                  |                                                  |                                                      |                                                   |                                             |
| 08... | 28                                                         | .03                                       | 18                                                               | 287                                              | 11                                                   | 200                                               | 1.2                                         |
| 27... | 40                                                         | .08                                       | 28                                                               | 302                                              | 16                                                   | 800                                               | 6.0                                         |
| AUG   |                                                            |                                           |                                                                  |                                                  |                                                      |                                                   |                                             |
| 05... | 40                                                         | .02                                       | 32                                                               | 244                                              | 18                                                   | 123                                               | 1.4                                         |
| 26... | 44                                                         | .00                                       | 29                                                               | 391                                              | 21                                                   | 77                                                | 4.3                                         |
| SEP   |                                                            |                                           |                                                                  |                                                  |                                                      |                                                   |                                             |
| 08... | 37                                                         | .01                                       | 28                                                               | 275                                              | 6                                                    | 193                                               | .8                                          |

LOCATION.--Lat 33°49'10", long 84°24'28", Fulton County, 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 mi<sup>2</sup> (225 km<sup>2</sup>).

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

REMARKS.--Records fair.

AVERAGE DISCHARGE.--18 years, 139 ft<sup>3</sup>/s (3.94 m<sup>3</sup>/s), 21.75 in/yr (552.4 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,660  $\text{ft}^3/\text{s}$  (245  $\text{m}^3/\text{s}$ ) Mar. 16, 1976, gage height, 20.30 ft (6.187 m); minimum daily, 8  $\text{ft}^3/\text{s}$  (0.227  $\text{m}^3/\text{s}$ ) Aug. 10, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,660 ft<sup>3</sup>/s (245 m<sup>3</sup>/s) Mar. 16, gage height, 20.30 ft (6.187 m); minimum daily, 16 ft<sup>3</sup>/s (0.45 m<sup>3</sup>/s) Sept. 24.

| DAY         | OCT   | NOV   | DEC      | JAN  | FEB  | MAR    | APR       | MAY      | JUN  | JUL  | AUG  | SEP  |
|-------------|-------|-------|----------|------|------|--------|-----------|----------|------|------|------|------|
| 1           | 291   | 47    | 407      | 201  | 407  | 62     | 525       | 151      | 215  | 41   | 55   | 24   |
| 2           | 142   | 47    | 84       | 112  | 201  | 62     | 172       | 49       | 292  | 33   | 50   | 31   |
| 3           | 71    | 48    | 65       | 212  | 136  | 60     | 131       | 43       | 698  | 41   | 45   | 26   |
| 4           | 66    | 48    | 62       | 101  | 125  | 58     | 113       | 41       | 571  | 173  | 42   | 92   |
| 5           | 810   | 48    | 60       | 79   | 119  | 57     | 104       | 39       | 131  | 130  | 40   | 34   |
| 6           | 576   | 49    | 57       | 75   | 149  | 105    | 95        | 52       | 97   | 424  | 40   | 26   |
| 7           | 268   | 177   | 59       | 166  | 110  | 66     | 94        | 113      | 86   | 141  | 84   | 42   |
| 8           | 593   | 58    | 60       | 143  | 104  | 54     | 83        | 120      | 80   | 58   | 50   | 30   |
| 9           | 138   | 45    | 85       | 80   | 101  | 333    | 82        | 63       | 76   | 51   | 45   | 25   |
| 10          | 99    | 72    | 68       | 74   | 96   | 102    | 76        | 45       | 73   | 49   | 40   | 25   |
| 11          | 83    | 64    | 54       | 81   | 89   | 65     | 72        | 45       | 76   | 46   | 40   | 21   |
| 12          | 66    | 890   | 53       | 91   | 84   | 489    | 71        | 44       | 61   | 45   | 75   | 20   |
| 13          | 53    | 264   | 53       | 95   | 80   | 1270   | 70        | 64       | 55   | 44   | 50   | 19   |
| 14          | 51    | 93    | 53       | 244  | 75   | 188    | 70        | 438      | 53   | 42   | 45   | 20   |
| 15          | 49    | 68    | 52       | 77   | 74   | 1590   | 68        | 876      | 49   | 43   | 300  | 22   |
| 16          | 48    | 61    | 195      | 72   | 72   | 6000   | 65        | 142      | 49   | 48   | 252  | 20   |
| 17          | 1100  | 58    | 188      | 69   | 72   | 559    | 62        | 96       | 56   | 42   | 52   | 18   |
| 18          | 169   | 59    | 115      | 64   | 140  | 332    | 60        | 79       | 52   | 40   | 41   | 17   |
| 19          | 93    | 57    | 65       | 63   | 100  | 266    | 59        | 71       | 60   | 39   | 37   | 17   |
| 20          | 78    | 123   | 63       | 64   | 74   | 268    | 56        | 63       | 137  | 82   | 33   | 17   |
| 21          | 71    | 197   | 60       | 64   | 146  | 665    | 56        | 57       | 43   | 51   | 35   | 29   |
| 22          | 66    | 63    | 58       | 62   | 362  | 197    | 58        | 56       | 32   | 41   | 32   | 21   |
| 23          | 60    | 157   | 60       | 62   | 100  | 165    | 52        | 54       | 29   | 39   | 81   | 17   |
| 24          | 56    | 77    | 55       | 62   | 83   | 148    | 49        | 52       | 31   | 37   | 38   | 16   |
| 25          | 53    | 61    | 95       | 61   | 78   | 136    | 119       | 49       | 39   | 38   | 29   | 17   |
| 26          | 50    | 56    | 205      | 3670 | 74   | 130    | 51        | 49       | 35   | 39   | 105  | 22   |
| 27          | 50    | 90    | 68       | 634  | 66   | 304    | 42        | 295      | 31   | 90   | 57   | 29   |
| 28          | 49    | 59    | 60       | 231  | 62   | 131    | 40        | 1570     | 30   | 912  | 65   | 20   |
| 29          | 48    | 55    | 58       | 185  | 60   | 112    | 41        | 1390     | 97   | 102  | 30   | 52   |
| 30          | 48    | 91    | 143      | 160  | ---  | 362    | 74        | 183      | 123  | 88   | 26   | 44   |
| 31          | 47    | ---   | 1190     | 143  | ---  | 1920   | ---       | 124      | ---  | 65   | 25   | ---  |
| TOTAL       | 5442  | 3282  | 3950     | 7497 | 3439 | 16256  | 2710      | 6513     | 3457 | 3114 | 1939 | 813  |
| MEAN        | 176   | 109   | 127      | 242  | 119  | 524    | 90.3      | 210      | 115  | 100  | 62.5 | 27.1 |
| MAX         | 1100  | 890   | 1190     | 3670 | 407  | 6000   | 525       | 1570     | 698  | 912  | 300  | 92   |
| MIN         | 47    | 45    | 52       | 61   | 60   | 54     | 40        | 39       | 29   | 33   | 25   | 16   |
| CFSM        | 2.03  | 1.26  | 1.46     | 2.79 | 1.37 | 6.04   | 1.04      | 2.42     | 1.32 | 1.15 | .72  | .31  |
| IN.         | 2.33  | 1.41  | 1.69     | 3.21 | 1.47 | 6.97   | 1.16      | 2.79     | 1.48 | 1.33 | .83  | .35  |
| CAL YR 1975 | TOTAL | 77753 | MEAN 213 | MAX  | 5830 | MIN 38 | CFSM 2.45 | IN 33.32 |      |      |      |      |
| WTR YR 1976 | TOTAL | 58412 | MEAN 160 | MAX  | 6000 | MIN 16 | CFSM 1.84 | IN 25.03 |      |      |      |      |

## APALACHICOLA RIVER BASIN

02336300 PEACHTREE CREEK AT ATLANTA, GA.--Continued

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

| DAY  | OCT  | NOV  | DEC  | JAN   | FEB  | MAR   | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|------|------|------|------|-------|------|-------|------|------|------|------|------|------|
| 1    | 4.79 | 3.84 | 5.35 | 4.53  | 5.32 | 3.81  | 5.96 | 4.52 | 4.78 | 4.05 | ---  | 3.61 |
| 2    | 4.22 | 3.84 | 3.96 | 4.09  | 4.52 | 3.82  | 4.67 | 3.95 | 5.19 | 3.99 | ---  | 3.67 |
| 3    | 3.84 | 3.84 | 3.84 | 4.58  | 4.21 | 3.81  | 4.48 | 3.90 | 6.14 | 4.03 | ---  | 3.63 |
| 4    | 3.81 | 3.83 | 3.81 | 4.03  | 4.15 | 3.80  | 4.39 | 3.87 | 6.04 | 4.73 | ---  | 4.06 |
| 5    | 6.49 | 3.83 | 3.80 | 3.90  | 4.12 | 3.79  | 4.34 | 3.86 | 4.49 | 4.55 | ---  | 3.71 |
| 6    | 5.84 | 3.83 | 3.78 | 3.87  | 4.27 | 4.08  | 4.29 | 3.93 | 4.33 | 5.55 | ---  | 3.64 |
| 7    | 4.73 | 4.53 | 3.79 | 4.33  | 4.07 | 3.85  | 4.28 | 4.31 | 4.27 | 4.05 | ---  | 3.77 |
| 8    | 5.93 | 3.87 | 3.78 | 4.25  | 4.04 | 3.77  | 4.24 | 4.34 | 4.26 | 3.95 | ---  | 3.67 |
| 9    | 4.22 | 3.78 | 3.95 | 3.90  | 4.02 | 5.08  | 4.21 | 4.00 | 4.25 | 3.90 | ---  | 3.63 |
| 10   | 4.01 | 3.94 | 3.84 | 3.86  | 4.00 | 4.06  | 4.17 | 3.87 | 4.25 | 3.88 | ---  | 3.63 |
| 11   | 3.92 | 3.90 | 3.75 | 3.90  | 3.95 | 3.84  | 4.15 | 3.86 | 4.27 | 3.86 | ---  | 3.59 |
| 12   | 3.86 | 6.85 | 3.74 | 3.96  | ---  | 5.39  | 4.14 | 3.84 | 4.19 | 3.85 | ---  | 3.58 |
| 13   | 3.82 | 4.85 | 3.74 | 3.97  | ---  | 7.77  | 4.13 | 3.96 | 4.17 | 3.84 | ---  | 3.57 |
| 14   | 3.81 | 4.06 | 3.74 | 4.68  | ---  | 4.50  | 4.13 | 5.30 | 4.17 | 3.82 | ---  | 3.58 |
| 15   | 3.80 | 3.91 | 3.73 | 3.88  | ---  | 8.13  | 4.12 | 6.95 | 4.16 | 3.83 | ---  | 3.60 |
| 16   | 3.79 | 3.87 | 4.50 | 3.85  | ---  | 16.68 | 4.10 | 4.40 | 4.17 | 3.86 | 4.79 | 3.59 |
| 17   | 7.39 | 3.84 | 4.47 | 3.83  | ---  | 6.08  | 4.08 | 4.15 | 4.23 | 3.82 | 3.82 | 3.57 |
| 18   | 4.49 | 3.84 | 4.11 | 3.80  | ---  | 5.29  | 4.07 | 4.05 | 4.19 | 3.81 | 3.75 | 3.56 |
| 19   | 4.10 | 3.83 | 3.82 | 3.79  | ---  | 5.02  | 4.06 | 3.99 | 4.24 | 3.80 | 3.72 | 3.56 |
| 20   | 4.02 | 4.13 | 3.80 | 3.79  | ---  | 5.03  | 4.04 | 3.93 | 4.67 | 4.03 | 3.69 | 3.56 |
| 21   | 3.97 | 4.54 | 3.78 | 3.79  | 4.19 | 6.38  | 4.04 | 3.89 | 4.12 | 3.87 | 3.70 | 3.67 |
| 22   | 3.93 | 3.86 | 3.76 | 3.78  | 5.17 | 4.70  | 4.05 | 3.87 | 4.02 | 3.80 | 3.68 | 3.60 |
| 23   | 3.90 | 4.37 | 3.78 | 3.78  | 4.02 | 4.55  | 4.01 | 3.86 | 4.00 | 3.79 | 3.98 | 3.56 |
| 24   | 3.88 | 3.94 | 3.74 | 3.78  | 3.93 | 4.48  | 3.99 | 3.83 | 4.00 | 3.77 | 3.73 | 3.55 |
| 25   | 3.87 | 3.83 | 3.95 | 3.77  | 3.90 | 4.43  | 4.40 | 3.81 | 4.07 | 3.77 | 3.66 | 3.56 |
| 26   | 3.86 | 3.80 | 4.53 | 12.47 | 3.88 | 4.40  | 4.00 | 3.81 | 4.03 | 3.77 | 3.99 | 3.61 |
| 27   | ---  | 4.02 | 3.83 | 6.13  | 3.84 | 5.18  | 3.93 | 4.69 | 3.99 | 4.00 | 3.86 | 3.68 |
| 28   | ---  | 3.81 | 3.78 | 4.68  | 3.82 | 4.43  | 3.90 | 8.81 | 3.98 | 6.87 | 3.92 | 3.59 |
| 29   | ---  | 3.78 | 3.76 | 4.45  | 3.81 | 4.34  | 3.90 | 8.17 | 4.39 | 4.18 | 3.66 | 3.84 |
| 30   | ---  | 3.96 | 4.20 | 4.33  | ---  | 5.46  | 4.11 | 4.65 | 4.55 | 4.09 | 3.63 | 3.79 |
| 31   | ---  | ---  | 7.76 | 4.24  | ---  | 9.55  | ---  | 4.37 | ---  | 4.01 | 3.62 | ---  |
| MEAN |      | 4.07 | 4.07 | 4.39  |      | 5.34  | 4.21 | 4.48 | 4.39 | 4.10 |      | 3.64 |
| MAX  |      | 6.85 | 7.76 | 12.47 |      | 16.68 | 5.96 | 8.81 | 6.14 | 6.87 |      | 4.06 |
| MIN  |      | 3.78 | 3.73 | 3.77  |      | 3.77  | 3.90 | 3.81 | 3.98 | 3.77 |      | 3.55 |



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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | TEMPER-<br>ATURE<br>(DEG C) | PH<br>(UNITS) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |  |  |  |  |  |  |
|--------------|------|-----------------------------------------------|-----------------------------|---------------|------------------------------------|--|--|--|--|--|--|
| NOV<br>03... | 0945 | 47                                            | 12.0                        | 7.3           | 9.7                                |  |  |  |  |  |  |
| DEC<br>08... | 0930 | 65                                            | 11.5                        | 7.5           | 9.5                                |  |  |  |  |  |  |
| JAN<br>19... | 0945 | 65                                            | 1.0                         | 6.8           | 13.0                               |  |  |  |  |  |  |
| FEB<br>24... | 1645 | 85                                            | 12.0                        | 7.0           | 9.7                                |  |  |  |  |  |  |
| MAR<br>24... | 0930 | 147                                           | 10.0                        | 6.7           | 9.2                                |  |  |  |  |  |  |
| APR<br>20... | 1100 | 56                                            | 18.5                        | 7.3           | 8.6                                |  |  |  |  |  |  |
| MAY<br>17... | 0910 | 95                                            | 18.5                        | 7.4           | 7.0                                |  |  |  |  |  |  |
| JUN<br>23... | 1200 | 26                                            | 23.0                        | 7.1           | 7.2                                |  |  |  |  |  |  |
| JUL<br>26... | 1310 | 37                                            | 30.5                        | 7.4           | 6.7                                |  |  |  |  |  |  |
| AUG<br>30... | 1230 | 26                                            | 26.5                        | 7.2           | 6.7                                |  |  |  |  |  |  |

| DATE         | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|--------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| NOV<br>03... | 45                                       | .59                                                  | .05                                                | .04                                       | 46                                 | 129                                                        | 10                                           | 7                            | .7                                                           | 2300                                             | 3.0                                         |
| DEC<br>08... | 39                                       | .60                                                  | .07                                                | .05                                       | 40                                 | 125                                                        | 15                                           | 8                            | .8                                                           | 23000                                            | 3.0                                         |
| JAN<br>19... | 40                                       | .70                                                  | .27                                                | .03                                       | 44                                 | 134                                                        | 5                                            | 9                            | .6                                                           | 7500                                             | 3.0                                         |
| FEB<br>24... | 45                                       | .72                                                  | .49                                                | .17                                       | 40                                 | 128                                                        | 20                                           | 14                           | 3.1                                                          | 230000                                           | 4.0                                         |
| MAR<br>24... | 37                                       | .68                                                  | .20                                                | .09                                       | 42                                 | 130                                                        | 25                                           | 16                           | 1.1                                                          | 9300                                             | 3.0                                         |
| APR<br>20... | 43                                       | .72                                                  | .11                                                | .06                                       | 56                                 | 135                                                        | 8                                            | 9                            | 1.3                                                          | 9300                                             | 2.0                                         |
| MAY<br>17... | 40                                       | .51                                                  | .12                                                | .11                                       | 40                                 | 122                                                        | 20                                           | 25                           | 1.6                                                          | 21000                                            | 9.0                                         |
| JUN<br>23... | 45                                       | .61                                                  | .08                                                | .09                                       | 46                                 | 138                                                        | 30                                           | 23                           | 1.1                                                          | 430                                              | 3.0                                         |
| JUL<br>26... | 51                                       | .53                                                  | .05                                                | .06                                       | 50                                 | 151                                                        | 10                                           | 11                           | .8                                                           | 4300                                             | 3.0                                         |
| AUG<br>30... | 45                                       | .38                                                  | .09                                                | .06                                       | 44                                 | 136                                                        | 15                                           | 12                           | .9                                                           | 4300                                             | 4.0                                         |

## APALACHICOLA RIVER BASIN

02336502 CHATTAHOOCHEE RIVER AT I-285, AT ATLANTA, GA.

LOCATION.--Lat 33°48'32", long 84°29'43", Cobb County, 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 mi<sup>2</sup> (4,140 km<sup>2</sup>).

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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

| DATE      | TIME | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-----------|------|---------------|-----------------------------|------------------------------------|
| JUL 28... | 0915 | 8.1           | 26.0                        | 4.8                                |
| AUG 18... | 0820 | 7.3           | 28.5                        | 6.5                                |
| SEP 16... | 0815 | 7.0           | 20.0                        | 7.6                                |

| DATE      | ALKA-<br>LITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | TOTAL<br>RESI-<br>DUE<br>(MG/L) |
|-----------|----------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|---------------------------------|
| JUL 28... | 14                                     | .33                                                  | .28                                                | .28                                       | --                                                   | --                              |
| AUG 18... | 20                                     | .40                                                  | 1.8                                                | .32                                       | 25                                                   | 78                              |
| SEP 16... | 20                                     | .29                                                  | .77                                                | .27                                       | 23                                                   | 74                              |

| DATE      | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|-----------|------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| JUL 28... | 15                                 | 55                                                         | 110                                          | 224                          | 2.8                                                          | 75                                               | 9.0                                         |
| AUG 18... | 17                                 | 76                                                         | 10                                           | 16                           | 1.4                                                          | 4300                                             | 9.0                                         |
| SEP 16... | 16                                 | 69                                                         | 25                                           | 20                           | 2.1                                                          | 930                                              | 6.0                                         |

02336502 CHATTAHOOCHEE RIVER AT I-285, AT ATLANTA, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT   |      |                                               |               |                             |                                    |
| 21... | 0730 | 1300                                          | 7.1           | 13.0                        | 7.9                                |
| NOV   |      |                                               |               |                             |                                    |
| 18... | 1500 | 4700                                          | 7.1           | 15.0                        | 6.0                                |
| DEC   |      |                                               |               |                             |                                    |
| 18... | 0900 | 3780                                          | 6.9           | 8.0                         | 11.0                               |
| JAN   |      |                                               |               |                             |                                    |
| 13... | 0830 | 4360                                          | 7.1           | 8.0                         | 10.6                               |
| FEB   |      |                                               |               |                             |                                    |
| 24... | 1550 | 5310                                          | 7.2           | 10.0                        | 10.8                               |
| MAR   |      |                                               |               |                             |                                    |
| 24... | 1115 | 3260                                          | 7.1           | 10.0                        | 10.1                               |
| APR   |      |                                               |               |                             |                                    |
| 20... | 1020 | 1780                                          | 7.1           | 14.5                        | 9.6                                |
| MAY   |      |                                               |               |                             |                                    |
| 17... | 0820 | 10300                                         | 7.1           | 12.5                        | 10.3                               |
| JUN   |      |                                               |               |                             |                                    |
| 23... | 1255 | 6080                                          | 6.6           | 15.5                        | 9.6                                |
| JUL   |      |                                               |               |                             |                                    |
| 12... | 0938 | 1230                                          | 7.1           | 25.0                        | --                                 |
| 12... | 0945 | 1300                                          | 7.1           | 25.0                        | --                                 |
| 12... | 1000 | 1300                                          | 7.0           | 25.0                        | --                                 |
| 12... | 1325 | 1300                                          | 7.0           | 28.0                        | --                                 |
| 27... | 0710 |                                               | 7.0           | 22.0                        | 7.5                                |
| AUG   |      |                                               |               |                             |                                    |
| 30... | 1015 | 1210                                          | 7.1           | --                          | 9.4                                |
| 30... | 1130 | 1230                                          | 7.0           | 29.0                        | 6.6                                |
| 30... | 1300 | 1280                                          | 7.1           | 29.8                        | --                                 |
| 30... | 1415 | 1260                                          | 7.1           | 29.8                        | 7.8                                |
| 30... | 1600 | 1250                                          | 7.2           | 30.2                        | 9.0                                |
| SEP   |      |                                               |               |                             |                                    |
| 07... | 0030 | 1190                                          | --            | 26.6                        | 8.2                                |
| 07... | 0430 | 1170                                          | --            | 26.2                        | 7.8                                |
| 07... | 1015 | 1230                                          | --            | 26.7                        | 7.7                                |
| 07... | 1252 | 1260                                          | --            | 26.8                        | 7.5                                |
| 07... | 1445 | 1240                                          | --            | 26.8                        | 7.7                                |
| 07... | 1713 | 1220                                          | --            | 26.9                        | 8.0                                |
| 07... | 2120 | 1220                                          | --            | --                          | --                                 |

| DATE  | ALKA-<br>LITY<br>AS<br>CaCO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | TOTAL<br>RESI-<br>DUE<br>(MG/L) |
|-------|----------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|---------------------------------|
| OCT.  |                                        |                                                      |                                                    |                                           |                                                      |                                 |
| 21... | 21                                     | .30                                                  | .42                                                | .13                                       | 22                                                   | 90                              |
| NOV.  |                                        |                                                      |                                                    |                                           |                                                      |                                 |
| 18... | 16                                     | .25                                                  | .85                                                | .65                                       | 75                                                   | 94                              |
| DEC.  |                                        |                                                      |                                                    |                                           |                                                      |                                 |
| 18... | 14                                     | .22                                                  | .32                                                | .26                                       | 35                                                   | 66                              |
| JAN.  |                                        |                                                      |                                                    |                                           |                                                      |                                 |
| 13... | 13                                     | .24                                                  | .30                                                | .17                                       | 27                                                   | 70                              |
| FEB.  |                                        |                                                      |                                                    |                                           |                                                      |                                 |
| 24... | 13                                     | .18                                                  | .54                                                | .44                                       | 36                                                   | 86                              |
| MAR.  |                                        |                                                      |                                                    |                                           |                                                      |                                 |
| 24... | 16                                     | .28                                                  | .34                                                | .15                                       | 44                                                   | --                              |
| APR.  |                                        |                                                      |                                                    |                                           |                                                      |                                 |
| 20... | 14                                     | .25                                                  | .16                                                | .12                                       | 42                                                   | 45                              |
| MAY   |                                        |                                                      |                                                    |                                           |                                                      |                                 |
| 17... | 12                                     | .24                                                  | .14                                                | .11                                       | 137                                                  | 156                             |
| JUNE  |                                        |                                                      |                                                    |                                           |                                                      |                                 |
| 23... | 13                                     | .30                                                  | .28                                                | .15                                       | 25                                                   | 70                              |
| JULY  |                                        |                                                      |                                                    |                                           |                                                      |                                 |
| 12... | --                                     | .33                                                  | .92                                                | .38                                       | --                                                   | --                              |
| 12... | --                                     | .34                                                  | .91                                                | .39                                       | --                                                   | --                              |
| 12... | --                                     | .32                                                  | .92                                                | .37                                       | --                                                   | --                              |
| 12... | 19                                     | .32                                                  | 1.1                                                | .50                                       | --                                                   | --                              |
| 27... | 12                                     | .38                                                  | .19                                                | .15                                       | 65                                                   | 104                             |
| AUG.  |                                        |                                                      |                                                    |                                           |                                                      |                                 |
| 30... | --                                     | .38                                                  | 1.0                                                | .34                                       | 9                                                    | --                              |
| 30... | 18                                     | .37                                                  | 1.2                                                | .28                                       | 10                                                   | 84                              |
| 30... | --                                     | .37                                                  | 1.5                                                | .43                                       | --                                                   | --                              |
| 30... | --                                     | .37                                                  | 1.7                                                | .48                                       | --                                                   | --                              |
| 30... | --                                     | .37                                                  | 2.0                                                | .60                                       | --                                                   | --                              |

02336502 CHATTAHOOCHEE RIVER AT I-285, AT ATLANTA, GA.--Continued

## WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(FC<br>H/100 ML) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|-------|------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------|---------------------------------------------|
| OCT.  |                                    |                                                            |                                              |                              |                                                              |                                            |                                             |
| 21... | 17                                 | 174                                                        | 30                                           | 25                           | 2.0                                                          | 150000                                     | 3.0                                         |
| NOV.  |                                    |                                                            |                                              |                              |                                                              |                                            |                                             |
| 18... | 13                                 | 54                                                         | 5                                            | 26                           | 5.6                                                          | 230000                                     | 7.0                                         |
| DEC.  |                                    |                                                            |                                              |                              |                                                              |                                            |                                             |
| 18... | 12                                 | 52                                                         | 10                                           | 18                           | 3.7                                                          | 43000                                      | 5.0                                         |
| JAN.  |                                    |                                                            |                                              |                              |                                                              |                                            |                                             |
| 13... | 11                                 | 48                                                         | 15                                           | 22                           | 1.7                                                          | 9300                                       | 3.0                                         |
| FEB.  |                                    |                                                            |                                              |                              |                                                              |                                            |                                             |
| 24... | 11                                 | 51                                                         | 5                                            | 25                           | 5.2                                                          | 1.1E+07                                    | 5.0                                         |
| MAR.  |                                    |                                                            |                                              |                              |                                                              |                                            |                                             |
| 24... | 13                                 | --                                                         | 10                                           | 19                           | 1.3                                                          | 2300                                       | 3.0                                         |
| APR.  |                                    |                                                            |                                              |                              |                                                              |                                            |                                             |
| 20... | 11                                 | 43                                                         | 8                                            | 24                           | 1.0                                                          | 4300                                       | 3.0                                         |
| MAY   |                                    |                                                            |                                              |                              |                                                              |                                            |                                             |
| 17... | 9                                  | 35                                                         | 10                                           | 62                           | 1.4                                                          | 43000                                      | 4.0                                         |
| JUNE  |                                    |                                                            |                                              |                              |                                                              |                                            |                                             |
| 23... | 11                                 | 46                                                         | 5                                            | 12                           | 1.8                                                          | 7500                                       | 3.0                                         |
| JULY  |                                    |                                                            |                                              |                              |                                                              |                                            |                                             |
| 12... | --                                 | 78                                                         | --                                           | --                           | --                                                           | --                                         | --                                          |
| 12... | --                                 | 78                                                         | --                                           | --                           | 4.6                                                          | --                                         | --                                          |
| 12... | --                                 | 78                                                         | --                                           | --                           | 4.2                                                          | --                                         | --                                          |
| 12... | --                                 | --                                                         | --                                           | --                           | 4.3                                                          | --                                         | --                                          |
| 27... | 12                                 | 48                                                         | 5                                            | 25                           | 1.6                                                          | 230                                        | 3.0                                         |
| AUG.  |                                    |                                                            |                                              |                              |                                                              |                                            |                                             |
| 30... | --                                 | 76                                                         | --                                           | --                           | 3.0                                                          | --                                         | 1.2                                         |
| 30... | 34                                 | 77                                                         | 15                                           | 7                            | .2                                                           | <30                                        | 5.0                                         |
| 30... | --                                 | 87                                                         | --                                           | --                           | 1.0                                                          | --                                         | 4.2                                         |
| 30... | --                                 | 93                                                         | --                                           | --                           | 1.0                                                          | --                                         | 3.0                                         |
| 30... | --                                 | 96                                                         | --                                           | --                           | 1.6                                                          | --                                         | 3.1                                         |
| SEP.  |                                    |                                                            |                                              |                              |                                                              |                                            |                                             |
| 07... | --                                 | --                                                         | --                                           | --                           | 4.7                                                          | --                                         | --                                          |
| 07... | --                                 | --                                                         | --                                           | --                           | 4.2                                                          | --                                         | --                                          |
| 07... | --                                 | --                                                         | --                                           | --                           | 1.7                                                          | --                                         | --                                          |
| 07... | --                                 | --                                                         | --                                           | --                           | 3.2                                                          | --                                         | --                                          |
| 07... | --                                 | --                                                         | --                                           | --                           | 3.0                                                          | --                                         | --                                          |
| 07... | --                                 | --                                                         | --                                           | --                           | 5.0                                                          | --                                         | --                                          |
| 07... | --                                 | --                                                         | --                                           | --                           | 6.0                                                          | --                                         | --                                          |

02337000 SWEETWATER CREEK NEAR AUSTELL, GA.

LOCATION.--Lat 33°46'22", long 84°36'53", Douglas County, 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 mi<sup>2</sup> (637 km<sup>2</sup>).

## 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.--40 years (1904-5, 1937-76), 332 ft<sup>3</sup>/s (9.40 m<sup>3</sup>/s), 18.33 in/yr (465.6 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft<sup>3</sup>/s (295 m<sup>3</sup>/s) Nov. 29, 1948, gage height, 18.4 ft (5.608 m); minimum daily, 2.1 ft<sup>3</sup>/s (0.059 m<sup>3</sup>/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 ft<sup>3</sup>/s (357 m<sup>3</sup>/s), from rating extended above 6,500 ft<sup>3</sup>/s (184 m<sup>3</sup>/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 ft<sup>3</sup>/s (51.0 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Jan. 1  | 0500 | 2180 61.7                                             | 6.95 2.118              | Mar. 17 | 1800 | *6280 178                                             | 15.46 4.712             |
| Jan. 27 | 2400 | 4560 129                                              | 12.38 3.773             | Apr. 1  | 2000 | 4240 120                                              | 11.62 3.542             |
| Mar. 13 | 1900 | 1840 52.1                                             | 6.16 1.878              | May 15  | 2000 | 1960 55.5                                             | 6.40 1.951              |

Minimum discharge, 49 ft<sup>3</sup>/s (1.39 m<sup>3</sup>/s) Sept. 26, 27, gage height, 0.77 ft (0.235 m).

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

| DAY         | OCT   | NOV    | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN  | JUL  | AUG  | SEP   |
|-------------|-------|--------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| 1           | 187   | 169    | 350   | 2000  | 617   | 248   | 3860  | 359   | 324  | 586  | 126  | 104   |
| 2           | 427   | 166    | 450   | 1510  | 819   | 234   | 3700  | 359   | 313  | 442  | 118  | 97    |
| 3           | 435   | 168    | 350   | 860   | 609   | 230   | 2050  | 311   | 303  | 306  | 107  | 99    |
| 4           | 383   | 168    | 314   | 685   | 488   | 228   | 747   | 260   | 354  | 561  | 95   | 101   |
| 5           | 500   | 165    | 308   | 561   | 430   | 226   | 580   | 239   | 356  | 1110 | 93   | 107   |
| 6           | 754   | 164    | 278   | 450   | 452   | 313   | 514   | 228   | 316  | 843  | 89   | 106   |
| 7           | 660   | 248    | 272   | 432   | 434   | 377   | 468   | 281   | 258  | 552  | 204  | 101   |
| 8           | 884   | 355    | 266   | 705   | 391   | 322   | 437   | 419   | 228  | 385  | 155  | 96    |
| 9           | 601   | 358    | 254   | 568   | 362   | 390   | 407   | 410   | 208  | 311  | 131  | 94    |
| 10          | 451   | 314    | 245   | 450   | 345   | 410   | 383   | 338   | 193  | 280  | 107  | 167   |
| 11          | 335   | 254    | 233   | 399   | 333   | 351   | 371   | 287   | 194  | 234  | 96   | 142   |
| 12          | 264   | 519    | 223   | 425   | 323   | 395   | 359   | 260   | 195  | 207  | 88   | 93    |
| 13          | 225   | 1130   | 216   | 400   | 314   | 1490  | 350   | 239   | 185  | 183  | 87   | 79    |
| 14          | 205   | 886    | 212   | 605   | 306   | 1250  | 341   | 416   | 173  | 169  | 81   | 73    |
| 15          | 189   | 479    | 211   | 526   | 302   | 1260  | 338   | 1720  | 167  | 154  | 78   | 72    |
| 16          | 180   | 264    | 327   | 451   | 298   | 4190  | 329   | 1550  | 161  | 143  | 70   | 68    |
| 17          | 483   | 285    | 386   | 396   | 296   | 5920  | 317   | 1110  | 160  | 140  | 70   | 64    |
| 18          | 592   | 456    | 372   | 347   | 314   | 5320  | 302   | 574   | 161  | 146  | 66   | 60    |
| 19          | 498   | 368    | 303   | 311   | 358   | 2880  | 293   | 396   | 178  | 130  | 63   | 58    |
| 20          | 366   | 375    | 266   | 300   | 325   | 824   | 290   | 325   | 317  | 131  | 58   | 58    |
| 21          | 278   | 357    | 253   | 306   | 292   | 928   | 302   | 285   | 481  | 167  | 61   | 57    |
| 22          | 239   | 314    | 241   | 305   | 442   | 950   | 287   | 259   | 496  | 136  | 64   | 57    |
| 23          | 216   | 270    | 230   | 294   | 421   | 751   | 272   | 245   | 301  | 121  | 197  | 58    |
| 24          | 200   | 253    | 223   | 289   | 364   | 564   | 260   | 239   | 232  | 112  | 364  | 54    |
| 25          | 192   | 535    | 228   | 281   | 315   | 495   | 278   | 226   | 205  | 104  | 164  | 51    |
| 26          | 188   | 600    | 465   | 2310  | 291   | 464   | 290   | 209   | 221  | 99   | 113  | 50    |
| 27          | 189   | 400    | 437   | 4090  | 275   | 564   | 269   | 222   | 294  | 96   | 135  | 50    |
| 28          | 188   | 300    | 377   | 4230  | 263   | 606   | 248   | 739   | 232  | 134  | 370  | 52    |
| 29          | 188   | 270    | 314   | 2620  | 257   | 530   | 236   | 836   | 227  | 188  | 173  | 53    |
| 30          | 189   | 250    | 314   | 805   | ---   | 719   | 248   | 628   | 493  | 154  | 157  | 57    |
| 31          | 177   | ---    | 1490  | 508   | ---   | 1920  | ---   | 408   | ---  | 134  | 131  | ---   |
| TOTAL       | 10863 | 10840  | 10408 | 28419 | 11036 | 35349 | 19126 | 14377 | 7926 | 8458 | 3911 | 2378  |
| MEAN        | 350   | 361    | 336   | 917   | 381   | 1140  | 638   | 464   | 264  | 273  | 126  | 79.3  |
| MAX         | 884   | 1130   | 1490  | 4230  | 819   | 5920  | 3860  | 1720  | 496  | 1110 | 370  | 167   |
| MIN         | 177   | 164    | 211   | 281   | 257   | 226   | 236   | 209   | 160  | 96   | 58   | 50    |
| CFSM        | 1.42  | 1.47   | 1.37  | 3.73  | 1.55  | 4.63  | 2.59  | 1.89  | 1.07 | 1.11 | .51  | .32   |
| IN.         | 1.64  | 1.64   | 1.57  | 4.30  | 1.67  | 5.35  | 2.89  | 2.17  | 1.20 | 1.28 | .59  | .36   |
| CAL YR 1975 | TOTAL | 179070 | MEAN  | 491   | MAX   | 7330  | MIN   | 97    | CFSM | 2.00 | IN   | 27.08 |
| WTR YR 1976 | TOTAL | 163091 | MEAN  | 446   | MAX   | 5920  | MIN   | 50    | CFSM | 1.81 | IN   | 24.66 |

## 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE      | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | TEMPER-<br>ATURE<br>(DEG C) | PH<br>(UNITS) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-----------|------|-----------------------------------------------|-----------------------------|---------------|------------------------------------|
| NOV 03... | 1130 | 170                                           | 11.5                        | 7.2           | --                                 |
| DEC 08... | 1030 | 275                                           | 10.5                        | 7.3           | 8.4                                |
| JAN 19... | 1125 | 308                                           | 1.0                         | 6.7           | 13.3                               |
| FEB 23... | 0900 | 423                                           | 9.0                         | 7.0           | 9.8                                |
| MAR 22... | 0930 | 944                                           | 12.0                        | 6.7           | 8.6                                |
| APR 19... | 0915 | 293                                           | 16.0                        | 6.9           | 8.1                                |
| MAY 19... | 0740 | 407                                           | 14.5                        | 6.9           | 8.2                                |
| JUN 21... | 0835 | 440                                           | 20.0                        | 6.8           | 6.9                                |
| JUL 27... | 0755 | 96                                            | 25.0                        | 7.2           | 5.8                                |
| AUG 31... | 0735 | 138                                           | 22.0                        | 7.0           | 6.4                                |

| DATE      | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|-----------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| NOV 03... | 27                                       | .30                                                  | .06                                                | .09                                       | 22                                 | 68                                                         | 40                                           | 14                           | .8                                                           | 4300                                             | 3.0                                         |
| DEC 08... | 21                                       | .33                                                  | .08                                                | .05                                       | 19                                 | 66                                                         | 35                                           | 17                           | .6                                                           | 930                                              | 3.0                                         |
| JAN 19... | 19                                       | .34                                                  | .20                                                | .05                                       | 18                                 | 61                                                         | 30                                           | 16                           | .7                                                           | 430                                              | 3.0                                         |
| FEB 23... | 18                                       | .37                                                  | .06                                                | .07                                       | 18                                 | 62                                                         | 50                                           | 30                           | 1.4                                                          | 230                                              | 4.0                                         |
| MAR 22... | 13                                       | .25                                                  | .03                                                | .10                                       | 12                                 | 48                                                         | 50                                           | 50                           | 1.2                                                          | 2300                                             | 5.0                                         |
| APR 19... | 22                                       | .37                                                  | .03                                                | .07                                       | 18                                 | 60                                                         | 21                                           | 21                           | --                                                           | 91                                               | 4.0                                         |
| MAY 19... | 18                                       | .28                                                  | .02                                                | .07                                       | 16                                 | 56                                                         | 80                                           | 46                           | 1.4                                                          | 430                                              | 4.0                                         |
| JUN 21... | 21                                       | .28                                                  | .03                                                | .10                                       | 19                                 | 62                                                         | 60                                           | 50                           | 1.7                                                          | 9300                                             | 5.0                                         |
| JUL 27... | 28                                       | .41                                                  | .03                                                | .06                                       | 23                                 | 78                                                         | 30                                           | 18                           | .6                                                           | 230                                              | 3.0                                         |
| AUG 31... | 20                                       | .16                                                  | .02                                                | .05                                       | 20                                 | 69                                                         | 45                                           | 18                           | .6                                                           | 230                                              | 6.0                                         |

## APALACHICOLA RIVER BASIN

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02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.

LOCATION.--Lat 33°39'24", long 84°40'25", Fulton County, 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 mi<sup>2</sup> (5,340 km<sup>2</sup>).

## 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 sta. 02334400.).

AVERAGE DISCHARGE.--11 years, 3,930 ft<sup>3</sup>/s (111 m<sup>3</sup>/s), 25.91 in/yr (658.1 mm/yr), unadjusted.EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,300 ft<sup>3</sup>/s (971 m<sup>3</sup>/s) Mar. 16, 1976, gage height, 24.09 ft (7.343 m); minimum daily, 1,000 ft<sup>3</sup>/s (28.3 m<sup>3</sup>/s) July 1, 1970.EXTREMES FOR CURRENT YEAR.--Maximum discharge, 34,300 ft<sup>3</sup>/s (971 m<sup>3</sup>/s) Mar. 16, gage height, 24.09 ft (7.343 m); minimum daily, 1,290 ft<sup>3</sup>/s (36.5 m<sup>3</sup>/s) Sept. 13.DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY               | OCT     | NOV    | DEC    | JAN    | FEB       | MAR      | APR        | MAY        | JUN       | JUL    | AUG   | SEP   |
|-------------------|---------|--------|--------|--------|-----------|----------|------------|------------|-----------|--------|-------|-------|
| 1                 | 4400    | 2510   | 4270   | 10500  | 8010      | 1940     | 19100      | 6320       | 8030      | 4810   | 1610  | 2220  |
| 2                 | 7000    | 1860   | 4450   | 5700   | 6560      | 3900     | 14700      | 2570       | 8800      | 4730   | 1490  | 2120  |
| 3                 | 3200    | 2050   | 3740   | 5350   | 7620      | 4330     | 10900      | 2180       | 8430      | 4270   | 2020  | 2320  |
| 4                 | 2320    | 2970   | 3360   | 3890   | 7550      | 4830     | 8320       | 4300       | 10600     | 2430   | 2090  | 3750  |
| 5                 | 3730    | 3170   | 3110   | 3330   | 7300      | 5140     | 7670       | 5040       | 8510      | 4730   | 1980  | 1720  |
| 6                 | 6640    | 3400   | 3230   | 6350   | 7410      | 5050     | 7580       | 5520       | 3120      | 4910   | 2170  | 1370  |
| 7                 | 3960    | 3860   | 2200   | 6790   | 7080      | 2890     | 7440       | 6030       | 2180      | 8130   | 2840  | 1370  |
| 8                 | 7830    | 3670   | 2130   | 8020   | 4030      | 2160     | 7820       | 5670       | 6390      | 7940   | 1750  | 2270  |
| 9                 | 5950    | 2200   | 3470   | 7520   | 3820      | 3700     | 9030       | 2730       | 7480      | 7620   | 1490  | 2660  |
| 10                | 2730    | 2160   | 5900   | 6500   | 5130      | 3540     | 8960       | 2200       | 7460      | 7460   | 4030  | 2870  |
| 11                | 2280    | 3400   | 6740   | 3050   | 5370      | 3160     | 9930       | 2810       | 7390      | 2400   | 4370  | 2530  |
| 12                | 1920    | 5800   | 5400   | 3410   | 5470      | 3260     | 10200      | 3190       | 7160      | 1920   | 4360  | 1590  |
| 13                | 1970    | 7830   | 5070   | 4760   | 5500      | 12200    | 10400      | 3700       | 3490      | 5190   | 5240  | 1290  |
| 14                | 2390    | 6840   | 2230   | 6400   | 5150      | 6970     | 9030       | 3820       | 2640      | 5260   | 4520  | 1920  |
| 15                | 2430    | 6160   | 2040   | 5520   | 2580      | 7260     | 3560       | 12300      | 4930      | 4510   | 1710  | 2660  |
| 16                | 2540    | 2770   | 2980   | 5220   | 2030      | 27900    | 3370       | 7230       | 5360      | 4170   | 2470  | 2450  |
| 17                | 7270    | 2130   | 5860   | 4690   | 2730      | 28400    | 5190       | 8720       | 5330      | 4150   | 3860  | 2460  |
| 18                | 5360    | 3590   | 4460   | 5370   | 2990      | 16600    | 9450       | 9040       | 5580      | 1930   | 4140  | 2440  |
| 19                | 2560    | 3760   | 6720   | 3550   | 2850      | 11100    | 7420       | 7930       | 5590      | 1530   | 3000  | 1600  |
| 20                | 2110    | 4150   | 5590   | 5170   | 2850      | 8230     | 4320       | 7640       | 2880      | 1770   | 2580  | 1360  |
| 21                | 2370    | 5560   | 2350   | 6580   | 3200      | 6140     | 7430       | 7540       | 2620      | 2610   | 3670  | 4100  |
| 22                | 2770    | 4320   | 2240   | 4690   | 3540      | 5190     | 7340       | 7150       | 5520      | 3040   | 1750  | 2930  |
| 23                | 2730    | 2580   | 2810   | 4950   | 3900      | 4960     | 7240       | 2680       | 5720      | 2870   | 1420  | 2410  |
| 24                | 2680    | 2530   | 2970   | 3030   | 4590      | 4790     | 7070       | 2100       | 5280      | 2410   | 4920  | 2420  |
| 25                | 3450    | 4200   | 2280   | 2250   | 3700      | 6260     | 5730       | 6100       | 5130      | 3380   | 5350  | 2250  |
| 26                | 2060    | 4580   | 3620   | 12700  | 3290      | 7440     | 3060       | 7270       | 4750      | 1610   | 5160  | 2740  |
| 27                | 1750    | 4400   | 4090   | 20500  | 3090      | 7840     | 6640       | 7340       | 2110      | 4030   | 5570  | 2090  |
| 28                | 2930    | 2400   | 2440   | 12000  | 3060      | 4220     | 7380       | 12000      | 1920      | 4330   | 3260  | 3990  |
| 29                | 2730    | 1860   | 2200   | 9450   | 1940      | 2870     | 7390       | 14500      | 3970      | 2560   | 1650  | 2580  |
| 30                | 2780    | 1840   | 3600   | 7080   | ---       | 7680     | 6580       | 8190       | 4930      | 2390   | 1500  | 2860  |
| 31                | 2570    | ---    | 10600  | 5600   | ---       | 13300    | ---        | 4830       | ---       | 2320   | 2770  | ---   |
| TOTAL             | 107410  | 108550 | 122550 | 199920 | 132340    | 233250   | 240250     | 188640     | 163300    | 121410 | 94740 | 71340 |
| MEAN              | 3465    | 3618   | 3953   | 6449   | 4563      | 7524     | 8008       | 6085       | 5443      | 3916   | 3056  | 2378  |
| MAX               | 7830    | 7830   | 10600  | 20500  | 8010      | 28400    | 19100      | 14500      | 10600     | 8130   | 5570  | 4100  |
| MIN               | 1750    | 1840   | 2040   | 2250   | 1940      | 1940     | 3060       | 2100       | 1920      | 1530   | 1420  | 1290  |
| CAL YR 1975 TOTAL | 1572640 |        |        | 4309   | MAX 30300 | MIN 1480 | MEAN† 4665 | CFSM† 2.26 | IN† 30.68 |        |       |       |
| WTR YR 1976 TOTAL | 1783700 |        |        | 4873   | MAX 28400 | MIN 1290 | MEAN† 4656 | CFSM† 2.26 | IN† 30.76 |        |       |       |

† 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 to September 1976.

pH: July to September 1976.

WATER TEMPERATURES: October 1975 to September 1976.

DISSOLVED OXYGEN: July to September 1976.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | TEMPER-<br>ATURE<br>(DEG C) | PH<br>(UNITS) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|-----------------------------|---------------|------------------------------------|
| OCT   |      |                                               |                             |               |                                    |
| 14... | 1115 | 2170                                          | 21.0                        | 6.5           | 6.6                                |
| 21... | 0915 | 2550                                          | 15.0                        | 7.0           | 7.6                                |
| 28... | 1000 | 3410                                          | 17.0                        | 6.5           | 7.4                                |
| NOV   |      |                                               |                             |               |                                    |
| 11... | 1230 | 2710                                          | 19.2                        | 5.7           | 5.6                                |
| 18... | 0945 | 3490                                          | 11.5                        | 6.7           | 7.7                                |
| 20... | 1200 | 3270                                          | 14.0                        | --            | 7.8                                |
| DEC   |      |                                               |                             |               |                                    |
| 04... | 1300 | 3300                                          | 12.0                        | 6.3           | 8.6                                |
| 16... | 0930 | 2470                                          | 14.5                        | 6.9           | 7.0                                |
| JAN   |      |                                               |                             |               |                                    |
| 13... | 0930 | 4360                                          | 7.5                         | 6.9           | 10.1                               |
| 14... | 1130 | 6890                                          | 9.0                         | 6.2           | 9.5                                |
| 20... | 1200 | 5290                                          | 6.0                         | 5.7           | 11.4                               |
| 29... | 1120 | 9500                                          | 7.7                         | 5.9           | 10.6                               |
| FEB   |      |                                               |                             |               |                                    |
| 11... | 1220 | 4830                                          | 9.5                         | 5.6           | 9.6                                |
| 17... | 1215 | 2770                                          | 15.0                        | 6.2           | 7.6                                |
| 23... | 0955 | 3310                                          | 10.5                        | 6.9           | 8.8                                |
| MAR   |      |                                               |                             |               |                                    |
| 23... | 1000 | 5080                                          | 12.0                        | 6.8           | 7.5                                |
| 24... | 1245 | 5130                                          | 13.5                        | 6.4           | 8.6                                |
| APR   |      |                                               |                             |               |                                    |
| 08... | 1315 | 8280                                          | 13.5                        | 6.2           | 9.7                                |
| 19... | 1010 | 8440                                          | 11.0                        | 6.9           | 10.6                               |
| MAY   |      |                                               |                             |               |                                    |
| 03... | 1215 | 1960                                          | 18.0                        | 6.2           | 6.3                                |
| 12... | 1120 | 2560                                          | 17.0                        | 6.3           | 6.9                                |
| 19... | 1235 | 8980                                          | 12.0                        | 7.0           | 9.5                                |
| 26... | 1130 | 8680                                          | 14.0                        | 6.0           | 13.0                               |
| 31... | 1200 | 4060                                          | 19.0                        | --            | 8.2                                |
| JUN   |      |                                               |                             |               |                                    |
| 03... | 1200 | 9670                                          | 15.3                        | 6.1           | 7.7                                |
| 09... | 1030 | 8400                                          | 16.0                        | 6.3           | 7.6                                |
| 21... | 0930 | 2240                                          | 22.0                        | 6.7           | 5.2                                |
| 29... | 1320 | 3800                                          | 23.5                        | 6.0           | 6.0                                |
| JUL   |      |                                               |                             |               |                                    |
| 08... | 1225 | 2240                                          | 15.8                        | 5.9           | 8.9                                |
| 27... | 0845 | 4120                                          | 23.0                        | 6.9           | 6.2                                |
| 27... | 1130 | 4390                                          | 20.5                        | 6.0           | 5.2                                |
| AUG   |      |                                               |                             |               |                                    |
| 05... | 1210 | 1730                                          | 23.4                        | 5.9           | 6.0                                |
| 26... | 1315 | 5800                                          | 20.0                        | 5.9           | 6.5                                |
| 31... | 0840 | 2970                                          | 27.0                        | 6.9           | 5.1                                |
| SEP   |      |                                               |                             |               |                                    |
| 08... | 1200 | 2600                                          | 25.0                        | 6.0           | 5.5                                |

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | ALKA-<br>LINITY<br>AS<br>CAC03<br>(MG/L) | TOTAL<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | TOTAL<br>MAG-<br>NE-<br>SIUM<br>(MG) | TOTAL<br>SODIUM<br>(NA)<br>(MG/L) | TOTAL<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|-------|------------------------------------------|---------------------------------|-----------------------------------------|--------------------------------------|-----------------------------------|-----------------------------------------------|---------------------------------------------------|------------------------------------------------------|----------------------------------------------------|
| OCT   |                                          |                                 |                                         |                                      |                                   |                                               |                                                   |                                                      |                                                    |
| 14... | --                                       | 800                             | --                                      | --                                   | --                                | --                                            | --                                                | .53                                                  | .65                                                |
| 21... | 24                                       | 2200                            | 5.1                                     | 1.7                                  | 7.1                               | 2.7                                           | 7.9                                               | .50                                                  | <.02                                               |
| 28... | --                                       | 3000                            | --                                      | --                                   | --                                | --                                            | --                                                | .54                                                  | .39                                                |
| NOV   |                                          |                                 |                                         |                                      |                                   |                                               |                                                   |                                                      |                                                    |
| 11... | --                                       | 2600                            | --                                      | --                                   | --                                | --                                            | --                                                | .61                                                  | .80                                                |
| 18... | 21                                       | 1440                            | 4.3                                     | 1.5                                  | 6.0                               | 2.0                                           | 7.5                                               | .39                                                  | 1.0                                                |
| 20... | --                                       | 1500                            | --                                      | --                                   | --                                | --                                            | --                                                | .36                                                  | .41                                                |
| DEC   |                                          |                                 |                                         |                                      |                                   |                                               |                                                   |                                                      |                                                    |
| 04... | --                                       | 1700                            | 5.1                                     | 1.0                                  | 6.0                               | 2.0                                           | --                                                | .49                                                  | .53                                                |
| 16... | 21                                       | 1300                            | 4.9                                     | 1.5                                  | 7.2                               | 2.3                                           | 6.0                                               | .60                                                  | 1.2                                                |
| JAN   |                                          |                                 |                                         |                                      |                                   |                                               |                                                   |                                                      |                                                    |
| 13... | 19                                       | 1000                            | 4.5                                     | 1.5                                  | 5.5                               | 1.8                                           | 4.8                                               | .41                                                  | .60                                                |
| 14... | --                                       | 5500                            | --                                      | --                                   | --                                | --                                            | --                                                | .37                                                  | .03                                                |
| 20... | --                                       | 1500                            | --                                      | --                                   | --                                | --                                            | --                                                | .32                                                  | .37                                                |
| 29... | --                                       | 5200                            | --                                      | --                                   | --                                | --                                            | --                                                | .17                                                  | .06                                                |
| FEB   |                                          |                                 |                                         |                                      |                                   |                                               |                                                   |                                                      |                                                    |
| 11... | --                                       | 1600                            | --                                      | --                                   | --                                | --                                            | --                                                | .31                                                  | .34                                                |
| 17... | --                                       | 1700                            | --                                      | --                                   | --                                | --                                            | --                                                | .44                                                  | .56                                                |
| 23... | 17                                       | 1400                            | 5.0                                     | 1.4                                  | 4.7                               | 1.8                                           | 5.3                                               | .38                                                  | .50                                                |
| MAR   |                                          |                                 |                                         |                                      |                                   |                                               |                                                   |                                                      |                                                    |
| 23... | 19                                       | 2100                            | 5.4                                     | 2.3                                  | 5.7                               | 2.1                                           | --                                                | .41                                                  | .43                                                |
| 24... | --                                       | 2500                            | --                                      | --                                   | --                                | --                                            | --                                                | .36                                                  | .28                                                |
| APR   |                                          |                                 |                                         |                                      |                                   |                                               |                                                   |                                                      |                                                    |
| 08... | --                                       | 2400                            | --                                      | --                                   | --                                | --                                            | --                                                | .29                                                  | .15                                                |
| 19... | 12                                       | 1100                            | 3.7                                     | 2.2                                  | 2.9                               | 1.5                                           | 4.3                                               | .26                                                  | .18                                                |
| MAY   |                                          |                                 |                                         |                                      |                                   |                                               |                                                   |                                                      |                                                    |
| 03... | --                                       | 1700                            | 6.2                                     | 1.6                                  | 7.3                               | 2.4                                           | --                                                | .57                                                  | .93                                                |
| 12... | --                                       | 2000                            | --                                      | --                                   | --                                | --                                            | --                                                | .46                                                  | .43                                                |
| 19... | 12                                       | 1400                            | 2.4                                     | .9                                   | 2.7                               | 1.5                                           | 2.0                                               | .33                                                  | .12                                                |
| 26... | --                                       | 2900                            | --                                      | --                                   | --                                | --                                            | --                                                | .36                                                  | .13                                                |
| 31... | --                                       | 5200                            | --                                      | --                                   | --                                | --                                            | --                                                | .40                                                  | .26                                                |
| JUN   |                                          |                                 |                                         |                                      |                                   |                                               |                                                   |                                                      |                                                    |
| 03... | --                                       | --                              | --                                      | --                                   | --                                | --                                            | --                                                | .35                                                  | .11                                                |
| 09... | --                                       | 2700                            | --                                      | --                                   | --                                | --                                            | --                                                | .36                                                  | .21                                                |
| 21... | 20                                       | 1900                            | 6.0                                     | 1.5                                  | 5.5                               | 2.1                                           | 5.0                                               | .51                                                  | .60                                                |
| 29... | --                                       | 1900                            | --                                      | --                                   | --                                | --                                            | --                                                | .57                                                  | .66                                                |
| JUL   |                                          |                                 |                                         |                                      |                                   |                                               |                                                   |                                                      |                                                    |
| 08... | --                                       | 5200                            | --                                      | --                                   | --                                | --                                            | --                                                | .41                                                  | .13                                                |
| 27... | 15                                       | 990                             | 3.1                                     | 1.2                                  | 4.6                               | 1.7                                           | 4.0                                               | .50                                                  | .39                                                |
| 27... | --                                       | 4700                            | --                                      | --                                   | --                                | --                                            | --                                                | .50                                                  | .47                                                |
| AUG   |                                          |                                 |                                         |                                      |                                   |                                               |                                                   |                                                      |                                                    |
| 05... | --                                       | 1100                            | --                                      | --                                   | --                                | --                                            | --                                                | .69                                                  | .69                                                |
| 26... | --                                       | 2100                            | --                                      | --                                   | --                                | --                                            | --                                                | .48                                                  | .48                                                |
| 31... | 19                                       | 1600                            | 4.9                                     | 1.2                                  | 8.1                               | 2.5                                           | 8.8                                               | .66                                                  | 1.4                                                |
| SEPT  |                                          |                                 |                                         |                                      |                                   |                                               |                                                   |                                                      |                                                    |
| 08... | --                                       | 2300                            | --                                      | --                                   | --                                | --                                            | --                                                | .81                                                  | 1.9                                                |

## APALACHICOLA RIVER BASIN

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) | OIL<br>AND<br>GREASE<br>(MG/L) |
|-------|-------------------------------------------|-------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|--------------------------------|
| OCT   |                                           |                                     |                                                            |                                              |                              |                                                              |                                                  |                                             |                                |
| 14... | .39                                       | --                                  | 70                                                         | --                                           | --                           | --                                                           | --                                               | 5.2                                         | 0                              |
| 21... | .35                                       | 21                                  | 88                                                         | 40                                           | 38                           | 5.8                                                          | 93000                                            | 7.0                                         | --                             |
| 28... | .39                                       | --                                  | 70                                                         | --                                           | --                           | --                                                           | --                                               | 6.5                                         | 1                              |
| NOV   |                                           |                                     |                                                            |                                              |                              |                                                              |                                                  |                                             |                                |
| 11... | .60                                       | --                                  | 90                                                         | --                                           | --                           | --                                                           | --                                               | 1.8                                         | 0                              |
| 18... | .60                                       | 16                                  | 73                                                         | 10                                           | 21                           | 5.6                                                          | 230000                                           | 9.0                                         | --                             |
| 20... | .27                                       | --                                  | 63                                                         | --                                           | --                           | --                                                           | --                                               | 2.2                                         | 1                              |
| DEC   |                                           |                                     |                                                            |                                              |                              |                                                              |                                                  |                                             |                                |
| 04... | .57                                       | --                                  | 79                                                         | --                                           | --                           | --                                                           | --                                               | 5.2                                         | 0                              |
| 16... | 1.0                                       | 19                                  | 91                                                         | <5                                           | 26                           | 7.9                                                          | 93000                                            | 10                                          | --                             |
| JAN   |                                           |                                     |                                                            |                                              |                              |                                                              |                                                  |                                             |                                |
| 13... | .34                                       | 15                                  | 73                                                         | 20                                           | 21                           | 4.0                                                          | 43000                                            | 5.0                                         | --                             |
| 14... | .42                                       | --                                  | 70                                                         | --                                           | --                           | --                                                           | --                                               | 8.6                                         | 0                              |
| 20... | .24                                       | --                                  | 60                                                         | --                                           | --                           | --                                                           | --                                               | 11                                          | 0                              |
| 29... | .08                                       | --                                  | 55                                                         | --                                           | --                           | --                                                           | --                                               | 4.4                                         | 0                              |
| FEB   |                                           |                                     |                                                            |                                              |                              |                                                              |                                                  |                                             |                                |
| 11... | .22                                       | --                                  | 61                                                         | --                                           | --                           | --                                                           | --                                               | 2.6                                         | 1                              |
| 17... | .38                                       | --                                  | 80                                                         | --                                           | --                           | --                                                           | --                                               | 4.6                                         | 0                              |
| 23... | .31                                       | 16                                  | 63                                                         | 30                                           | 34                           | 4.3                                                          | 23000                                            | 5.0                                         | --                             |
| MAR   |                                           |                                     |                                                            |                                              |                              |                                                              |                                                  |                                             |                                |
| 23... | .31                                       | --                                  | 69                                                         | 80                                           | 46                           | 4.8                                                          | 93000                                            | 9.0                                         | --                             |
| 24... | .20                                       | --                                  | 62                                                         | --                                           | --                           | --                                                           | --                                               | 8.6                                         | 1                              |
| APR   |                                           |                                     |                                                            |                                              |                              |                                                              |                                                  |                                             |                                |
| 08... | .15                                       | --                                  | 47                                                         | --                                           | --                           | --                                                           | --                                               | 2.0                                         | 0                              |
| 19... | .11                                       | 11                                  | 41                                                         | 8                                            | 19                           | --                                                           | 2300                                             | 4.0                                         | --                             |
| MAY   |                                           |                                     |                                                            |                                              |                              |                                                              |                                                  |                                             |                                |
| 03... | .37                                       | --                                  | 79                                                         | --                                           | --                           | --                                                           | --                                               | 1.4                                         | 0                              |
| 12... | .35                                       | --                                  | 61                                                         | --                                           | --                           | --                                                           | --                                               | 2.2                                         | 0                              |
| 19... | .17                                       | 10                                  | 39                                                         | 20                                           | 34                           | 1.3                                                          | 43000                                            | 3.0                                         | --                             |
| 26... | .14                                       | --                                  | 40                                                         | --                                           | --                           | --                                                           | --                                               | .8                                          | 2                              |
| 31... | .23                                       | --                                  | 56                                                         | --                                           | --                           | --                                                           | --                                               | 4.7                                         | 0                              |
| JUN   |                                           |                                     |                                                            |                                              |                              |                                                              |                                                  |                                             |                                |
| 03... | .21                                       | --                                  | 42                                                         | --                                           | --                           | --                                                           | --                                               | 5.7                                         | 0                              |
| 09... | .19                                       | --                                  | 47                                                         | --                                           | --                           | --                                                           | --                                               | 3.2                                         | 0                              |
| 21... | .37                                       | 18                                  | 77                                                         | 30                                           | 38                           | 4.8                                                          | 230000                                           | 5.0                                         | --                             |
| 29... | .45                                       | --                                  | 82                                                         | --                                           | --                           | --                                                           | --                                               | 3.6                                         | 0                              |
| JUL   |                                           |                                     |                                                            |                                              |                              |                                                              |                                                  |                                             |                                |
| 08... | .16                                       | --                                  | 43                                                         | --                                           | --                           | --                                                           | --                                               | 2.5                                         | 0                              |
| 27... | .30                                       | 13                                  | 56                                                         | 10                                           | 16                           | 3.6                                                          | 23000                                            | 3.0                                         | --                             |
| 27... | .55                                       | --                                  | 80                                                         | --                                           | --                           | --                                                           | --                                               | 6.0                                         | 0                              |
| AUG   |                                           |                                     |                                                            |                                              |                              |                                                              |                                                  |                                             |                                |
| 05... | .41                                       | --                                  | 73                                                         | --                                           | --                           | --                                                           | --                                               | 4.4                                         | 0                              |
| 26... | .38                                       | --                                  | 56                                                         | --                                           | --                           | --                                                           | --                                               | 6.1                                         | 0                              |
| 31... | .49                                       | 16                                  | 93                                                         | 10                                           | 22                           | 6.8                                                          | 9300                                             | 4.0                                         | --                             |
| SEP   |                                           |                                     |                                                            |                                              |                              |                                                              |                                                  |                                             |                                |
| 08... | .62                                       | --                                  | 120                                                        | --                                           | --                           | --                                                           | --                                               | 3.6                                         | 0                              |

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | APRIL |     | MAY |     | JUNE |     | JULY |     | AUGUST |     | SEPTEMBER |     |
|-------|-------|-----|-----|-----|------|-----|------|-----|--------|-----|-----------|-----|
|       | MAX   | MIN | MAX | MIN | MAX  | MIN | MAX  | MIN | MAX    | MIN | MAX       | MIN |
| 1     |       |     |     |     |      |     | 69   | 44  | 91     | 68  | 80        | 62  |
| 2     |       |     |     |     |      |     | 73   | 44  | 91     | 84  | 98        | 66  |
| 3     |       |     |     |     |      |     | 58   | 46  | 103    | 73  | 86        | 65  |
| 4     |       |     |     |     |      |     | 84   | 53  | 91     | 65  | 73        | 44  |
| 5     |       |     |     |     |      |     | 74   | 43  | 98     | 72  | 87        | 59  |
| 6     |       |     |     |     |      |     | 68   | 46  | 88     | 67  | 90        | 79  |
| 7     |       |     |     |     |      |     | 55   | 33  | 84     | 62  | 96        | 80  |
| 8     |       |     |     |     |      |     | 46   | 42  | 91     | 61  | 114       | 67  |
| 9     |       |     |     |     |      |     | ---  | --- | 91     | 85  | 88        | 59  |
| 10    |       |     |     |     |      |     | ---  | --- | 92     | 46  | 89        | 53  |
| 11    |       |     |     |     |      |     | ---  | --- | 64     | 47  | 83        | 52  |
| 12    |       |     |     |     |      |     | ---  | --- | 63     | 46  | 83        | 55  |
| 13    |       |     |     |     |      |     | 50   | 40  | 72     | 38  | 89        | 80  |
| 14    |       |     |     |     |      |     | 68   | 39  | 49     | 41  | 98        | 64  |
| 15    |       |     |     |     |      |     | 72   | 46  | 82     | 45  | 81        | 58  |
| 16    |       |     |     |     |      |     | ---  | --- | 103    | 73  | 79        | 58  |
| 17    |       |     |     |     |      |     | 77   | 46  | 80     | 47  | 82        | 56  |
| 18    |       |     |     |     |      |     | 90   | 55  | 65     | 46  | 82        | 52  |
| 19    |       |     |     |     |      |     | 97   | 91  | 65     | 49  | 88        | 52  |
| 20    |       |     |     |     |      |     | 124  | 96  | 83     | 50  | 91        | 83  |
| 21    |       |     |     |     |      |     | 90   | 73  | 66     | 43  | 77        | 47  |
| 22    |       |     |     |     |      |     | 81   | 57  | 84     | 49  | 75        | 50  |
| 23    |       |     |     |     |      |     | 79   | 53  | 93     | 82  | 78        | 54  |
| 24    |       |     |     |     |      |     | 84   | 61  | 94     | 40  | 88        | 54  |
| 25    |       |     |     |     |      |     | 79   | 45  | 50     | 40  | 79        | 55  |
| 26    |       |     |     |     |      |     | 89   | 51  | 58     | 38  | 79        | 49  |
| 27    |       |     |     |     |      |     | 94   | 49  | 78     | 43  | 79        | 53  |
| 28    |       |     |     |     |      |     | 74   | 52  | 76     | 48  | 70        | 50  |
| 29    |       |     |     |     |      |     | 86   | 56  | 91     | 63  | 84        | 54  |
| 30    |       |     |     |     |      |     | 86   | 63  | 95     | 79  | 79        | 56  |
| 31    |       |     |     |     |      |     | 89   | 62  | 102    | 53  | ---       | --- |
| MONTH |       |     |     |     |      |     | 124  | 33  | 103    | 38  | 114       | 44  |

## APALACHICOLA RIVER BASIN

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | APRIL |     | MAY |     | JUNE |     | JULY |     | AUGUST |     | SEPTEMBER |     |
|-------|-------|-----|-----|-----|------|-----|------|-----|--------|-----|-----------|-----|
|       | MAX   | MIN | MAX | MIN | MAX  | MIN | MAX  | MIN | MAX    | MIN | MAX       | MIN |
| 1     |       |     |     |     |      |     | 6.7  | 6.6 | 6.5    | 6.5 | 6.3       | 6.2 |
| 2     |       |     |     |     |      |     | 6.8  | 6.7 | 6.6    | 6.5 | 6.4       | 6.2 |
| 3     |       |     |     |     |      |     | 6.8  | 6.6 | 6.6    | 6.6 | 6.4       | 6.3 |
| 4     |       |     |     |     |      |     | 6.8  | 6.6 | 6.6    | 6.5 | 6.4       | 6.3 |
| 5     |       |     |     |     |      |     | 6.7  | 6.5 | 6.5    | 6.4 | 6.3       | 6.3 |
| 6     |       |     |     |     |      |     | 6.7  | 6.6 | 6.5    | 6.4 | 6.3       | 6.2 |
| 7     |       |     |     |     |      |     | 6.6  | 6.5 | 6.6    | 6.4 | 6.3       | 6.2 |
| 8     |       |     |     |     |      |     | 6.6  | 6.5 | 6.5    | 6.4 | 6.3       | 6.1 |
| 9     |       |     |     |     |      |     | ---  | --- | 6.5    | 6.4 | 6.3       | 5.9 |
| 10    |       |     |     |     |      |     | ---  | --- | 6.5    | 6.4 | 6.2       | 5.9 |
| 11    |       |     |     |     |      |     | ---  | --- | 6.4    | 6.4 | 6.3       | 6.2 |
| 12    |       |     |     |     |      |     | ---  | --- | 6.4    | 6.4 | 6.3       | 6.2 |
| 13    |       |     |     |     |      |     | 6.7  | 6.6 | 6.4    | 6.3 | 6.3       | 6.2 |
| 14    |       |     |     |     |      |     | 6.8  | 6.7 | 6.4    | 6.3 | 6.4       | 6.3 |
| 15    |       |     |     |     |      |     | 6.8  | 6.7 | 6.4    | 6.4 | 6.5       | 6.3 |
| 16    |       |     |     |     |      |     | 6.8  | 6.7 | 6.5    | 6.3 | 6.4       | 6.2 |
| 17    |       |     |     |     |      |     | 6.8  | 6.7 | 6.5    | 6.4 | 6.4       | 6.1 |
| 18    |       |     |     |     |      |     | 6.8  | 6.7 | 6.4    | 6.4 | 6.2       | 6.1 |
| 19    |       |     |     |     |      |     | 6.8  | 6.7 | 6.4    | 6.3 | 6.1       | 6.0 |
| 20    |       |     |     |     |      |     | 6.8  | 6.7 | 6.5    | 6.4 | 6.3       | 6.0 |
| 21    |       |     |     |     |      |     | 6.6  | 6.5 | 6.5    | 6.4 | 6.3       | 6.2 |
| 22    |       |     |     |     |      |     | 6.7  | 6.5 | 6.4    | 6.4 | 6.3       | 6.1 |
| 23    |       |     |     |     |      |     | 6.7  | 6.5 | 6.4    | 6.3 | 6.4       | 6.2 |
| 24    |       |     |     |     |      |     | 6.7  | 6.6 | 6.4    | 6.3 | 6.3       | 6.2 |
| 25    |       |     |     |     |      |     | 6.6  | 6.5 | 6.3    | 6.3 | 6.3       | 6.2 |
| 26    |       |     |     |     |      |     | 6.6  | 6.5 | 6.3    | 6.2 | 6.4       | 6.2 |
| 27    |       |     |     |     |      |     | 6.6  | 6.4 | 6.7    | 6.2 | 6.3       | 6.2 |
| 28    |       |     |     |     |      |     | 6.6  | 6.1 | 6.3    | 6.3 | 6.4       | 6.2 |
| 29    |       |     |     |     |      |     | 6.4  | 6.3 | 6.4    | 6.3 | 6.3       | 6.1 |
| 30    |       |     |     |     |      |     | 6.5  | 6.4 | 6.4    | 6.3 | 6.2       | 6.1 |
| 31    |       |     |     |     |      |     | 6.5  | 6.5 | 6.4    | 6.3 | ---       | --- |
| MONTH |       |     |     |     |      |     | 6.8  | 6.1 | 6.7    | 6.2 | 6.5       | 5.9 |

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

## DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | APRIL |     | MAY |     | JUNE |     | JULY |     | AUGUST |     | SEPTEMBER |     |
|-------|-------|-----|-----|-----|------|-----|------|-----|--------|-----|-----------|-----|
|       | MAX   | MIN | MAX | MIN | MAX  | MIN | MAX  | MIN | MAX    | MIN | MAX       | MIN |
| 1     |       |     |     |     |      |     | 7.6  | 6.2 | 5.7    | 4.5 | 6.2       | 4.9 |
| 2     |       |     |     |     |      |     | 8.0  | 6.5 | 5.0    | 4.3 | 7.0       | 5.5 |
| 3     |       |     |     |     |      |     | 8.4  | 6.4 | 4.4    | 3.8 | 7.3       | 5.6 |
| 4     |       |     |     |     |      |     | 7.2  | 4.7 | 5.3    | 4.1 | 9.0       | 6.6 |
| 5     |       |     |     |     |      |     | 5.7  | 5.4 | 4.5    | 3.6 | 8.1       | 5.3 |
| 6     |       |     |     |     |      |     | 6.7  | 6.1 | 5.0    | 4.1 | 5.8       | 4.7 |
| 7     |       |     |     |     |      |     | 8.4  | 7.3 | 5.0    | 4.0 | 5.0       | 4.1 |
| 8     |       |     |     |     |      |     | 8.9  | 8.7 | 4.9    | 3.3 | 6.8       | 4.6 |
| 9     |       |     |     |     |      |     | ---  | --- | 4.1    | 3.5 | 7.4       | 5.1 |
| 10    |       |     |     |     |      |     | ---  | --- | 6.9    | 4.0 | 6.9       | 4.8 |
| 11    |       |     |     |     |      |     | ---  | --- | 6.9    | 5.6 | 7.8       | 5.8 |
| 12    |       |     |     |     |      |     | ---  | --- | 7.3    | 6.2 | 8.1       | 6.0 |
| 13    |       |     |     |     |      |     | 9.0  | 7.8 | 7.7    | 4.6 | 6.5       | 5.4 |
| 14    |       |     |     |     |      |     | 8.6  | 7.0 | 7.8    | 6.8 | 5.9       | 4.1 |
| 15    |       |     |     |     |      |     | 8.5  | 6.8 | 7.5    | 4.3 | 6.9       | 5.0 |
| 16    |       |     |     |     |      |     | 7.7  | 6.2 | 5.1    | 3.5 | 6.5       | 4.4 |
| 17    |       |     |     |     |      |     | 7.3  | 6.0 | 6.5    | 4.7 | 5.8       | 4.7 |
| 18    |       |     |     |     |      |     | 6.9  | 4.3 | 6.9    | 5.6 | 6.2       | 5.1 |
| 19    |       |     |     |     |      |     | 4.4  | 3.9 | 7.0    | 5.6 | 6.5       | 4.3 |
| 20    |       |     |     |     |      |     | 4.3  | 3.3 | 6.4    | 5.1 | 5.3       | 4.5 |
| 21    |       |     |     |     |      |     | 5.2  | 4.2 | 7.4    | 6.3 | 7.7       | 4.8 |
| 22    |       |     |     |     |      |     | 6.9  | 5.5 | 7.3    | 4.7 | 7.3       | 6.0 |
| 23    |       |     |     |     |      |     | 7.1  | 4.3 | 5.2    | 3.9 | 7.4       | 6.0 |
| 24    |       |     |     |     |      |     | 5.3  | 3.3 | 6.2    | 2.6 | 7.7       | 5.5 |
| 25    |       |     |     |     |      |     | 5.8  | 3.5 | 7.2    | 5.8 | 7.5       | 5.5 |
| 26    |       |     |     |     |      |     | 5.7  | 3.2 | 7.3    | 5.9 | 7.2       | 6.1 |
| 27    |       |     |     |     |      |     | 5.5  | 3.2 | 8.2    | 5.2 | 7.2       | 5.1 |
| 28    |       |     |     |     |      |     | 5.8  | 3.3 | 7.6    | 5.8 | 7.9       | 6.0 |
| 29    |       |     |     |     |      |     | 5.3  | 4.1 | 6.2    | 3.0 | 7.2       | 3.6 |
| 30    |       |     |     |     |      |     | 4.9  | 4.1 | 3.3    | 2.4 | 7.2       | 4.6 |
| 31    |       |     |     |     |      |     | 5.5  | 4.5 | 5.4    | 2.4 | ---       | --- |
| MONTH |       |     |     |     |      |     | 9.0  | 3.2 | 8.2    | 2.4 | 9.0       | 3.6 |



## APALACHICOLA RIVER BASIN

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02337438 DOG RIVER NEAR FAIRPLAY, GA.

LOCATION.--Lat 33°37'20", long 84°47'35", Douglas County, 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                               |               |                             |                                    |
| 21... | 1000 | 102                                           | 7.0           | 11.0                        | 7.0                                |
| NOV.  |      |                                               |               |                             |                                    |
| 18... | 1045 | 100                                           | 7.1           | 9.0                         | 9.0                                |
| DEC.  |      |                                               |               |                             |                                    |
| 16... | 1015 | 103                                           | 6.6           | 11.5                        | 10.2                               |
| JAN.  |      |                                               |               |                             |                                    |
| 13... | 1025 | 130                                           | 7.0           | 6.0                         | 11.8                               |
| FEB.  |      |                                               |               |                             |                                    |
| 23... | 1040 | 143                                           | 7.0           | 8.0                         | 11.4                               |
| MAR.  |      |                                               |               |                             |                                    |
| 22... | 1100 | 254                                           | 6.7           | 12.0                        | 10.1                               |
| APR.  |      |                                               |               |                             |                                    |
| 19... | 1050 | 123                                           | 7.1           | 16.0                        | 9.5                                |
| MAY   |      |                                               |               |                             |                                    |
| 19... | 1150 | 128                                           | 7.0           | 15.0                        | 9.6                                |
| JUNE  |      |                                               |               |                             |                                    |
| 21... | 1005 | 96                                            | 6.2           | 19.5                        | 8.5                                |
| JULY  |      |                                               |               |                             |                                    |
| 12... | 1545 | 100                                           | 7.1           | 24.0                        | 8.0                                |
| 27... | 0915 | 68                                            | 7.0           | 22.0                        | 7.6                                |
| AUG.  |      |                                               |               |                             |                                    |
| 31... | 0910 | 39                                            | 6.9           | 21.5                        | 8.2                                |
| 31... | 1355 | 42                                            | 7.3           | 23.3                        | 9.1                                |

| DATE  | TOTAL<br>IRON<br>(FF)<br>(UG/L) | TOTAL<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) |
|-------|---------------------------------|-------------------------------------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|
| OCT.  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                                      |
| 21... | 1000                            | 70                                        | 11                                       | .10                                                  | <.02                                               | <.02                                      | 5                                                    |
| NOV.  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                                      |
| 18... | 800                             | 80                                        | 10                                       | .15                                                  | <.02                                               | <.02                                      | 30                                                   |
| DEC.  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                                      |
| 16... | 700                             | 80                                        | 8                                        | .20                                                  | <.02                                               | <.02                                      | 3                                                    |
| JAN.  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                                      |
| 13... | 500                             | 100                                       | 9                                        | .23                                                  | .03                                                | .02                                       | 2                                                    |
| FEB.  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                                      |
| 23... | 1000                            | 80                                        | 9                                        | .20                                                  | <.02                                               | <.02                                      | 9                                                    |
| MAR.  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                                      |
| 22... | 1400                            | <50                                       | 6                                        | .17                                                  | <.02                                               | .04                                       | 18                                                   |
| APR.  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                                      |
| 19... | 550                             | <50                                       | 9                                        | .15                                                  | <.02                                               | .02                                       | 9                                                    |
| MAY   |                                 |                                           |                                          |                                                      |                                                    |                                           |                                                      |
| 19... | 760                             | <50                                       | 10                                       | .18                                                  | <.02                                               | <.02                                      | 10                                                   |
| JUNE  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                                      |
| 21... | 1800                            | <50                                       | 4                                        | .17                                                  | <.02                                               | .04                                       | 19                                                   |
| JULY  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                                      |
| 12... | --                              | --                                        | --                                       | .16                                                  | .00                                                | .01                                       | --                                                   |
| 27... | --                              | --                                        | 8                                        | .33                                                  | <.02                                               | .11                                       | 118                                                  |
| AUG.  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                                      |
| 31... | --                              | --                                        | 9                                        | .14                                                  | <.02                                               | <.02                                      | 1                                                    |
| 31... | --                              | --                                        | --                                       | .16                                                  | .00                                                | .01                                       | 6                                                    |

## APALACHICOLA RIVER BASIN

02337438 DOG RIVER NEAR FAIRPLAY, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>IDITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(FC<br>HROT) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------|------------------------------------------------------------|----------------------------------------------|--------------------------------|--------------------------------------------------------------|----------------------------------------|---------------------------------------------|
| OCT.<br>21... | 10                                 | 34                                                         | 25                                           | 13                             | 1.2                                                          | 390                                    | 2.0                                         |
| NOV.<br>18... | 9                                  | 32                                                         | 20                                           | 13                             | .4                                                           | 72                                     | 3.0                                         |
| DEC.<br>16... | 8                                  | 31                                                         | 20                                           | 12                             | .3                                                           | 91                                     | 1.0                                         |
| JAN.<br>13... | 9                                  | 31                                                         | 20                                           | 12                             | .3                                                           | 230                                    | 3.0                                         |
| FEB.<br>23... | 8                                  | 31                                                         | 30                                           | 20                             | .6                                                           | 930                                    | 2.0                                         |
| MAR.<br>22... | 6                                  | 28                                                         | 75                                           | 34                             | .4                                                           | 430                                    | 3.0                                         |
| APR.<br>19... | 7                                  | 27                                                         | 12                                           | 12                             | --                                                           | 430                                    | 3.0                                         |
| MAY<br>19...  | 8                                  | 29                                                         | 35                                           | 19                             | .7                                                           | 91                                     | 2.0                                         |
| JUNE<br>21... | 6                                  | 37                                                         | 50                                           | 29                             | .8                                                           | 2300                                   | 1.0                                         |
| JULY<br>12... | --                                 | 32                                                         | --                                           | --                             | .5                                                           | --                                     | --                                          |
| 27...         | 8                                  | 35                                                         | 100                                          | 180                            | 2.6                                                          | 930                                    | 7.0                                         |
| AUG.<br>31... | 8                                  | 32                                                         | 30                                           | 8                              | .1                                                           | 91                                     | 3.0                                         |
| 31...         | --                                 | 33                                                         | --                                           | --                             | 1.0                                                          | --                                     | 2.2                                         |

02337500 SNAKE CREEK NEAR WHITESBURG, GA.

LOCATION.--Lat 33°31'46", long 84°55'42", Carroll County, 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 mi<sup>2</sup> (96 km<sup>2</sup>), 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 good except those for period of indefinite stage-discharge relation, which are fair.

AVERAGE DISCHARGE.--22 years, 58.2 ft<sup>3</sup>/s (1.65 m<sup>3</sup>/s), 21.36 in/yr (542.5 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,690 ft<sup>3</sup>/s (218 m<sup>3</sup>/s) Feb. 25, 1961, gage height, 14.40 ft (4.389 m); minimum, 2.3 ft<sup>3</sup>/s (0.065 m<sup>3</sup>/s) Oct. 7, 1954, gage height, 1.56 ft (0.475 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft<sup>3</sup>/s (28.3 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Jan. 26 | 1200 | *4360 123                                             | 10.88 3.316             | July 5 | 0415 | 2500 70.8                                             | 8.40 2.560              |
| Mar. 16 | 0130 | 3890 110                                              | 10.29 3.136             | July 7 | 0045 | 1160 32.9                                             | 5.60 1.707              |
| Mar. 31 | 1000 | 1260 35.7                                             | 5.85 1.783              |        |      |                                                       |                         |

Minimum daily discharge, 19 ft<sup>3</sup>/s (0.54 m<sup>3</sup>/s) Sept. 26, 27.

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

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1     | 48   | 36   | 85   | 117  | 94   | 56   | 245  | 86   | 70   | 106  | 40   | 40   |
| 2     | 48   | 36   | 61   | 85   | 103  | 56   | 156  | 66   | 95   | 50   | 37   | 45   |
| 3     | 35   | 36   | 55   | 108  | 90   | 56   | 128  | 61   | 88   | 45   | 34   | 50   |
| 4     | 32   | 36   | 48   | 86   | 83   | 55   | 117  | 59   | 130  | 70   | 32   | 45   |
| 5     | 184  | 36   | 49   | 72   | 83   | 55   | 110  | 58   | 88   | 644  | 31   | 40   |
| 6     | 216  | 36   | 48   | 64   | 74   | 64   | 106  | 58   | 74   | 353  | 32   | 35   |
| 7     | 117  | 81   | 46   | 67   | 72   | 58   | 101  | 66   | 69   | 360  | 49   | 33   |
| 8     | 101  | 52   | 45   | 64   | 69   | 55   | 97   | 67   | 66   | 128  | 38   | 31   |
| 9     | 81   | 45   | 43   | 58   | 67   | 74   | 94   | 64   | 62   | 94   | 34   | 30   |
| 10    | 69   | 42   | 43   | 55   | 64   | 62   | 90   | 58   | 59   | 83   | 32   | 50   |
| 11    | 59   | 40   | 41   | 58   | 61   | 59   | 88   | 56   | 58   | 72   | 31   | 45   |
| 12    | 53   | 88   | 41   | 56   | 59   | 76   | 88   | 53   | 56   | 64   | 30   | 40   |
| 13    | 50   | 97   | 40   | 59   | 59   | 267  | 86   | 56   | 53   | 59   | 29   | 35   |
| 14    | 46   | 64   | 40   | 83   | 58   | 112  | 85   | 104  | 52   | 55   | 28   | 31   |
| 15    | 43   | 55   | 41   | 64   | 58   | 928  | 83   | 264  | 50   | 53   | 28   | 28   |
| 16    | 43   | 50   | 46   | 61   | 58   | 2100 | 81   | 162  | 49   | 50   | 27   | 26   |
| 17    | 121  | 48   | 45   | 56   | 58   | 390  | 79   | 101  | 49   | 59   | 29   | 24   |
| 18    | 81   | 45   | 45   | 53   | 67   | 235  | 76   | 88   | 50   | 50   | 27   | 23   |
| 19    | 62   | 42   | 41   | 52   | 64   | 153  | 74   | 77   | 76   | 46   | 26   | 22   |
| 20    | 53   | 46   | 41   | 52   | 58   | 115  | 70   | 67   | 72   | 45   | 24   | 21   |
| 21    | 49   | 59   | 41   | 50   | 61   | 238  | 69   | 61   | 61   | 42   | 24   | 23   |
| 22    | 46   | 48   | 41   | 49   | 90   | 143  | 69   | 59   | 53   | 40   | 24   | 25   |
| 23    | 43   | 48   | 41   | 49   | 69   | 119  | 67   | 67   | 50   | 38   | 30   | 23   |
| 24    | 42   | 45   | 40   | 49   | 62   | 108  | 66   | 66   | 49   | 37   | 79   | 21   |
| 25    | 42   | 43   | 45   | 49   | 61   | 99   | 77   | 61   | 46   | 36   | 60   | 20   |
| 26    | 42   | 43   | 62   | 1510 | 59   | 97   | 66   | 59   | 45   | 36   | 45   | 19   |
| 27    | 42   | 46   | 49   | 424  | 58   | 112  | 62   | 81   | 43   | 40   | 60   | 19   |
| 28    | 41   | 42   | 48   | 232  | 58   | 112  | 61   | 187  | 43   | 40   | 90   | 20   |
| 29    | 41   | 41   | 41   | 143  | 58   | 101  | 59   | 119  | 55   | 37   | 70   | 20   |
| 30    | 40   | 43   | 53   | 106  | ---  | 133  | 70   | 88   | 59   | 42   | 60   | 21   |
| 31    | 37   | ---  | 346  | 92   | ---  | 491  | ---  | 76   | ---  | 41   | 50   | ---  |
| TOTAL | 2007 | 1469 | 1751 | 4123 | 1975 | 6779 | 2720 | 2595 | 1870 | 2915 | 1230 | 905  |
| MEAN  | 64.7 | 49.0 | 56.5 | 133  | 68.1 | 219  | 90.7 | 83.7 | 62.3 | 94.0 | 39.7 | 30.2 |
| MAX   | 216  | 97   | 346  | 1510 | 103  | 2100 | 245  | 264  | 130  | 644  | 90   | 50   |
| MIN   | 32   | 36   | 40   | 49   | 58   | 55   | 59   | 53   | 43   | 36   | 24   | 19   |
| CFSM  | 1.75 | 1.32 | 1.53 | 3.59 | 1.84 | 5.92 | 2.45 | 2.26 | 1.68 | 2.54 | 1.07 | .82  |
| IN.   | 2.02 | 1.48 | 1.76 | 4.15 | 1.99 | 6.82 | 2.73 | 2.61 | 1.88 | 2.93 | 1.24 | .91  |

CAL YR 1975 TOTAL 27794 MEAN 76.1 MAX 1270 MIN 23 CFSM 2.06 IN 27.94  
WTR YR 1976 TOTAL 30339 MEAN 82.9 MAX 2100 MIN 19 CFSM 2.24 IN 30.50

NOTE: Indefinite stage-discharge relation Aug. 25 to Sept. 30.

## APALACHICOLA RIVER BASIN

02337500 SNAKE CREEK NEAR WHITESBURG, GA.--Continued

## WATER-QUALITY RECORDS

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|--------------|------|-----------------------------------------------|------------------------------------------------------------|---------------|-----------------------------|------------------------------------|
| MAR<br>24... | 1345 | 108                                           | 26                                                         | 6.3           | 14.0                        | 10.2                               |
| MAY<br>31... | 1045 | 77                                            | 28                                                         | 5.7           | 17.5                        | 7.3                                |

| DATE         | DIS-<br>SOLVED<br>SILICA<br>(SiO2)<br>(MG/L) | DIS-<br>SOLVED<br>ALUM-<br>INUM<br>(AL)<br>(UG/L) | DIS-<br>SOLVED<br>IRON<br>(FE)<br>(UG/L) | DIS-<br>SOLVED<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | DIS-<br>SOLVED<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | DIS-<br>SOLVED<br>MAG-<br>NE-<br>SIUM<br>(MG) | DIS-<br>SOLVED<br>SODIUM<br>(NA)<br>(MG/L) | DIS-<br>SOLVED<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | BICAR-<br>BONATE<br>(HCO3)<br>(MG/L) | CAR-<br>BONATE<br>(CO3)<br>(MG/L) | ALKA-<br>LITY<br>AS<br>CACO3<br>(MG/L) |
|--------------|----------------------------------------------|---------------------------------------------------|------------------------------------------|----------------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------|--------------------------------------------------------|--------------------------------------|-----------------------------------|----------------------------------------|
| MAR<br>24... | 8.9                                          | 20                                                | 0                                        | 20                                                 | 1.8                                              | .5                                            | 1.7                                        | .8                                                     | 5                                    | 0                                 | 4                                      |
| MAY<br>31... | 9.5                                          | 10                                                | 50                                       | 20                                                 | 1.0                                              | .1                                            | 2.2                                        | .8                                                     | 7                                    | 0                                 | 6                                      |

| DATE         | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | DIS-<br>SOLVED<br>FLUO-<br>RIDE<br>(F)<br>(MG/L) | DIS-<br>SOLVED<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRATE<br>(NO3)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>(NO2)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | DIS-<br>SOLVED<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) |
|--------------|----------------------------------------------|---------------------------------------------------|--------------------------------------------------|--------------------------------------------|----------------------------------------------|--------------------------------------------|----------------------------------------------|------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------|
| MAR<br>24... | 2.4                                          | 2.0                                               | .0                                               | .18                                        | .80                                          | .01                                        | .03                                          | .19                                                  | .19                                                           | .01                                                | .02                                                         |
| MAY<br>31... | 1.2                                          | 1.9                                               | .0                                               | .18                                        | .80                                          | .01                                        | .03                                          | .18                                                  | .19                                                           | .05                                                | .06                                                         |

| DATE         | DIS-<br>SOLVED<br>AMMONIA<br>(NH4)<br>(MG/L) | TOTAL<br>ORGANIC<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>KJEL-<br>DAHL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>NITRO-<br>GEN<br>(NO3)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOL-<br>VED-<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>ORTHO<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO<br>PHOS-<br>PHATE<br>(PO4)<br>(MG/L) | DIS-<br>SOLVED<br>ORTHO.<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | DIS-<br>SOLVED<br>SOLIDS<br>(RESI-<br>DUE AT<br>180 C)<br>(MG/L) |
|--------------|----------------------------------------------|----------------------------------------------------|----------------------------------------------------------|-----------------------------------------|-------------------------------------------|-------------------------------------------|----------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|------------------------------------------------------------------|
| MAR<br>24... | .03                                          | .17                                                | .18                                                      | .37                                     | 1.6                                       | .03                                       | .00                                                      | .02                                                | .03                                                          | .01                                                          | 18                                                               |
| MAY<br>31... | .08                                          | .11                                                | .16                                                      | .34                                     | 1.5                                       | .01                                       | .00                                                      | .01                                                | .00                                                          | .00                                                          | 31                                                               |

| DATE         | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | NON-<br>CAR-<br>BONATE<br>HARD-<br>NESS<br>(MG/L) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | DIS-<br>SOLVED<br>ARSENIC<br>(AS)<br>(UG/L) | DIS-<br>SOLVED<br>CAD-<br>MIUM<br>(CD)<br>(UG/L) | DIS-<br>SOLVED<br>CHRO-<br>MIUM<br>(CR)<br>(UG/L) | DIS-<br>SOLVED<br>COPPER<br>(CU)<br>(UG/L) | DIS-<br>SOLVED<br>LEAD<br>(PB)<br>(UG/L) | DIS-<br>SOLVED<br>MERCURY<br>(HG)<br>(UG/L) | DIS-<br>SOLVED<br>SELE-<br>NIUM<br>(SE)<br>(UG/L) | DIS-<br>SOLVED<br>ZINC<br>(ZN)<br>(UG/L) |
|--------------|------------------------------------|---------------------------------------------------|----------------------------------------------|---------------------------------------------|--------------------------------------------------|---------------------------------------------------|--------------------------------------------|------------------------------------------|---------------------------------------------|---------------------------------------------------|------------------------------------------|
| MAR<br>24... | 7                                  | 2                                                 | 40                                           | 0                                           | 0                                                | 0                                                 | 2                                          | 0                                        | .0                                          | 0                                                 | 0                                        |
| MAY<br>31... | 3                                  | 0                                                 | 30                                           | 0                                           | 0                                                | 0                                                 | 0                                          | 0                                        | .1                                          | 0                                                 | 0                                        |

## 02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.

LOCATION.--Lat 33°28'37", long 84°54'04", Carroll County, 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) southeast 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 mi<sup>2</sup> (6,290 km<sup>2</sup>), 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 except those for periods of doubtful or no gage-height record, which are poor. Flow regulated by Lake Sidney Lanier (see sta. 02334400).

AVERAGE DISCHARGE.--26 years, 4,049 ft<sup>3</sup>/s (115 m<sup>3</sup>/s), 22.63 in/yr (574.8 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,000 ft<sup>3</sup>/s (1,670 m<sup>3</sup>/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 ft<sup>3</sup>/s (850 m<sup>3</sup>/s) on basis of velocity-area and channel-capacity studies; minimum daily, 468 ft<sup>3</sup>/s (13.3 m<sup>3</sup>/s) Oct. 26, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 43,700 ft<sup>3</sup>/s (1,240 m<sup>3</sup>/s) Mar. 16, gage height, 23.90 ft (7.285 m); minimum daily, 1,440 ft<sup>3</sup>/s (40.8 m<sup>3</sup>/s) Sept. 20.

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

| DAY   | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 1     | 3790   | 2890   | 4050   | 13200  | 7390   | 2740   | 22100  | 7170   | 7600   | 5450   | 2200   | 2840  |
| 2     | 7380   | 2340   | 5390   | 7390   | 8340   | 3760   | 20100  | 4490   | 9480   | 5130   | 1730   | 2650  |
| 3     | 4680   | 2180   | 4370   | 5800   | 7830   | 4420   | 12100  | 2820   | 9220   | 5280   | 2020   | 2560  |
| 4     | 2840   | 2170   | 3780   | 5260   | 8210   | 5190   | 10000  | 4210   | 10600  | 3640   | 2510   | 3430  |
| 5     | 3660   | 3550   | 3470   | 4000   | 7800   | 5480   | 9000   | 5630   | 9960   | 6900   | 2070   | 3030  |
| 6     | 10400  | 3690   | 3420   | 6000   | 7820   | 5570   | 8000   | 6110   | 5250   | 5740   | 2480   | 1660  |
| 7     | 5430   | 3830   | 2850   | 7000   | 7740   | 4300   | 7800   | 6620   | 3200   | 9790   | 2940   | 1650  |
| 8     | 7900   | 4590   | 2240   | 9000   | 5480   | 2870   | 7500   | 6600   | 5550   | 9020   | 2580   | 1990  |
| 9     | 7140   | 3200   | 3440   | 8000   | 4060   | 3470   | 8500   | 4300   | 7700   | 8350   | 1700   | 2900  |
| 10    | 4350   | 2200   | 5490   | 7000   | 5140   | 4600   | 9300   | 2720   | 7800   | 8060   | 3190   | 3200  |
| 11    | 2700   | 3010   | 6720   | 4500   | 5890   | 3670   | 10200  | 3140   | 7600   | 5170   | 4660   | 3140  |
| 12    | 2500   | 4540   | 5970   | 3500   | 5870   | 3520   | 10500  | 3760   | 5800   | 3740   | 4670   | 2320  |
| 13    | 2010   | 10100  | 5580   | 5200   | 5900   | 12900  | 11000  | 3890   | 4000   | 4690   | 5270   | 1510  |
| 14    | 2690   | 7440   | 3010   | 6450   | 5810   | 10300  | 10000  | 4440   | 3000   | 5790   | 5330   | 1620  |
| 15    | 2690   | 6850   | 2030   | 5930   | 3860   | 8140   | 5000   | 13000  | 4500   | 5220   | 2850   | 3040  |
| 16    | 2730   | 4580   | 2450   | 5410   | 2870   | 33700  | 3500   | 10200  | 5730   | 4690   | 2290   | 2760  |
| 17    | 5810   | 2440   | 5300   | 5240   | 3050   | 41400  | 4500   | 8620   | 5750   | 4820   | 3420   | 2720  |
| 18    | 8390   | 3160   | 4800   | 5270   | 3430   | 30500  | 9000   | 10200  | 5990   | 4000   | 4410   | 2580  |
| 19    | 3490   | 4080   | 5730   | 4800   | 3540   | 15700  | 8000   | 8570   | 6340   | 3500   | 4070   | 2330  |
| 20    | 2600   | 4130   | 6810   | 5400   | 3180   | 10400  | 6000   | 8200   | 4520   | 2500   | 2500   | 1440  |
| 21    | 2660   | 5910   | 3250   | 6000   | 3740   | 8320   | 4340   | 7970   | 3400   | 3000   | 3700   | 3350  |
| 22    | 2890   | 5050   | 2210   | 5600   | 4150   | 7340   | 7850   | 7920   | 5150   | 3500   | 2960   | 3890  |
| 23    | 3090   | 3340   | 2650   | 5200   | 4180   | 5850   | 7710   | 4680   | 6300   | 4000   | 1540   | 2780  |
| 24    | 2990   | 2790   | 3230   | 4600   | 5040   | 6000   | 7600   | 2630   | 5710   | 3000   | 3720   | 2720  |
| 25    | 3550   | 3980   | 2500   | 2500   | 4720   | 6320   | 6590   | 5300   | 5620   | 3500   | 5860   | 2720  |
| 26    | 2790   | 4870   | 3350   | 10000  | 3740   | 8200   | 4750   | 7760   | 5560   | 2500   | 5410   | 2660  |
| 27    | 2040   | 4870   | 4290   | 25000  | 3650   | 8730   | 5870   | 7750   | 3900   | 4000   | 6040   | 2680  |
| 28    | 2800   | 3390   | 3220   | 18000  | 3550   | 6650   | 7900   | 12500  | 3430   | 5000   | 4380   | 3490  |
| 29    | 3020   | 2200   | 2350   | 10000  | 2990   | 3820   | 7950   | 16200  | 3680   | 3420   | 2490   | 3430  |
| 30    | 2970   | 2060   | 3100   | 8000   | ---    | 7300   | 7580   | 11500  | 5280   | 2840   | 1730   | 2960  |
| 31    | 2960   | ---    | 11400  | 6800   | ---    | 14600  | ---    | 5980   | ---    | 2870   | 2460   | ---   |
| TOTAL | 124940 | 119430 | 128450 | 226050 | 148970 | 295760 | 260240 | 214880 | 177620 | 149110 | 103180 | 80050 |
| MEAN  | 4030   | 3981   | 4144   | 7292   | 5137   | 9541   | 8675   | 6932   | 5921   | 4810   | 3328   | 2668  |
| MAX   | 10400  | 10100  | 11400  | 25000  | 8340   | 41400  | 22100  | 16200  | 10600  | 9790   | 6040   | 3890  |
| MIN   | 2010   | 2060   | 2030   | 2500   | 2870   | 2740   | 3500   | 2630   | 3000   | 2500   | 1540   | 1440  |

CAL YR 1975 TOTAL 1858890 MEAN 5093 MAX 33900 MIN 1670 MEAN+ 5449 CFSM+ 2.24 IN+ 30.41  
WTR YR 1976 TOTAL 2028680 MEAN 5543 MAX 41400 MIN 1440 MEAN+ 5326 CFSM+ 2.19 IN+ 29.81

† Adjusted for change in contents in Lake Sidney Lanier.

NOTE.--Doubtful or no gage-height record Jan. 4-13, 19-29, Apr. 4-21, June 10-15, July 18-28.

## APALACHICOLA RIVER BASIN

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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

| DATE         | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |  |  |
|--------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|--|--|
| JUL<br>28... | 1140 | 2760                                          | 8.2           | 26.0                        | 5.2                                |  |  |
| AUG<br>19... | 0915 | 2900                                          | 7.0           | 26.0                        | 4.7                                |  |  |
| SEP<br>16... | 1130 | 2300                                          | 6.7           | 21.0                        | 5.6                                |  |  |

| DATE         | ALKA-<br>LINITY<br>AS<br>CaCO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | TOTAL<br>RESI-<br>DUE<br>(MG/L) |
|--------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|---------------------------------|
| JUL<br>28... | 16                                       | .75                                                  | .39                                                | .32                                       | --                                                   | --                              |
| AUG<br>19... | 18                                       | 1.1                                                  | .73                                                | .35                                       | --                                                   | --                              |
| SEP<br>16... | 20                                       | .97                                                  | .76                                                | .53                                       | 61                                                   | 120                             |

| DATE         | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(FC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|--------------|------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| JUL<br>28... | 18                                 | 68                                                         | 50                                           | 68                           | 2.5                                                          | 15000                                            | 4.0                                         |
| AUG<br>19... | 18                                 | 81                                                         | 10                                           | 29                           | 1.8                                                          | 2300                                             | 21                                          |
| SEP<br>16... | 18                                 | 78                                                         | 30                                           | 37                           | 3.0                                                          | 2300                                             | 7.0                                         |

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | TEMPER-<br>ATURE<br>(DEG C) | PH<br>(UNITS) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|-----------------------------|---------------|------------------------------------|
| OCT   |      |                                               |                             |               |                                    |
| 21... | 1055 | 2700                                          | 15.0                        | 7.1           | 5.1                                |
| NOV   |      |                                               |                             |               |                                    |
| 18... | 1140 | 3670                                          | 12.0                        | 7.0           | 6.4                                |
| DEC   |      |                                               |                             |               |                                    |
| 16... | 1120 | 2540                                          | 13.5                        | 7.1           | 8.3                                |
| JAN   |      |                                               |                             |               |                                    |
| 13... | 1140 | 4870                                          | 7.5                         | 6.9           | 10.4                               |
| FEB   |      |                                               |                             |               |                                    |
| 23... | 1125 | 4260                                          | 11.5                        | 6.8           | 8.2                                |
| MAR   |      |                                               |                             |               |                                    |
| 23... | 1100 | 5590                                          | 13.0                        | 6.8           | 8.4                                |
| APR   |      |                                               |                             |               |                                    |
| 21... | 0950 | 6770                                          | 14.0                        | 6.9           | 8.7                                |
| MAY   |      |                                               |                             |               |                                    |
| 18... | 0830 | 10100                                         | 14.0                        | 6.9           | 8.3                                |
| JUN   |      |                                               |                             |               |                                    |
| 21... | 1045 | 3420                                          | 20.5                        | 6.7           | 5.1                                |
| JUL   |      |                                               |                             |               |                                    |
| 28... | 1320 | 4660                                          | 21.0                        | 6.6           | 6.5                                |
| SEP   |      |                                               |                             |               |                                    |
| 01... | 1225 | 2590                                          | 23.0                        | 6.9           | 5.5                                |

| DATE  | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|-------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT   |                                          |                                                      |                                                    |                                           |                                     |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 21... | 20                                       | .76                                                  | .48                                                | .15                                       | 19                                  | 76                                                         | 40                                           | 32                           | 2.0                                                          | 15000                                            | 4.0                                         |
| NOV   |                                          |                                                      |                                                    |                                           |                                     |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 18... | 18                                       | .62                                                  | .90                                                | .33                                       | 18                                  | 71                                                         | 20                                           | 21                           | 2.0                                                          | 930                                              | 9.0                                         |
| DEC   |                                          |                                                      |                                                    |                                           |                                     |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 16... | 19                                       | .80                                                  | .60                                                | .36                                       | 16                                  | 73                                                         | 8                                            | 14                           | 2.6                                                          | 930                                              | 3.0                                         |
| JAN   |                                          |                                                      |                                                    |                                           |                                     |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 13... | 15                                       | .60                                                  | .25                                                | .31                                       | 14                                  | 56                                                         | 15                                           | 27                           | 3.1                                                          | 15000                                            | 6.0                                         |
| FEB   |                                          |                                                      |                                                    |                                           |                                     |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 23... | 15                                       | .46                                                  | .16                                                | .31                                       | 18                                  | 62                                                         | 50                                           | 62                           | 3.8                                                          | 2300                                             | 7.0                                         |
| MAR   |                                          |                                                      |                                                    |                                           |                                     |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 23... | 13                                       | .47                                                  | .14                                                | .18                                       | 14                                  | 55                                                         | 60                                           | 50                           | 1.9                                                          | 12000                                            | 5.0                                         |
| APR   |                                          |                                                      |                                                    |                                           |                                     |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 21... | 13                                       | .33                                                  | .10                                                | .25                                       | 11                                  | 45                                                         | 10                                           | 31                           | 2.1                                                          | 9300                                             | 4.0                                         |
| MAY   |                                          |                                                      |                                                    |                                           |                                     |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 18... | 12                                       | .39                                                  | .12                                                | .15                                       | 11                                  | 42                                                         | 50                                           | 64                           | 2.4                                                          | 93000                                            | 4.0                                         |
| JUN   |                                          |                                                      |                                                    |                                           |                                     |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 21... | 19                                       | .66                                                  | .35                                                | .18                                       | 17                                  | 69                                                         | 30                                           | 38                           | 3.0                                                          | 9300                                             | 4.0                                         |
| JUL   |                                          |                                                      |                                                    |                                           |                                     |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 28... | 12                                       | .06                                                  | .13                                                | .25                                       | 12                                  | 52                                                         | 50                                           | 54                           | 1.6                                                          | 9300                                             | 4.0                                         |
| SEP   |                                          |                                                      |                                                    |                                           |                                     |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 01... | 14                                       | .63                                                  | .09                                                | .20                                       | 11                                  | 55                                                         | 10                                           | 19                           | 1.4                                                          | 2300                                             | 4.0                                         |



## APALACHICOLA RIVER BASIN

02338500 CHATTAHOOCHEE RIVER AT FRANKLIN, GA.

LOCATION.--Lat 33°16'45", long 85°06'00", Heard County, at bridge on U.S. Highway 27 at Franklin.

DRAINAGE AREA.--2,680 mi<sup>2</sup> (6,940 km<sup>2</sup>), approximately.

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

REMARKS.--Flow regulated by Lake Sidney Lanier (see station 02334400). 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. 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 1974 TO SEPTEMBER 1975

| DATE         | TIME | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|--------------|------|---------------|-----------------------------|------------------------------------|
| JUL<br>28... | 1240 | 8.3           | 26.5                        | 6.5                                |
| AUG<br>19... | 1050 | 7.0           | 27.0                        | 5.9                                |
| SEP<br>16... | 1245 | 6.9           | 22.5                        | 6.7                                |

| DATE         | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | TOTAL<br>RESI-<br>DUE<br>(MG/L) |
|--------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|---------------------------------|
| JUL<br>28... | 13                                       | .56                                                  | .10                                                | .18                                       | --                                                   | --                              |
| AUG<br>19... | 16                                       | .89                                                  | .08                                                | .16                                       | --                                                   | --                              |
| SEP<br>16... | 17                                       | .96                                                  | .26                                                | .28                                       | 21                                                   | 90                              |

| DATE         | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|--------------|------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| JUL<br>28... | 15                                 | 60                                                         | 40                                           | 76                           | 1.3                                                          | 930                                              | 4.0                                         |
| AUG<br>19... | 16                                 | 70                                                         | 10                                           | 19                           | .9                                                           | 2300                                             | 5.0                                         |
| SEP<br>16... | 19                                 | 76                                                         | 40                                           | 24                           | 1.1                                                          | 430                                              | 6.0                                         |



## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE         | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|--------------|----------------------------------------------------|-------------------------------------------|------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT<br>21... | .10                                                | .09                                       | 17                                 | 66                                                         | 45                                           | 32                           | 1.2                                                          | 4300                                             | 3.0                                         |
| NOV<br>18... | .20                                                | .19                                       | 16                                 | 62                                                         | 25                                           | 18                           | 1.0                                                          | 750                                              | 10                                          |
| DEC<br>16... | .28                                                | .24                                       | 16                                 | 74                                                         | 8                                            | 13                           | 1.2                                                          | 2300                                             | 3.0                                         |
| JAN<br>13... | .22                                                | .24                                       | 16                                 | 66                                                         | 25                                           | 24                           | 1.8                                                          | 3900                                             | 3.0                                         |
| FEB<br>24... | .13                                                | .28                                       | 16                                 | 60                                                         | 40                                           | 50                           | 2.8                                                          | 930                                              | 5.0                                         |
| MAR<br>23... | .06                                                | .19                                       | 10                                 | 50                                                         | 70                                           | 58                           | 1.6                                                          | 2300                                             | 6.0                                         |
| APR<br>21... | .13                                                | .28                                       | 16                                 | 65                                                         | 10                                           | 31                           | 2.1                                                          | 2300                                             | 4.0                                         |
| MAY<br>18... | .03                                                | .26                                       | 10                                 | 42                                                         | 100                                          | 150                          | 1.9                                                          | 9300                                             | 6.0                                         |
| JUN<br>22... | .20                                                | .17                                       | 6                                  | 68                                                         | 25                                           | 21                           | 1.2                                                          | 2300                                             | 3.0                                         |
| JUL<br>28... | .37                                                | .35                                       | 13                                 | 66                                                         | 10                                           | 23                           | 2.3                                                          | 150                                              | 3.0                                         |
| SEP<br>01... | .27                                                | .30                                       | 18                                 | 81                                                         | 8                                            | 26                           | 1.8                                                          | 430                                              | 4.0                                         |

## APALACHICOLA RIVER BASIN

251

02338720 CHATTAHOOCHEE RIVER NEAR LA GRANGE, GA.

LOCATION.--Lat 33°04'42", long 85°06'39", Troup County, at La Grange water works intake, 1.2 mi (1.9 km) upstream from Yellow-jacket Creek, and 5.3 mi (8.5 km) northwest of La Grange.

DRAINAGE AREA.--3,010 mi<sup>2</sup> (7,800 km<sup>2</sup>), approximately.

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

REMARKS.--Flow regulated by Lake Sidney Lanier (see sta. 02334400). 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 1975 TO SEPTEMBER 1976

| DATE  | TIME                            | PH<br>(UNITS)                        | TEMPER-<br>ATURE<br>(DEG C)              | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L)                   |                                                    |                                           |                                                      |
|-------|---------------------------------|--------------------------------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|
| OCT.  |                                 |                                      |                                          |                                                      |                                                    |                                           |                                                      |
| 21... | 1320                            | 7.0                                  | 21.5                                     | 4.4                                                  |                                                    |                                           |                                                      |
| NOV.  |                                 |                                      |                                          |                                                      |                                                    |                                           |                                                      |
| 19... | 1015                            | 6.6                                  | 13.0                                     | 4.0                                                  |                                                    |                                           |                                                      |
| DEC.  |                                 |                                      |                                          |                                                      |                                                    |                                           |                                                      |
| 17... | 1100                            | 7.0                                  | 11.0                                     | 8.5                                                  |                                                    |                                           |                                                      |
| JAN.  |                                 |                                      |                                          |                                                      |                                                    |                                           |                                                      |
| 13... | 1420                            | 6.9                                  | 7.5                                      | 10.5                                                 |                                                    |                                           |                                                      |
| FEB.  |                                 |                                      |                                          |                                                      |                                                    |                                           |                                                      |
| 24... | 1305                            | 6.9                                  | 15.0                                     | 7.9                                                  |                                                    |                                           |                                                      |
| MAR.  |                                 |                                      |                                          |                                                      |                                                    |                                           |                                                      |
| 23... | 1500                            | 6.6                                  | 15.0                                     | 8.5                                                  |                                                    |                                           |                                                      |
| APR.  |                                 |                                      |                                          |                                                      |                                                    |                                           |                                                      |
| 21... | 1215                            | 7.5                                  | 19.0                                     | 9.9                                                  |                                                    |                                           |                                                      |
| MAY   |                                 |                                      |                                          |                                                      |                                                    |                                           |                                                      |
| 18... | 1040                            | 6.8                                  | 20.0                                     | 6.3                                                  |                                                    |                                           |                                                      |
| JUNE  |                                 |                                      |                                          |                                                      |                                                    |                                           |                                                      |
| 22... | 1020                            | 8.8                                  | 26.0                                     | 9.1                                                  |                                                    |                                           |                                                      |
| JULY  |                                 |                                      |                                          |                                                      |                                                    |                                           |                                                      |
| 28... | 1050                            | 9.2                                  | 29.0                                     | 7.5                                                  |                                                    |                                           |                                                      |
| SEP.  |                                 |                                      |                                          |                                                      |                                                    |                                           |                                                      |
| 01... | 1020                            | 7.4                                  | 26.0                                     | 8.2                                                  |                                                    |                                           |                                                      |
|       |                                 |                                      |                                          |                                                      |                                                    |                                           |                                                      |
| DATE  | TOTAL<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>MANGANESE<br>(MN)<br>(UG/L) | ALKA-<br>LINITY<br>AS<br>CaCO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) |
| OCT.  |                                 |                                      |                                          |                                                      |                                                    |                                           |                                                      |
| 21... | 600                             | 190                                  | 16                                       | .58                                                  | .10                                                | .02                                       | 5                                                    |
| DEC.  |                                 |                                      |                                          |                                                      |                                                    |                                           |                                                      |
| 17... | 960                             | 210                                  | 13                                       | .48                                                  | .19                                                | .10                                       | 15                                                   |
| JAN.  |                                 |                                      |                                          |                                                      |                                                    |                                           |                                                      |
| 13... | 1100                            | 120                                  | 13                                       | .38                                                  | .15                                                | .12                                       | 12                                                   |
| FEB.  |                                 |                                      |                                          |                                                      |                                                    |                                           |                                                      |
| 24... | 950                             | 220                                  | 15                                       | .56                                                  | .18                                                | .10                                       | 16                                                   |
| MAR.  |                                 |                                      |                                          |                                                      |                                                    |                                           |                                                      |
| 23... | 2000                            | 100                                  | 9                                        | .31                                                  | .09                                                | .10                                       | 15                                                   |
| APR.  |                                 |                                      |                                          |                                                      |                                                    |                                           |                                                      |
| 21... | 1300                            | 110                                  | 14                                       | .31                                                  | <.02                                               | .17                                       | 49                                                   |
| MAY   |                                 |                                      |                                          |                                                      |                                                    |                                           |                                                      |
| 18... | 1500                            | 100                                  | 14                                       | .41                                                  | .10                                                | .10                                       | 20                                                   |
| JUNE  |                                 |                                      |                                          |                                                      |                                                    |                                           |                                                      |
| 22... | 110                             | <50                                  | 9                                        | .09                                                  | <.02                                               | .05                                       | 4                                                    |
| JULY  |                                 |                                      |                                          |                                                      |                                                    |                                           |                                                      |
| 28... | 170                             | <50                                  | 16                                       | .13                                                  | .03                                                | .05                                       | 7                                                    |
| SEP.  |                                 |                                      |                                          |                                                      |                                                    |                                           |                                                      |
| 01... | 260                             | <50                                  | 18                                       | .43                                                  | .05                                                | .05                                       | 7                                                    |

## APALACHICOLA RIVER BASIN

02338720 CHATTAHOOCHEE RIVER NEAR LA GRANGE, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>NUM-<br>CORALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | CON-<br>FIRMED<br>COLT-<br>FORM<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|-------------------------------------|------------------------------------------------------------|---------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|------------------------------------------|---------------------------------------------|
| OCT.<br>21... | 17                                  | 64                                                         | <5                                          | 8                            | 1.5                                                          | 430                                              | 430                                      | 2.0                                         |
| DEC.<br>17... | 14                                  | 55                                                         | 8                                           | 15                           | .8                                                           | 930                                              | 23000                                    | 2.0                                         |
| JAN.<br>13... | 11                                  | 49                                                         | 35                                          | 27                           | .8                                                           | 2300                                             | 29000                                    | 3.0                                         |
| FEB.<br>24... | 16                                  | 66                                                         | 20                                          | 16                           | 1.1                                                          | 73                                               | --                                       | 3.0                                         |
| MAR.<br>23... | 10                                  | 42                                                         | 90                                          | 48                           | .8                                                           | 2300                                             | 4300                                     | 5.0                                         |
| APR.<br>21... | 13                                  | 52                                                         | 5                                           | 25                           | 4.4                                                          | 150                                              | 4300                                     | 4.0                                         |
| MAY<br>18...  | 12                                  | 53                                                         | 80                                          | 66                           | 1.5                                                          | 230                                              | 4300                                     | 4.0                                         |
| JUNE<br>22... | 12                                  | 50                                                         | <5                                          | 40                           | 3.3                                                          | <30                                              | --                                       | 3.0                                         |
| JULY<br>28... | 14                                  | 58                                                         | 5                                           | 6                            | 2.9                                                          | <30                                              | 36                                       | 5.0                                         |
| SEP.<br>01... | 14                                  | 61                                                         | <5                                          | 4                            | 2.6                                                          | <30                                              | 930                                      | 5.0                                         |

## 02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.

LOCATION.--Lat 32°53'10", long 85°10'56", Troup County, 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 mi<sup>2</sup> (9,190 km<sup>2</sup>), 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 Lakes Sidney Lanier and West Point (See stations 02334400 and 02339400.).

AVERAGE DISCHARGE.--80 years, 5,658 ft<sup>3</sup>/s (160 m<sup>3</sup>/s), 21.64 in/yr (549.7 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 134,000 ft<sup>3</sup>/s (3,790 m<sup>3</sup>/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 ft<sup>3</sup>/s (2,270 m<sup>3</sup>/s) on basis of computation of peak flow over Langdale Dam; minimum, 224 ft<sup>3</sup>/s (6.34 m<sup>3</sup>/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 ft<sup>3</sup>/s (2,620 m<sup>3</sup>/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 34,600 ft<sup>3</sup>/s (980 m<sup>3</sup>/s) Mar. 19, gage height, 16.15 ft (4.923 m); minimum daily, 1,280 ft<sup>3</sup>/s (36.2 m<sup>3</sup>/s) Dec. 28.

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

| DAY               | OCT     | NOV    | DEC    | JAN    | FEB       | MAR      | APR        | MAY        | JUN       | JUL    | AUG    | SEP    |
|-------------------|---------|--------|--------|--------|-----------|----------|------------|------------|-----------|--------|--------|--------|
| 1                 | 5180    | 2230   | 12500  | 11500  | 17200     | 8060     | 19100      | 2090       | 11700     | 5480   | 1540   | 3300   |
| 2                 | 7160    | 1920   | 8700   | 11700  | 17400     | 9270     | 17900      | 1980       | 10300     | 5490   | 4950   | 4380   |
| 3                 | 2800    | 6470   | 11100  | 17200  | 22300     | 8950     | 16100      | 10200      | 11800     | 1600   | 3080   | 4170   |
| 4                 | 2000    | 6640   | 10700  | 17100  | 19600     | 8770     | 6570       | 10400      | 12500     | 1580   | 3780   | 2620   |
| 5                 | 8000    | 7630   | 10500  | 14200  | 20000     | 9010     | 17200      | 10400      | 17300     | 1600   | 3700   | 2580   |
| 6                 | 15000   | 3920   | 7550   | 12700  | 19700     | 2150     | 17200      | 10400      | 16800     | 10700  | 3720   | 1710   |
| 7                 | 17200   | 9520   | 1620   | 13300  | 3260      | 1770     | 12700      | 10500      | 9850      | 10900  | 1540   | 2360   |
| 8                 | 17100   | 9310   | 9250   | 13200  | 1910      | 4070     | 12300      | 1960       | 9280      | 10700  | 1540   | 3100   |
| 9                 | 17000   | 2060   | 11900  | 13700  | 9020      | 4270     | 12200      | 1770       | 9510      | 10700  | 3700   | 2970   |
| 10                | 15200   | 7000   | 12100  | 1990   | 11200     | 4210     | 2440       | 7150       | 9320      | 11600  | 3690   | 2660   |
| 11                | 6780    | 9500   | 8490   | 2430   | 11900     | 6190     | 2060       | 6740       | 9370      | 6750   | 4950   | 2340   |
| 12                | 4960    | 11000  | 9470   | 8470   | 12000     | 6240     | 12800      | 6390       | 1950      | 9130   | 6850   | 2330   |
| 13                | 10300   | 9460   | 1560   | 8510   | 11900     | 3650     | 13200      | 9090       | 1840      | 8910   | 5030   | 4290   |
| 14                | 6090    | 8890   | 1480   | 8700   | 2250      | 9390     | 13300      | 10500      | 7290      | 9230   | 1480   | 4350   |
| 15                | 6050    | 9490   | 6150   | 8740   | 1870      | 12900    | 13300      | 12800      | 7240      | 9260   | 1480   | 3630   |
| 16                | 10300   | 8540   | 9560   | 8590   | 8310      | 19200    | 13500      | 12700      | 7180      | 9260   | 5220   | 3630   |
| 17                | 10600   | 8630   | 5430   | 1900   | 9040      | 19300    | 2260       | 12000      | 7270      | 1840   | 6180   | 3600   |
| 18                | 2380    | 7470   | 7880   | 1790   | 9010      | 28000    | 1820       | 11800      | 7290      | 1850   | 5010   | 2240   |
| 19                | 2010    | 5900   | 5590   | 7620   | 9070      | 34000    | 6560       | 11800      | 1930      | 5510   | 4220   | 2210   |
| 20                | 7560    | 8500   | 1670   | 7310   | 7870      | 30400    | 11300      | 11800      | 2170      | 5770   | 3910   | 3640   |
| 21                | 6870    | 9000   | 2850   | 5780   | 2020      | 17300    | 9740       | 11300      | 6880      | 7090   | 2500   | 3510   |
| 22                | 6690    | 10300  | 6520   | 6100   | 2080      | 17300    | 11300      | 5610       | 9360      | 6570   | 2520   | 3900   |
| 23                | 6520    | 2750   | 3990   | 4640   | 5070      | 17200    | 10700      | 9720       | 9300      | 5640   | 5260   | 3670   |
| 24                | 6390    | 8940   | 3950   | 1760   | 6650      | 17300    | 2010       | 11600      | 9310      | 5220   | 6670   | 3730   |
| 25                | 2560    | 13000  | 3990   | 1670   | 6540      | 17600    | 2000       | 7720       | 9360      | 1610   | 6660   | 2760   |
| 26                | 1980    | 10900  | 4210   | 7080   | 6550      | 17700    | 2800       | 5180       | 1790      | 6560   | 5470   | 2330   |
| 27                | 7410    | 10700  | 1410   | 9760   | 6660      | 17500    | 5310       | 5280       | 1750      | 5620   | 5450   | 6660   |
| 28                | 7250    | 10700  | 1280   | 9490   | 1960      | 5910     | 5650       | 9140       | 5170      | 5520   | 2090   | 4110   |
| 29                | 7430    | 1730   | 6560   | 16000  | 1800      | 17600    | 5260       | 2180       | 4640      | 4260   | 2560   | 3880   |
| 30                | 7220    | 1630   | 6860   | 19800  | ---       | 17800    | 4190       | 7840       | 5050      | 3730   | 4430   | 3410   |
| 31                | 6910    | ---    | 7150   | 17100  | ---       | 18800    | ---        | 16100      | ---       | 1550   | 3080   | ---    |
| TOTAL             | 240900  | 223730 | 201970 | 289830 | 264140    | 411810   | 282770     | 264140     | 234500    | 191230 | 122260 | 100070 |
| MEAN              | 7771    | 7458   | 6515   | 9349   | 9108      | 13280    | 9426       | 8521       | 7817      | 6169   | 3944   | 3336   |
| MAX               | 17200   | 13000  | 12500  | 19800  | 22300     | 34000    | 19100      | 16100      | 17300     | 11600  | 6850   | 6660   |
| MIN               | 1980    | 1630   | 1280   | 1670   | 1800      | 1770     | 1820       | 1770       | 1750      | 1550   | 1480   | 1710   |
| (†)               | -267    | -1712  | -582   | +1600  | -1977     | +1285    | +1904      | +516       | -444      | -781   | -584   | -501   |
| CAL YR 1975 TOTAL | 2789280 |        |        | 7642   | MAX 44400 | MIN 652  | MEAN† 7744 | CFSM† 2.18 | IN† 29.59 |        |        |        |
| WTR YR 1976 TOTAL | 2827350 |        |        | 7725   | MAX 34000 | MIN 1280 | MEAN† 7390 | CFSM† 2.08 | IN† 28.31 |        |        |        |

† Change in contents, equivalent in cubic feet per second, in West Point Lake.

‡ Adjusted for change in contents in Lakes Sidney Lanier and West Point.

## APALACHICOLA RIVER BASIN

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.--Continued

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

| DAY  | OCT   | NOV  | DEC  | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL  | AUG  | SEP  |
|------|-------|------|------|-------|-------|-------|-------|-------|-------|------|------|------|
| 1    | 4.79  | 3.27 | 8.20 | 7.83  | 10.50 | 6.20  | 11.23 | 3.18  | 7.98  | 4.90 | 2.84 | 3.87 |
| 2    | 5.88  | 3.08 | 6.48 | 7.86  | 10.59 | 6.93  | 10.76 | 3.11  | 7.37  | 4.89 | 4.72 | 4.40 |
| 3    | ---   | 5.46 | 7.61 | 10.49 | 12.40 | 6.74  | 10.02 | 7.22  | 7.98  | 2.87 | 3.74 | 4.29 |
| 4    | ---   | 5.56 | 7.47 | 10.48 | 11.43 | 6.56  | 5.45  | 7.29  | 8.28  | 2.86 | 4.14 | 3.47 |
| 5    | ---   | 5.95 | 7.40 | 9.09  | 11.58 | 6.70  | 10.51 | 7.30  | 10.55 | 2.88 | 4.10 | 3.45 |
| 6    | ---   | 4.25 | 5.97 | 8.36  | 11.45 | 3.21  | 10.52 | 7.30  | 10.36 | 7.43 | 4.11 | 2.94 |
| 7    | ---   | 6.91 | 2.89 | 8.63  | 3.78  | 2.98  | 8.42  | 7.34  | 7.00  | 7.57 | 2.84 | 3.35 |
| 8    | 10.46 | 6.81 | 6.76 | 8.60  | 3.07  | 4.29  | 8.20  | 3.10  | 6.76  | 7.47 | 2.84 | 3.81 |
| 9    | 10.41 | 3.16 | 7.95 | 8.76  | 6.73  | 4.41  | 8.18  | 2.98  | 6.87  | 7.48 | 4.10 | 3.93 |
| 10   | 9.61  | ---  | 8.08 | 3.10  | 7.96  | 4.39  | 3.39  | 5.83  | 6.77  | 7.90 | 4.10 | 3.54 |
| 11   | 5.64  | ---  | 6.44 | 3.39  | 7.18  | 5.46  | 3.16  | 5.51  | 6.81  | 5.53 | 4.71 | 3.31 |
| 12   | 4.66  | ---  | 6.89 | 6.45  | 8.05  | 5.49  | 8.43  | 5.44  | 3.09  | 6.71 | 5.66 | 3.31 |
| 13   | 7.27  | 7.13 | 2.85 | 6.48  | 8.02  | 4.06  | 8.65  | 6.70  | 3.02  | 6.62 | 4.76 | 4.35 |
| 14   | 5.29  | 6.94 | 2.80 | 6.54  | 3.27  | 7.20  | 8.69  | 7.30  | 5.79  | 6.78 | 2.80 | 4.39 |
| 15   | 5.18  | 7.23 | 5.26 | 6.54  | 3.04  | 8.59  | 8.69  | 8.66  | 5.74  | 6.76 | 2.80 | 3.96 |
| 16   | 7.28  | 6.77 | 6.85 | 6.45  | 6.63  | 11.29 | 8.77  | 8.44  | 5.72  | 6.75 | 4.86 | 3.97 |
| 17   | 7.42  | 6.81 | 4.86 | 3.06  | 7.02  | 11.31 | 3.28  | 8.08  | 5.78  | 3.03 | 5.34 | 3.95 |
| 18   | 3.36  | 6.20 | 6.09 | 3.00  | 7.00  | 14.16 | 3.01  | 8.00  | 5.79  | 3.03 | 4.82 | 3.25 |
| 19   | 3.13  | 5.53 | 5.07 | 6.15  | 7.04  | 15.98 | 5.49  | 7.99  | 3.08  | 4.96 | 4.40 | 3.23 |
| 20   | 5.93  | 6.75 | 2.92 | 6.06  | 6.39  | 14.87 | 7.73  | 7.98  | 3.23  | 5.13 | 4.21 | 3.97 |
| 21   | 5.60  | 7.00 | 3.56 | 5.25  | 3.13  | 10.55 | 7.02  | 7.79  | 5.60  | 5.79 | 3.41 | 3.89 |
| 22   | 5.52  | 7.52 | 5.46 | 5.40  | 3.17  | 10.55 | 7.72  | 4.96  | 6.80  | 5.51 | 3.42 | 4.09 |
| 23   | 5.41  | 3.59 | 4.18 | 4.61  | 4.86  | 10.50 | 7.44  | 6.91  | 6.76  | 5.06 | 4.84 | 3.98 |
| 24   | 5.48  | 6.89 | 4.15 | 2.98  | 5.71  | 10.52 | 3.13  | 8.09  | 6.77  | 4.75 | 5.52 | 4.01 |
| 25   | 3.47  | 8.70 | 4.17 | 2.92  | 5.66  | 10.64 | 3.12  | 6.33  | 6.79  | 2.88 | 5.52 | 3.56 |
| 26   | 3.12  | 7.56 | 4.30 | 5.93  | 5.66  | 10.69 | 3.59  | 4.93  | 3.00  | 5.49 | 4.94 | 3.30 |
| 27   | 5.95  | 7.44 | 2.76 | 7.38  | 5.72  | 10.63 | 4.89  | 4.97  | 2.97  | 5.03 | 4.93 | 5.46 |
| 28   | 5.87  | 7.41 | 2.67 | 7.24  | 3.10  | 5.12  | 4.97  | 6.74  | 4.71  | 5.43 | 3.17 | 4.22 |
| 29   | 5.96  | 2.95 | 5.51 | 9.87  | 3.00  | 10.64 | 4.78  | 3.22  | 4.36  | 4.43 | 3.44 | 4.13 |
| 30   | 5.86  | 2.89 | 5.64 | 11.48 | ---   | 10.74 | 4.31  | 6.01  | 4.64  | 4.12 | 4.43 | 3.87 |
| 31   | 5.69  | ---  | 5.73 | 10.47 | ---   | 11.13 | ---   | 10.07 | ---   | 2.84 | 3.74 | ---  |
| MEAN |       |      | 5.39 | 6.80  | 6.66  | 8.47  | 6.79  | 6.41  | 6.01  | 5.25 | 4.17 | 3.84 |
| MAX  |       |      | 8.20 | 11.48 | 12.40 | 15.98 | 11.23 | 10.07 | 10.55 | 7.90 | 5.66 | 5.46 |
| MIN  |       |      | 2.67 | 2.92  | 3.00  | 2.98  | 3.01  | 2.98  | 2.97  | 2.84 | 2.80 | 2.94 |



## 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                               |               |                             |                                    |
| 22... | 0750 | 1990                                          | 6.9           | 16.5                        | 5.8                                |
| NOV.  |      |                                               |               |                             |                                    |
| 19... | 1215 | 4170                                          | 7.1           | 15.0                        | 2.0                                |
| DEC.  |      |                                               |               |                             |                                    |
| 17... | 1315 | 7860                                          | 6.8           | 11.0                        | 10.0                               |
| JAN.  |      |                                               |               |                             |                                    |
| 14... | 0925 | 16200                                         | 6.7           | 6.0                         | 10.0                               |
| FEB.  |      |                                               |               |                             |                                    |
| 24... | 1100 | 8790                                          | 7.0           | 10.5                        | 9.8                                |
| MAR.  |      |                                               |               |                             |                                    |
| 23... | 1600 | 17200                                         | 6.6           | 12.0                        | 9.4                                |
| APR.  |      |                                               |               |                             |                                    |
| 21... | 1345 | 17400                                         | 6.8           | 15.0                        | 6.4                                |
| MAY   |      |                                               |               |                             |                                    |
| 18... | 1245 | 16700                                         | 7.0           | 19.0                        | 5.3                                |
| JUNE  |      |                                               |               |                             |                                    |
| 22... | 1215 | 16100                                         | 6.5           | 22.0                        | 3.3                                |
| JULY  |      |                                               |               |                             |                                    |
| 28... | 0945 | 6730                                          | 6.6           | 23.0                        | 1.8                                |
| SEP.  |      |                                               |               |                             |                                    |
| 01... | 0905 | 5200                                          | 7.1           | 25.5                        | 5.3                                |

| DATE  | TOTAL<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | ALKA-<br>LINITY<br>AS<br>CaCO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) |
|-------|---------------------------------|-------------------------------------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|
| OCT.  |                                 |                                           |                                          |                                                      |                                                    |                                           |
| 22... | 600                             | 130                                       | 19                                       | .34                                                  | .04                                                | <.02                                      |
| DEC.  |                                 |                                           |                                          |                                                      |                                                    |                                           |
| 17... | 1300                            | 300                                       | 20                                       | .26                                                  | .03                                                | .04                                       |
| JAN.  |                                 |                                           |                                          |                                                      |                                                    |                                           |
| 14... | 1100                            | 160                                       | 13                                       | .34                                                  | .11                                                | .60                                       |
| FEB.  |                                 |                                           |                                          |                                                      |                                                    |                                           |
| 24... | 800                             | 130                                       | 14                                       | .30                                                  | .03                                                | .04                                       |
| MAR.  |                                 |                                           |                                          |                                                      |                                                    |                                           |
| 23... | 2500                            | 120                                       | 12                                       | .26                                                  | .06                                                | .07                                       |
| APR.  |                                 |                                           |                                          |                                                      |                                                    |                                           |
| 21... | 500                             | 130                                       | 12                                       | .33                                                  | .04                                                | .05                                       |
| MAY   |                                 |                                           |                                          |                                                      |                                                    |                                           |
| 18... | 390                             | 160                                       | 15                                       | .17                                                  | .08                                                | .02                                       |
| JUNE  |                                 |                                           |                                          |                                                      |                                                    |                                           |
| 22... | 350                             | 250                                       | 14                                       | .29                                                  | .11                                                | .03                                       |
| JULY  |                                 |                                           |                                          |                                                      |                                                    |                                           |
| 28... | 1900                            | 690                                       | 17                                       | .15                                                  | .29                                                | .02                                       |
| SEP.  |                                 |                                           |                                          |                                                      |                                                    |                                           |
| 01... | 1100                            | 360                                       | 17                                       | .10                                                  | .18                                                | .02                                       |

## APALACHICOLA RIVER BASIN

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | RIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FFCAL<br>COLI-<br>FORM<br>(FC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>22... | 17                                 | 59                                                         | 20                                           | 8                            | .8                                                           | 240                                              | 3.0                                         |
| DEC.<br>17... | 19                                 | 58                                                         | 30                                           | 18                           | 1.0                                                          | 2300                                             | 2.0                                         |
| JAN.<br>14... | 14                                 | 53                                                         | 60                                           | 30                           | .7                                                           | 36                                               | 8.0                                         |
| FEB.<br>24... | 13                                 | 48                                                         | 30                                           | 15                           | 1.0                                                          | 230                                              | 3.0                                         |
| MAR.<br>23... | 12                                 | 42                                                         | 100                                          | 56                           | 1.0                                                          | 390                                              | 6.0                                         |
| APR.<br>21... | 12                                 | 44                                                         | 20                                           | 11                           | .7                                                           | <30                                              | 3.0                                         |
| MAY<br>18...  | 49                                 | 47                                                         | 10                                           | 10                           | 1.3                                                          | 150                                              | 3.0                                         |
| JUNE<br>22... | 11                                 | 48                                                         | 8                                            | 7                            | 8.0                                                          | <30                                              | 2.0                                         |
| JULY<br>28... | 14                                 | 53                                                         | 20                                           | 12                           | .6                                                           | 36                                               | 2.0                                         |
| SEP.<br>01... | 14                                 | 59                                                         | <5                                           | 5                            | .5                                                           | <30                                              | 4.0                                         |

## APALACHICOLA RIVER BASIN

257

02339720 LONG CANE CREEK NEAR WEST POINT, GA.

LOCATION.--Lat 32°54'37", long 85°08'43", Troup County, at bridge on Webb Road 2.5 mi (4.0 km) northeast of West Point.

DRAINAGE AREA.--74.8 mi<sup>2</sup> (194 km<sup>2</sup>), 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.<br>22... | 0845 | 119                                           | 6.8           | 12.5                        | 3.6                                |
| NOV.<br>19... | 1125 | 94                                            | 6.9           | 10.0                        | 3.6                                |
| DEC.<br>17... | 1225 | 196                                           | 6.7           | 11.5                        | 6.8                                |
| JAN.<br>14... | 0840 | 153                                           | 6.8           | 8.5                         | 7.0                                |
| FEB.<br>24... | 1015 | 225                                           | 6.9           | 8.0                         | 8.0                                |
| MAR.<br>23... | 1645 | 201                                           | 7.1           | 15.0                        | 8.1                                |
| APR.<br>21... | 1310 | 76                                            | 7.0           | 19.0                        | 2.7                                |
| MAY<br>18...  | 1145 | 158                                           | 6.9           | 18.5                        | 4.7                                |
| JUNE<br>22... | 1130 | 94                                            | 6.8           | 21.0                        | 3.0                                |
| JULY<br>28... | 0900 | 40                                            | 7.1           | 23.5                        | .6                                 |
| SEP.<br>01... | 0940 | 30                                            | 7.0           | 22.5                        | .5                                 |

| DATE          | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) |
|---------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|
| OCT.<br>22... | 28                                       | .34                                                  | .14                                                | .26                                       | 16                                  |
| DEC.<br>17... | 32                                       | .44                                                  | .20                                                | .70                                       | 27                                  |
| JAN.<br>14... | 27                                       | .60                                                  | .10                                                | .09                                       | 22                                  |
| FEB.<br>24... | 23                                       | .22                                                  | .09                                                | .28                                       | 21                                  |
| MAR.<br>23... | 22                                       | .23                                                  | .13                                                | .25                                       | 20                                  |
| APR.<br>21... | 37                                       | .27                                                  | .32                                                | .73                                       | 32                                  |
| MAY<br>18...  | 26                                       | .39                                                  | .18                                                | .32                                       | 23                                  |
| JUNE<br>22... | 37                                       | .18                                                  | .29                                                | .85                                       | 30                                  |
| JULY<br>28... | 61                                       | <.02                                                 | 1.6                                                | 2.3                                       | 35                                  |
| SEP.<br>01... | 62                                       | <.02                                                 | 2.2                                                | 3.0                                       | 36                                  |

## APALACHICOLA RIVER BASIN

02339720 LONG CANE CREEK NEAR WEST POINT, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | RIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>22... | 118                                                        | 40                                           | 17                           | 2.6                                                          | 9300                                             | 6.0                                         |
| DEC.<br>17... | 114                                                        | 40                                           | 27                           | 2.8                                                          | 2300                                             | 7.0                                         |
| JAN.<br>14... | 99                                                         | 70                                           | 62                           | 1.9                                                          | 430                                              | 5.0                                         |
| FEB.<br>24... | 79                                                         | 70                                           | 37                           | 4.1                                                          | 43000                                            | 7.0                                         |
| MAR.<br>23... | 75                                                         | 80                                           | 33                           | 1.6                                                          | 930                                              | 5.0                                         |
| APR.<br>21... | 135                                                        | 50                                           | 15                           | 3.5                                                          | 23000                                            | 10                                          |
| MAY<br>18...  | 85                                                         | 60                                           | 45                           | 2.1                                                          | 23000                                            | 7.0                                         |
| JUNE<br>22... | 116                                                        | 35                                           | 16                           | 3.2                                                          | 9300                                             | 7.0                                         |
| JULY<br>28... | 203                                                        | 50                                           | 14                           | >6.6                                                         | 23000                                            | 20                                          |
| SEP.<br>01... | 242                                                        | 80                                           | 18                           | >13                                                          | 460000                                           | 35                                          |

02341500 CHATTAHOOCHEE RIVER AT COLUMBUS, GA.

LOCATION.--Lat 32°27'45", long 84°59'52", Muscogee County, 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 mi<sup>2</sup> (12,100 km<sup>2</sup>), 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 Lakes Sidney Lanier, West Point, and Bartletts Ferry Reservoir (See 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.--47 years, 6,765 ft<sup>3</sup>/s (192 m<sup>3</sup>/s), 19.67 in/yr (499.6 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 145,000 ft<sup>3</sup>/s (4,110 m<sup>3</sup>/s) Feb. 26, 1961; maximum gage height, 47.8 ft (14.57 m) Feb. 25, 1961; minimum discharge, 294 ft<sup>3</sup>/s (8.33 m<sup>3</sup>/s) Oct. 23, Nov. 14, 1931; minimum daily, 480 ft<sup>3</sup>/s (13.6 m<sup>3</sup>/s) Oct. 31, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known since at least 1827, 198,000 ft<sup>3</sup>/s (5,610 m<sup>3</sup>/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, 52,200 ft<sup>3</sup>/s (1,480 m<sup>3</sup>/s) Mar. 31, gage height, 24.54 ft (7.480 m); minimum daily, 1,280 ft<sup>3</sup>/s (36.2 m<sup>3</sup>/s) Sept. 26.

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

| DAY   | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1     | 5430   | 4970   | 7800   | 5770   | 17100  | 5710   | 34500  | 5680   | 9100   | 5670   | 1650   | 4020   |
| 2     | 6730   | 1650   | 9890   | 10100  | 19800  | 7590   | 25700  | 2250   | 11200  | 5620   | 3760   | 4660   |
| 3     | 4920   | 5730   | 9970   | 11300  | 22500  | 6980   | 18000  | 6620   | 11900  | 4720   | 4430   | 3590   |
| 4     | 2300   | 7150   | 11300  | 20300  | 21500  | 7040   | 16000  | 8350   | 19600  | 3750   | 2740   | 2690   |
| 5     | 4850   | 6240   | 10200  | 15700  | 22300  | 8960   | 14600  | 9340   | 21400  | 3570   | 4310   | 1850   |
| 6     | 12000  | 3690   | 10300  | 14400  | 21300  | 8220   | 18900  | 10500  | 18100  | 6920   | 2550   | 2050   |
| 7     | 23200  | 7570   | 9890   | 14400  | 14900  | 3160   | 16100  | 12000  | 16400  | 10600  | 2000   | 4070   |
| 8     | 21100  | 9060   | 9700   | 15100  | 8540   | 4090   | 14600  | 10300  | 9910   | 10100  | 3320   | 3100   |
| 9     | 18900  | 8480   | 10800  | 15700  | 8450   | 7270   | 14200  | 1640   | 8790   | 12500  | 4090   | 3900   |
| 10    | 16800  | 7580   | 9480   | 13600  | 9470   | 5770   | 12400  | 5890   | 10300  | 12400  | 5580   | 4540   |
| 11    | 11000  | 7560   | 10400  | 8800   | 9320   | 7040   | 11300  | 7400   | 10200  | 11800  | 5360   | 1460   |
| 12    | 8510   | 8950   | 9640   | 7810   | 10300  | 6790   | 10400  | 8820   | 9820   | 9250   | 4760   | 2000   |
| 13    | 7760   | 9120   | 8530   | 6320   | 11100  | 9870   | 8210   | 7460   | 7520   | 10400  | 7750   | 5190   |
| 14    | 7700   | 11100  | 6790   | 7830   | 10500  | 9710   | 9450   | 10200  | 5960   | 10100  | 5060   | 4840   |
| 15    | 8130   | 12100  | 7960   | 6230   | 7960   | 14100  | 13300  | 21400  | 5890   | 10400  | 1730   | 4810   |
| 16    | 7370   | 9470   | 9310   | 10600  | 9790   | 35500  | 13800  | 20100  | 4670   | 10100  | 4120   | 4600   |
| 17    | 14300  | 10800  | 8810   | 8530   | 8220   | 28100  | 12100  | 15700  | 8800   | 3460   | 4400   | 3120   |
| 18    | 14600  | 10300  | 10600  | 8010   | 9180   | 24000  | 6640   | 14200  | 6850   | 3000   | 5240   | 2290   |
| 19    | 5640   | 7320   | 10200  | 7080   | 9620   | 31700  | 7220   | 12500  | 6410   | 3450   | 5090   | 2030   |
| 20    | 7070   | 9490   | 7910   | 6410   | 8010   | 34200  | 7620   | 13500  | 4560   | 5150   | 5970   | 4600   |
| 21    | 8460   | 6830   | 1400   | 6710   | 4310   | 20500  | 7850   | 12200  | 4920   | 7120   | 3350   | 3940   |
| 22    | 7300   | 10400  | 5700   | 7770   | 7080   | 21300  | 10400  | 12700  | 6860   | 9170   | 2330   | 3210   |
| 23    | 7910   | 10500  | 6870   | 4730   | 8610   | 17700  | 10500  | 6660   | 10200  | 7130   | 5460   | 3480   |
| 24    | 5850   | 9260   | 4620   | 2380   | 6280   | 22300  | 8790   | 12100  | 11200  | 4590   | 5060   | 4840   |
| 25    | 4750   | 8810   | 3820   | 1740   | 7840   | 17500  | 3760   | 10900  | 10400  | 1700   | 5350   | 5330   |
| 26    | 2960   | 9750   | 7150   | 8450   | 9590   | 18900  | 8760   | 9730   | 5670   | 5360   | 5510   | 1280   |
| 27    | 7200   | 9760   | 6670   | 11700  | 7660   | 22100  | 6500   | 8100   | 2000   | 3610   | 7360   | 5340   |
| 28    | 6150   | 12000  | 4000   | 14200  | 4460   | 14800  | 6950   | 12400  | 4070   | 5540   | 4880   | 3640   |
| 29    | 8090   | 10200  | 5610   | 14100  | 4330   | 13800  | 4670   | 9740   | 4780   | 6230   | 2890   | 5410   |
| 30    | 7240   | 5200   | 5160   | 20400  | ---    | 20000  | 5080   | 9740   | 5490   | 4730   | 5240   | 2380   |
| 31    | 8760   | ---    | 7450   | 19800  | ---    | 36300  | ---    | 9800   | ---    | 2360   | 3540   | ---    |
| TOTAL | 282980 | 251040 | 247930 | 325970 | 320020 | 491000 | 358300 | 317920 | 272970 | 210500 | 134880 | 108260 |
| MEAN  | 9128   | 8368   | 7998   | 10520  | 11040  | 15840  | 11940  | 10260  | 9099   | 6790   | 4351   | 3609   |
| MAX   | 23200  | 12100  | 11300  | 20400  | 22500  | 36300  | 34500  | 21400  | 21400  | 12500  | 7750   | 5410   |
| MIN   | 2300   | 1650   | 1400   | 1740   | 4310   | 3160   | 3760   | 1640   | 2000   | 1700   | 1650   | 1280   |
| (†)   | -33    | -185   | -179   | +423   | -313   | +276   | -185   | +65    | +101   | -16    | -65    | +50    |

CAL YR 1975 TOTAL 3706750 MEAN 10160 MAX 73300 MIN 860 MEAN† 10230 CFSM† 2.19 IN† 29.73  
WTR YR 1976 TOTAL 3321770 MEAN 9076 MAX 36300 MIN 1280 MEAN† 8738 CFSM† 1.87 IN† 25.45

† Change in contents, equivalent in cubic feet per second, in Bartletts Ferry Reservoir.

‡ Adjusted for change in contents in Lakes Sidney Lanier, West Point, and Bartletts Ferry Reservoir.

02341500 CHATTAHOOCHEE RIVER AT COLUMBUS, GA.--Continued

| DAY  | OCT   | NOV  | DEC  | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG  | SEP  |
|------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 1    | 7.27  | 7.44 | 7.26 | 6.00  | 11.55 | 5.54  | 19.64 | 7.83  | 9.60  | 8.39  | 6.39 | 6.36 |
| 2    | 7.76  | 6.64 | 8.25 | 8.02  | 12.89 | 6.59  | 16.62 | 6.66  | 10.33 | 8.26  | 6.95 | 6.49 |
| 3    | 7.36  | 7.92 | 8.18 | 8.54  | 14.20 | 6.25  | 12.47 | 7.83  | 10.63 | 7.90  | 6.96 | 6.01 |
| 4    | 6.52  | 8.37 | 8.42 | 12.98 | 13.79 | 6.26  | 11.24 | 8.35  | 14.80 | 7.51  | 6.26 | 5.83 |
| 5    | 7.46  | 8.03 | 8.06 | 11.10 | 13.92 | 7.21  | 10.39 | 8.64  | 15.41 | 7.12  | 6.68 | 5.66 |
| 6    | 10.31 | 7.07 | 8.08 | 10.38 | 13.55 | 6.98  | 12.49 | 9.03  | 13.62 | 7.90  | 6.13 | 5.81 |
| 7    | 15.47 | 8.30 | 7.93 | 10.37 | 10.81 | 4.40  | 11.39 | 9.72  | 12.74 | 9.25  | 5.80 | 6.41 |
| 8    | 14.97 | 8.76 | 7.83 | 11.00 | 7.42  | 4.95  | 10.34 | 9.07  | 10.16 | 9.10  | 5.93 | 6.08 |
| 9    | 13.79 | 8.35 | 8.39 | 11.29 | 7.25  | 6.71  | 10.16 | 6.42  | 9.76  | 10.08 | 6.65 | 6.35 |
| 10   | 12.78 | 8.34 | 7.59 | 10.37 | 7.80  | 6.10  | 9.19  | 7.42  | 10.21 | 10.09 | 7.20 | 6.57 |
| 11   | 10.60 | 8.05 | 8.06 | 7.90  | 7.51  | 6.56  | 8.73  | 7.82  | 10.14 | 9.87  | 6.93 | 5.42 |
| 12   | 9.07  | 8.44 | 7.53 | 7.61  | 7.98  | 6.31  | 8.55  | 8.29  | 9.98  | 8.83  | 6.61 | 5.76 |
| 13   | 8.58  | 8.24 | 6.96 | 6.49  | 8.40  | 8.24  | 7.55  | 7.93  | 8.38  | 9.18  | 7.80 | 6.86 |
| 14   | 8.29  | 8.61 | 6.01 | 7.16  | 8.04  | 8.10  | 8.00  | 9.29  | 8.72  | 9.00  | 6.80 | 6.68 |
| 15   | 8.27  | 8.96 | 6.72 | 6.18  | 6.74  | 10.37 | 9.90  | 15.06 | 8.31  | 9.04  | 5.78 | 6.64 |
| 16   | 7.73  | 7.81 | 7.55 | 8.23  | 7.93  | 19.10 | 10.20 | 14.74 | 7.84  | 8.96  | 6.74 | 6.48 |
| 17   | 10.95 | 8.46 | 7.28 | 7.13  | 7.09  | 12.51 | 9.52  | 12.38 | 8.94  | 7.01  | 6.79 | 5.85 |
| 18   | 11.82 | 8.43 | 8.27 | 6.80  | 7.54  | 14.20 | 7.25  | 11.36 | 8.07  | 7.02  | 7.04 | 5.41 |
| 19   | 7.71  | 6.96 | 8.00 | 6.56  | 7.81  | 18.38 | 7.69  | 10.52 | 7.94  | 7.16  | 6.88 | 5.27 |
| 20   | 7.96  | 7.51 | 6.96 | 6.01  | 6.98  | 19.41 | 7.77  | 11.03 | 7.81  | 7.53  | 7.13 | 6.25 |
| 21   | 8.41  | 6.37 | 3.44 | 6.14  | 5.09  | 14.22 | 7.77  | 10.55 | 7.84  | 8.48  | 6.37 | 5.85 |
| 22   | 8.09  | 8.15 | 5.71 | 6.59  | 6.64  | 13.99 | 8.62  | 10.73 | 8.32  | 8.98  | 5.96 | 5.34 |
| 23   | 8.27  | 8.30 | 6.23 | 5.02  | 7.67  | 12.46 | 8.70  | 8.66  | 9.27  | 8.39  | 6.87 | 5.24 |
| 24   | 7.44  | 7.77 | 4.95 | 3.36  | 6.38  | 14.20 | 7.90  | 10.65 | 9.67  | 7.50  | 6.74 | 5.86 |
| 25   | 7.07  | 7.47 | 4.30 | 3.01  | 6.90  | 12.01 | 6.38  | 9.91  | 9.47  | 6.75  | 6.81 | 5.94 |
| 26   | 6.71  | 7.78 | 6.30 | 6.98  | 7.81  | 12.69 | 8.37  | 9.49  | 8.06  | 7.94  | 6.76 | 4.46 |
| 27   | 8.25  | 7.77 | 5.92 | 9.43  | 6.64  | 14.20 | 7.74  | 8.93  | 6.81  | 7.36  | 7.66 | 6.15 |
| 28   | 7.83  | 9.04 | 4.86 | 10.80 | 4.68  | 10.78 | 7.88  | 10.67 | 7.34  | 7.70  | 6.82 | 5.22 |
| 29   | 8.54  | 8.22 | 5.80 | 10.42 | 4.67  | 9.82  | 7.00  | 9.88  | 7.60  | 7.97  | 6.25 | 6.24 |
| 30   | 8.20  | 5.79 | 5.48 | 12.97 | ---   | 12.95 | 7.18  | 9.85  | 7.94  | 7.50  | 7.13 | 4.91 |
| 31   | 8.81  | ---  | 6.80 | 12.95 | ---   | 19.90 | ---   | 9.86  | ---   | 6.69  | 6.35 | ---  |
| MEAN | 9.11  | 7.91 | 6.87 | 8.32  | 8.47  | 10.69 | 9.55  | 9.63  | 9.52  | 8.21  | 6.68 | 5.91 |
| MAX  | 15.47 | 9.04 | 8.42 | 12.98 | 14.20 | 19.90 | 19.64 | 15.06 | 15.41 | 10.09 | 7.80 | 6.86 |
| MIN  | 6.52  | 5.79 | 3.44 |       |       |       |       |       |       |       |      |      |

## 02341800 UPATOI CREEK NEAR COLUMBUS, GA.

LOCATION.--Lat 32°24'48", long 84°49'12", Chattahoochee County, 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 mi<sup>2</sup> (886 km<sup>2</sup>).

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.--8 years, 506 ft<sup>3</sup>/s (14.3 m<sup>3</sup>/s), 20.09 in/yr (510.3 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,200 ft<sup>3</sup>/s (289 m<sup>3</sup>/s) Apr. 15, 1975, gage height, 15.76 ft (4.804 m); minimum, 106 ft<sup>3</sup>/s (3.00 m<sup>3</sup>/s) Oct. 5, 6, 7, 1970.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft<sup>3</sup>/s (70.8 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Jan. 27 | 1630 | 3280 92.9                                             | 9.10 2.774              | May 15 | 0900 | 3600 102                                              | 9.53 2.905              |
| Mar. 31 | 0830 | 3400 96.3                                             | 9.25 2.819              | June 4 | 1430 | *3990 113                                             | 9.98 3.042              |

Minimum discharge, 188 ft<sup>3</sup>/s (5.32 m<sup>3</sup>/s) Aug. 6.

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

| DAY         | OCT   | NOV    | DEC      | JAN      | FEB     | MAR       | APR      | MAY   | JUN   | JUL   | AUG  | SEP  |
|-------------|-------|--------|----------|----------|---------|-----------|----------|-------|-------|-------|------|------|
| 1           | 213   | 232    | 473      | 996      | 610     | 340       | 1860     | 975   | 313   | 1400  | 260  | 225  |
| 2           | 305   | 230    | 553      | 645      | 760     | 328       | 1130     | 615   | 337   | 1080  | 233  | 290  |
| 3           | 310   | 232    | 415      | 527      | 625     | 320       | 815      | 419   | 376   | 610   | 213  | 265  |
| 4           | 262   | 230    | 346      | 484      | 536     | 318       | 675      | 325   | 2130  | 520   | 208  | 245  |
| 5           | 280   | 230    | 315      | 428      | 492     | 315       | 588      | 290   | 1720  | 520   | 198  | 262  |
| 6           | 382   | 230    | 303      | 398      | 468     | 310       | 540      | 273   | 890   | 520   | 188  | 262  |
| 7           | 367   | 232    | 300      | 446      | 450     | 320       | 513      | 273   | 536   | 499   | 394  | 328  |
| 8           | 454   | 242    | 301      | 1030     | 422     | 318       | 482      | 310   | 412   | 419   | 517  | 373  |
| 9           | 447   | 240    | 305      | 807      | 409     | 800       | 454      | 358   | 379   | 349   | 292  | 343  |
| 10          | 351   | 309    | 307      | 590      | 397     | 835       | 422      | 318   | 503   | 318   | 257  | 282  |
| 11          | 289   | 357    | 295      | 511      | 385     | 540       | 403      | 283   | 403   | 295   | 235  | 245  |
| 12          | 265   | 314    | 284      | 496      | 379     | 436       | 388      | 263   | 331   | 270   | 295  | 220  |
| 13          | 262   | 417    | 280      | 476      | 367     | 1390      | 370      | 253   | 298   | 268   | 257  | 207  |
| 14          | 248   | 361    | 281      | 464      | 361     | 1450      | 373      | 382   | 280   | 268   | 230  | 202  |
| 15          | 241   | 290    | 281      | 447      | 361     | 1550      | 379      | 2470  | 258   | 243   | 215  | 205  |
| 16          | 239   | 262    | 299      | 412      | 349     | 1700      | 361      | 1150  | 243   | 230   | 425  | 205  |
| 17          | 565   | 252    | 384      | 396      | 337     | 1270      | 340      | 745   | 238   | 223   | 346  | 197  |
| 18          | 900   | 250    | 457      | 376      | 343     | 865       | 325      | 478   | 240   | 218   | 305  | 192  |
| 19          | 616   | 247    | 383      | 355      | 400     | 700       | 313      | 382   | 308   | 215   | 265  | 192  |
| 20          | 410   | 242    | 325      | 355      | 376     | 605       | 300      | 337   | 1090  | 210   | 232  | 195  |
| 21          | 320   | 267    | 307      | 359      | 340     | 720       | 288      | 310   | 895   | 268   | 220  | 205  |
| 22          | 290   | 277    | 299      | 352      | 725     | 795       | 300      | 300   | 568   | 310   | 217  | 225  |
| 23          | 275   | 270    | 293      | 343      | 795     | 615       | 305      | 352   | 391   | 225   | 212  | 212  |
| 24          | 267   | 272    | 287      | 343      | 520     | 536       | 278      | 373   | 328   | 230   | 225  | 197  |
| 25          | 262   | 262    | 293      | 346      | 433     | 499       | 379      | 388   | 295   | 238   | 227  | 195  |
| 26          | 257   | 252    | 457      | 599      | 397     | 482       | 468      | 315   | 275   | 230   | 245  | 197  |
| 27          | 255   | 255    | 493      | 2450     | 379     | 600       | 367      | 290   | 263   | 275   | 302  | 202  |
| 28          | 260   | 260    | 392      | 2230     | 364     | 750       | 315      | 412   | 355   | 283   | 343  | 400  |
| 29          | 255   | 252    | 339      | 1150     | 352     | 576       | 285      | 520   | 388   | 248   | 315  | 443  |
| 30          | 247   | 247    | 374      | 775      | ---     | 510       | 337      | 499   | 343   | 373   | 260  | 432  |
| 31          | 240   | ---    | 719      | 625      | ---     | 2510      | ---      | 391   | ---   | 320   | 242  | ---  |
| TOTAL       | 10334 | 8013   | 11140    | 20211    | 13132   | 23303     | 14353    | 15049 | 15386 | 11675 | 8373 | 7643 |
| MEAN        | 333   | 267    | 359      | 652      | 453     | 752       | 478      | 485   | 513   | 377   | 270  | 255  |
| MAX         | 900   | 417    | 719      | 2450     | 795     | 2510      | 1860     | 2470  | 2130  | 1400  | 517  | 443  |
| MIN         | 213   | 230    | 280      | 343      | 337     | 310       | 278      | 253   | 238   | 210   | 188  | 192  |
| CFSM        | .97   | .78    | 1.05     | 1.91     | 1.32    | 2.20      | 1.40     | 1.42  | 1.50  | 1.10  | .79  | .75  |
| IN.         | 1.12  | .87    | 1.21     | 2.20     | 1.43    | 2.53      | 1.56     | 1.64  | 1.67  | 1.27  | .91  | .83  |
| CAL YR 1975 | TOTAL | 272494 | MEAN 747 | MAX 8670 | MIN 213 | CFSM 2.18 | IN 29.64 |       |       |       |      |      |
| WTR YR 1976 | TOTAL | 158612 | MEAN 433 | MAX 2510 | MIN 188 | CFSM 1.27 | IN 17.25 |       |       |       |      |      |



## APALACHICOLA RIVER BASIN

02344040 CHATTAHOOCHEE RIVER NEAR STEAM MILL, GA.

LOCATION.--Lat 30°58'39", long 85°00'19", Seminole County, 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.--Flow regulated by Lakes Sidney Lanier, West Point, Bartletts Ferry Reservoir (Lake Harding), and Walter F. George Lake (see stations 02334400, 02339400, 02341000, 02343240), and by Columbia Reservoir. 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 1975 TO SEPTEMBER 1976

| DATE          | TIME | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|---------------|-----------------------------|------------------------------------|
| OCT.<br>08... | 1400 | 7.2           | 21.5                        | 7.7                                |
| DEC.<br>09... | 0830 | 7.0           | 13.0                        | 9.4                                |
| JAN.<br>07... | 1400 | 7.2           | 9.0                         | 11.9                               |
| FEB.<br>10... | 0900 | 7.1           | 8.0                         | 11.0                               |
| MAR.<br>10... | 1345 | 7.1           | 16.5                        | 8.8                                |
| APR.<br>06... | 1530 | 7.0           | 17.0                        | 9.2                                |
| MAY<br>11...  | 0800 | 6.8           | 20.5                        | 6.7                                |
| JUNE<br>09... | 1345 | 7.1           | 22.0                        | 8.2                                |
| JULY<br>08... | 1330 | 6.6           | 25.5                        | 6.6                                |
| AUG.<br>10... | 0645 | 7.2           | 27.0                        | 6.8                                |
| SEP.<br>15... | 1200 | 6.7           | 23.5                        | 7.7                                |

| DATE          | ALKA-<br>LINITY<br>AS<br>CaCO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) |
|---------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| OCT.<br>08... | 21                                       | .04                                                  | .26                                                | .11                                       | 18                                 |
| DEC.<br>09... | 22                                       | .34                                                  | .08                                                | .03                                       | 21                                 |
| JAN.<br>07... | 20                                       | .39                                                  | <.02                                               | .03                                       | 20                                 |
| FEB.<br>10... | 20                                       | .39                                                  | .04                                                | .04                                       | 19                                 |
| MAR.<br>10... | 22                                       | .35                                                  | <.02                                               | .05                                       | 24                                 |
| APR.<br>06... | 17                                       | .37                                                  | .06                                                | .06                                       | 14                                 |
| MAY<br>11...  | 21                                       | .21                                                  | .03                                                | .03                                       | 23                                 |
| JUNE<br>09... | 20                                       | .17                                                  | <.02                                               | .04                                       | 18                                 |
| JULY<br>08... | 19                                       | .17                                                  | .07                                                | .03                                       | 19                                 |
| AUG.<br>10... | 23                                       | .16                                                  | .05                                                | .04                                       | 21                                 |
| SEP.<br>15... | 34                                       | .14                                                  | <.02                                               | .03                                       | 34                                 |

02344040 CHATTAHOOCHEE RIVER NEAR STEAM MILL, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>08... | 67                                                         | 20                                           | 24                           | 1.0                                                          | 2300                                             | 22                                          |
| DEC.<br>09... | 75                                                         | 10                                           | 9                            | .8                                                           | 290                                              | 68                                          |
| JAN.<br>07... | 73                                                         | 10                                           | 10                           | 1.4                                                          | <30                                              | 4.0                                         |
| FEB.<br>10... | 68                                                         | 20                                           | 12                           | 1.2                                                          | 36                                               | 4.0                                         |
| MAR.<br>10... | 78                                                         | 10                                           | 9                            | 1.6                                                          | 430                                              | 3.0                                         |
| APR.<br>06... | 59                                                         | 50                                           | 31                           | --                                                           | --                                               | 7.0                                         |
| MAY<br>11...  | 67                                                         | 50                                           | 11                           | 1.5                                                          | 150                                              | 13                                          |
| JUNE<br>09... | 63                                                         | 20                                           | 10                           | 1.3                                                          | <30                                              | 10                                          |
| JULY<br>08... | 66                                                         | 20                                           | 33                           | 1.1                                                          | 36                                               | 6.0                                         |
| AUG.<br>10... | 73                                                         | 20                                           | 10                           | --                                                           | --                                               | 3.0                                         |
| SEP.<br>15... | 94                                                         | 8                                            | 7                            | 1.7                                                          | 36                                               | 5.0                                         |

## APALACHICOLA RIVER BASIN

02344180 FLINT RIVER NEAR JONESBORO, GA.

LOCATION.--Lat 33°32'14", long 84°22'35", Clayton County, 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 mi<sup>2</sup> (62.9 km<sup>2</sup>).

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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

| DATE         | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|--------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| JUL<br>29... | 1140 | 47                                            | 7.1           | 26.0                        | 3.8                                |
| AUG<br>18... | 0955 | 26                                            | 7.6           | 24.5                        | 4.3                                |
| SEP<br>18... | 1520 | 272                                           | 6.8           | 21.0                        | 6.3                                |

| DATE         | TOTAL<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | TOTAL<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | TOTAL<br>SODIUM<br>(NA)<br>(MG/L) | TOTAL<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) |
|--------------|---------------------------------|-------------------------------------------|------------------------------------------------|-----------------------------------|-----------------------------------------------|------------------------------------------|----------------------------------------------|---------------------------------------------------|------------------------------------------------------|
| JUL<br>29... | 2200                            | 330                                       | --                                             | 14                                | 4.4                                           | 36                                       | 15                                           | --                                                | 1.8                                                  |
| AUG<br>18... | 1900                            | 400                                       | 2.7                                            | 19                                | 4.4                                           | 43                                       | 15                                           | 13                                                | 1.5                                                  |
| SEP<br>18... | --                              | --                                        | --                                             | --                                | --                                            | 18                                       | --                                           | --                                                | .26                                                  |

| DATE         | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | TOTAL<br>RESI-<br>DUE<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|--------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|---------------------------------|-------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| JUL<br>29... | .44                                                | .51                                       | --                                                   | --                              | 60                                  | 150                                                        | 40                                           | 39                           | 2.8                                                          | 93000                                            | 4.0                                         |
| AUG<br>18... | 1.0                                                | .62                                       | 16                                                   | 142                             | 41                                  | 175                                                        | --                                           | 25                           | 2.5                                                          | 2300                                             | 3.0                                         |
| SEP<br>18... | .21                                                | .47                                       | --                                                   | --                              | 16                                  | 68                                                         | 220                                          | 580                          | 3.8                                                          | 150000                                           | 8.0                                         |

## APALACHICOLA RIVER BASIN

265

02344180 FLINT RIVER NEAR JONESBORO, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                               |               |                             |                                    |
| 23... | 1020 | 44                                            | 6.4           | 14.5                        | 4.0                                |
| NOV.  |      |                                               |               |                             |                                    |
| 20... | 1130 | 47                                            | 7.1           | 12.5                        | --                                 |
| DEC.  |      |                                               |               |                             |                                    |
| 18... | 1315 | 86                                            | 6.9           | 6.0                         | 9.6                                |
| JAN.  |      |                                               |               |                             |                                    |
| 12... | 1215 | 54                                            | 6.8           | 6.0                         | 9.4                                |
| FEB.  |      |                                               |               |                             |                                    |
| 09... | 0945 | 44                                            | 7.3           | 5.5                         | 8.7                                |
| MAR.  |      |                                               |               |                             |                                    |
| 04... | 0920 | 32                                            | 7.3           | 10.0                        | 6.2                                |
| APR.  |      |                                               |               |                             |                                    |
| 06... | 0855 | 49                                            | 7.1           | 13.0                        | 4.8                                |
| MAY   |      |                                               |               |                             |                                    |
| 05... | 0845 | 30                                            | 7.0           | 14.5                        | 4.0                                |
| JUNE  |      |                                               |               |                             |                                    |
| 08... | 0750 | 34                                            | 7.2           | 18.5                        | 3.6                                |
| JULY  |      |                                               |               |                             |                                    |
| 12... | 0835 | 24                                            | 7.2           | 24.5                        | 3.0                                |
| AUG.  |      |                                               |               |                             |                                    |
| 16... | 0910 | 16                                            | 6.9           | 23.0                        | 2.8                                |
| SEP.  |      |                                               |               |                             |                                    |
| 13... | 1525 | 15                                            | 7.1           | 19.0                        | 3.6                                |

| DATE  | TOTAL<br>IPON<br>(FE)<br>(UG/L) | TOTAL<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | TOTAL<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | TOTAL<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | TOTAL<br>SODIUM<br>(NA)<br>(MG/L) | TOTAL<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | ALKA-<br>LINITY<br>AS<br>CAC03<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(S04)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) |
|-------|---------------------------------|-------------------------------------------|-----------------------------------------|------------------------------------------------|-----------------------------------|-----------------------------------------------|------------------------------------------|----------------------------------------------|---------------------------------------------------|------------------------------------------------------|
| NOV.  |                                 |                                           |                                         |                                                |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 20... | 2200                            | 560                                       | 9.4                                     | 2.2                                            | 22                                | 5.0                                           | 24                                       | 18                                           | 13                                                | .21                                                  |
| DEC.  |                                 |                                           |                                         |                                                |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 18... | 2700                            | 470                                       | 7.4                                     | 1.6                                            | 7.6                               | 3.4                                           | 28                                       | 8.6                                          | 6.5                                               | .47                                                  |
| JAN.  |                                 |                                           |                                         |                                                |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 12... | 1900                            | 920                                       | 9.0                                     | 2.1                                            | 14                                | 3.0                                           | 37                                       | 22                                           | 8.8                                               | .50                                                  |
| FEB.  |                                 |                                           |                                         |                                                |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 09... | 2000                            | 660                                       | 9.4                                     | 2.0                                            | 14                                | 3.7                                           | 41                                       | 15                                           | 9.0                                               | .59                                                  |
| MAR.  |                                 |                                           |                                         |                                                |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 08... | 1920                            | 600                                       | 9.6                                     | 2.1                                            | 16                                | 3.9                                           | 46                                       | --                                           | 11                                                | .66                                                  |
| APR.  |                                 |                                           |                                         |                                                |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 06... | 1900                            | 480                                       | 9.1                                     | 2.1                                            | 15                                | 3.5                                           | 44                                       | 13                                           | 10                                                | 1.2                                                  |
| MAY   |                                 |                                           |                                         |                                                |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 05... | 1900                            | 470                                       | 10                                      | 2.0                                            | 18                                | 4.5                                           | 42                                       | 19                                           | 12                                                | 1.3                                                  |
| JUNE  |                                 |                                           |                                         |                                                |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 08... | 1600                            | 300                                       | 10                                      | 2.2                                            | 15                                | 4.2                                           | 40                                       | 9.0                                          | 12                                                | 1.3                                                  |
| JULY  |                                 |                                           |                                         |                                                |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 12... | 1800                            | 460                                       | 10                                      | 2.0                                            | 15                                | 4.3                                           | 44                                       | --                                           | --                                                | .77                                                  |
| AUG.  |                                 |                                           |                                         |                                                |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 16... | 2400                            | 340                                       | 9.3                                     | 1.8                                            | 13                                | 4.4                                           | 34                                       | 13                                           | 11                                                | 1.0                                                  |
| SEP.  |                                 |                                           |                                         |                                                |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 13... | 1400                            | 260                                       | 10                                      | 2.0                                            | 21                                | 5.9                                           | 42                                       | 3.0                                          | --                                                | 2.8                                                  |

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RAHLE<br>RESIDUE<br>(MG/L) | TOTAL<br>RESI-<br>DUE<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|---------------------------------|-------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| NOV.<br>20... | 1.1                                                | .70                                       | 13                                                   | 160                             | 32                                  | 180                                                        | 40                                           | 27                           | 2.4                                                          | 930000                                           | 7.0                                         |
| DEC.<br>18... | .45                                                | .31                                       | 30                                                   | 118                             | 26                                  | 105                                                        | 60                                           | 50                           | 3.0                                                          | 3900                                             | 6.0                                         |
| JAN.<br>12... | 1.0                                                | .29                                       | 15                                                   | 128                             | 30                                  | 151                                                        | 25                                           | 32                           | 9.0                                                          | 23000                                            | 7.0                                         |
| FEB.<br>09... | 1.1                                                | .38                                       | 11                                                   | 334                             | 31                                  | 150                                                        | 30                                           | 17                           | 2.5                                                          | 9300                                             | 9.0                                         |
| MAR.<br>08... | 1.9                                                | .52                                       | 9                                                    | 126                             | 32                                  | 164                                                        | 20                                           | 17                           | 4.1                                                          | 200                                              | 6.0                                         |
| APR.<br>06... | 1.5                                                | .43                                       | 14                                                   | 126                             | 30                                  | 142                                                        | 30                                           | 24                           | 4.7                                                          | 2300                                             | 5.0                                         |
| MAY<br>05...  | 1.9                                                | 1.0                                       | 17                                                   | 136                             | 32                                  | 167                                                        | 20                                           | 21                           | 9.3                                                          | 23000                                            | 5.0                                         |
| JUNE<br>08... | 1.1                                                | .50                                       | 21                                                   | 142                             | 33                                  | 147                                                        | 15                                           | 22                           | 5.4                                                          | 23000                                            | 5.0                                         |
| JULY<br>12... | 1.5                                                | .56                                       | 15                                                   | 128                             | 34                                  | 164                                                        | 30                                           | 23                           | 4.4                                                          | 2100                                             | 4.0                                         |
| AUG.<br>16... | .87                                                | .55                                       | 31                                                   | 166                             | 29                                  | 139                                                        | 50                                           | 36                           | 5.6                                                          | 93000                                            | 10                                          |
| SEP.<br>13... | 1.0                                                | 1.2                                       | 8                                                    | 142                             | 35                                  | 193                                                        | 25                                           | 8                            | 4.0                                                          | 4300                                             | 7.0                                         |

## APALACHICOLA RIVER BASIN

267

02344190 FLINT RIVER NEAR FAYETTEVILLE, GA.

LOCATION.--Lat 33°29'13", long 84°23'44", Clayton County, 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 mi<sup>2</sup> (79 km<sup>2</sup>).

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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

| DATE         | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|--------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| JUL<br>29... | 1110 | 45                                            | 7.5           | 24.5                        | 5.0                                |
| AUG<br>18... | 1035 | 29                                            | 7.4           | 25.0                        | 2.4                                |
| SEP<br>18... | 1345 | 170                                           | 6.9           | 21.0                        | 4.0                                |

| DATE         | ALKA-<br>LITY<br>AS<br>CaCO <sub>3</sub><br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | TOTAL<br>RESI-<br>DUE<br>(MG/L) |
|--------------|----------------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|---------------------------------|
| JUL<br>29... | 28                                                 | .94                                                  | .07                                                | .86                                       | --                                                   | --                              |
| AUG<br>18... | 59                                                 | 1.5                                                  | 5.4                                                | 1.4                                       | 4                                                    | 162                             |
| SEP<br>18... | 32                                                 | 1.2                                                  | .55                                                | 1.2                                       | 26                                                   | 169                             |

| DATE         | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|--------------|------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| JUL<br>29... | 26                                 | 97                                                         | --                                           | 40                           | 3.1                                                          | 2300                                             | 5.0                                         |
| AUG<br>18... | 35                                 | 234                                                        | 20                                           | 11                           | 1.9                                                          | 430                                              | --                                          |
| SEP<br>18... | 26                                 | 155                                                        | 80                                           | 62                           | 4.5                                                          | 9300                                             | 9.0                                         |

## APALACHICOLA RIVER BASIN

02344190 FLINT RIVER NEAR FAYETTEVILLE, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                               |               |                             |                                    |
| 23... | 1110 | 64                                            | 7.2           | 15.0                        | 3.8                                |
| NOV.  |      |                                               |               |                             |                                    |
| 20... | 1205 | 67                                            | 7.2           | 12.5                        | --                                 |
| DEC.  |      |                                               |               |                             |                                    |
| 18... | 1240 | 202                                           | 6.9           | 6.0                         | 9.2                                |
| JAN.  |      |                                               |               |                             |                                    |
| 12... | 1300 | 95                                            | 7.0           | 6.0                         | 8.4                                |
| FEB.  |      |                                               |               |                             |                                    |
| 09... | 1025 | 62                                            | 7.1           | 6.0                         | 7.2                                |
| MAR.  |      |                                               |               |                             |                                    |
| 08... | 1105 | 55                                            | 7.3           | 10.5                        | 3.6                                |
| APR.  |      |                                               |               |                             |                                    |
| 06... | 0920 | 76                                            | 7.0           | 13.0                        | 3.0                                |
| MAY   |      |                                               |               |                             |                                    |
| 05... | 0915 | 49                                            | 7.1           | 14.0                        | 2.5                                |
| JUNE  |      |                                               |               |                             |                                    |
| 08... | 0810 | 55                                            | 7.1           | 18.0                        | 2.3                                |
| JULY  |      |                                               |               |                             |                                    |
| 12... | 0910 | 46                                            | 7.0           | 24.0                        | 1.5                                |
| AUG.  |      |                                               |               |                             |                                    |
| 16... | 0945 | 59                                            | 7.0           | 23.5                        | 1.8                                |
| SEP.  |      |                                               |               |                             |                                    |
| 13... | 1500 | 19                                            | 7.1           | 20.0                        | 1.6                                |

| DATE  | ALKAL-<br>INITY<br>AS<br>CaCO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | TOTAL<br>RESI-<br>DUE<br>(MG/L) |
|-------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|---------------------------------|
| OCT.  |                                          |                                                      |                                                    |                                           |                                                      |                                 |
| 23... | 45                                       | 1.7                                                  | .90                                                | .99                                       | 7                                                    | 160                             |
| NOV.  |                                          |                                                      |                                                    |                                           |                                                      |                                 |
| 20... | 49                                       | 1.6                                                  | .30                                                | 1.1                                       | 6                                                    | 160                             |
| DEC.  |                                          |                                                      |                                                    |                                           |                                                      |                                 |
| 18... | 27                                       | .80                                                  | .70                                                | .70                                       | 31                                                   | 128                             |
| JAN.  |                                          |                                                      |                                                    |                                           |                                                      |                                 |
| 12... | 47                                       | 1.0                                                  | 2.4                                                | 1.4                                       | 8                                                    | 132                             |
| FEB.  |                                          |                                                      |                                                    |                                           |                                                      |                                 |
| 09... | 51                                       | 1.3                                                  | <3.1                                               | 1.9                                       | 5                                                    | 144                             |
| MAR.  |                                          |                                                      |                                                    |                                           |                                                      |                                 |
| 08... | 61                                       | 1.3                                                  | 3.8                                                | 1.3                                       | 7                                                    | 170                             |
| APR.  |                                          |                                                      |                                                    |                                           |                                                      |                                 |
| 06... | 47                                       | 1.1                                                  | 3.7                                                | 1.2                                       | 9                                                    | 138                             |
| MAY   |                                          |                                                      |                                                    |                                           |                                                      |                                 |
| 05... | 62                                       | 1.4                                                  | 5.8                                                | 1.7                                       | 10                                                   | 160                             |
| JUNE  |                                          |                                                      |                                                    |                                           |                                                      |                                 |
| 08... | 58                                       | 1.0                                                  | 4.2                                                | 1.5                                       | 8                                                    | 166                             |
| JULY  |                                          |                                                      |                                                    |                                           |                                                      |                                 |
| 12... | 63                                       | .89                                                  | 4.7                                                | 1.1                                       | 5                                                    | 170                             |
| AUG.  |                                          |                                                      |                                                    |                                           |                                                      |                                 |
| 16... | 65                                       | 1.2                                                  | 4.2                                                | 2.1                                       | 2                                                    | 197                             |
| SEP.  |                                          |                                                      |                                                    |                                           |                                                      |                                 |
| 13... | 71                                       | 1.5                                                  | 9.0                                                | 2.7                                       | 4                                                    | 182                             |



02344190 FLINT RIVER NEAR FAYETTEVILLE, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPF-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>IDITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------|------------------------------------------------------------|----------------------------------------------|--------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>23... | 33                                 | 216                                                        | 20                                           | 15                             | 2.2                                                          | 930                                              | 5.0                                         |
| NOV.<br>20... | 33                                 | 216                                                        | 10                                           | 11                             | 2.4                                                          | 36                                               | 6.0                                         |
| DEC.<br>18... | 23                                 | 117                                                        | 50                                           | 54                             | 3.7                                                          | 2300                                             | 7.0                                         |
| JAN.<br>12... | 30                                 | 193                                                        | 10                                           | 16                             | 4.4                                                          | <30                                              | 7.0                                         |
| FEB.<br>09... | 32                                 | 195                                                        | 20                                           | 14                             | 3.8                                                          | 91                                               | 9.0                                         |
| MAR.<br>08... | 32                                 | 231                                                        | 15                                           | 11                             | 6.2                                                          | 230                                              | 8.0                                         |
| APR.<br>06... | 30                                 | 172                                                        | 30                                           | 18                             | 4.3                                                          | 36                                               | 9.0                                         |
| MAY<br>05...  | 32                                 | 236                                                        | 20                                           | 12                             | 7.2                                                          | 430                                              | 8.0                                         |
| JUNE<br>08... | 33                                 | 209                                                        | 20                                           | 10                             | 5.2                                                          | 230                                              | 10                                          |
| JULY<br>12... | 34                                 | 249                                                        | 10                                           | 12                             | 3.1                                                          | 91                                               | 7.0                                         |
| AUG.<br>16... | 37                                 | 248                                                        | 20                                           | 9                              | 3.8                                                          | 930                                              | 10                                          |
| SEP.<br>13... | 36                                 | 269                                                        | 15                                           | 6                              | 3.8                                                          | 72                                               | 10                                          |

## APALACHICOLA RIVER BASIN

02344380 FLINT RIVER NEAR INMAN, GA.

LOCATION.--Lat 33°23'08", long 84°23'24", Clayton-Fayette County line, 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 mi<sup>2</sup> (254 km<sup>2</sup>).

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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA. WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

| DATE         | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|--------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| JUL<br>29... | 1015 | 126                                           | 7.3           | 25.0                        | 5.5                                |
| AUG<br>18... | 1200 | 114                                           | 7.4           | 25.0                        | 6.0                                |
| SEP<br>18... | 1300 | --                                            | 7.1           | 20.0                        | 7.0                                |

| DATE         | ALKA-<br>LITY<br>AS<br>CACO <sub>3</sub><br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | TOTAL<br>RESI-<br>DUE<br>(MG/L) |
|--------------|----------------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|---------------------------------|
| JUL<br>29... | 28                                                 | 1.0                                                  | .06                                                | .28                                       | --                                                   | --                              |
| AUG<br>18... | 32                                                 | 1.3                                                  | 1.4                                                | .38                                       | 6                                                    | 112                             |
| SEP<br>18... | 25                                                 | .74                                                  | .12                                                | .48                                       | 55                                                   | 164                             |

| DATE         | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(FC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|--------------|-------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| JUL<br>29... | 25                                  | 106                                                        | 30                                           | 33                           | 1.4                                                          | 230                                              | 4.0                                         |
| AUG<br>18... | 26                                  | 138                                                        | 30                                           | 14                           | .8                                                           | 230                                              | --                                          |
| SEP<br>18... | 20                                  | 102                                                        | 80                                           | 56                           | 2.0                                                          | 43000                                            | 10                                          |

02344380 FLINT RIVER NEAR INMAN, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.<br>23... | 1200 | 143                                           | 7.0           | 14.0                        | 4.1                                |
| NOV.<br>20... | 1245 | 138                                           | 6.9           | 11.0                        | --                                 |
| DEC.<br>18... | 1045 | 1190                                          | 6.9           | 7.5                         | 11.1                               |
| JAN.<br>12... | 1450 | 182                                           | 6.9           | 6.0                         | 11.2                               |
| FEB.<br>09... | 1110 | 164                                           | 7.1           | 5.5                         | 10.6                               |
| MAR.<br>08... | 1145 | 135                                           | 7.1           | 11.0                        | 7.9                                |
| APR.<br>06... | 1000 | 198                                           | 7.0           | 13.5                        | 7.0                                |
| MAY<br>05...  | 0945 | 121                                           | 7.0           | 14.5                        | 6.2                                |
| JUNE<br>08... | 0850 | 124                                           | 7.1           | 18.0                        | 6.4                                |
| JULY<br>12... | 1000 | 106                                           | 7.0           | 23.5                        | 5.3                                |
| AUG.<br>16... | 1045 | 130                                           | 6.8           | 23.0                        | 5.0                                |
| SEP.<br>14... | 0900 | 60                                            | 7.0           | 18.0                        | 4.9                                |

| DATE          | ALKA-<br>LINITY<br>AS<br>CaCO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | TOTAL<br>RESI-<br>DUE<br>(MG/L) |
|---------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|---------------------------------|
| OCT.<br>23... | 28                                       | 9.0                                                  | .08                                                | .16                                       | --                                                   | --                              |
| NOV.<br>20... | 28                                       | .36                                                  | .30                                                | .30                                       | 6                                                    | 74                              |
| DEC.<br>18... | 24                                       | .90                                                  | .13                                                | .35                                       | 13                                                   | 94                              |
| JAN.<br>12... | 25                                       | .90                                                  | .60                                                | .40                                       | --                                                   | --                              |
| FEB.<br>09... | 24                                       | 1.1                                                  | .28                                                | .40                                       | 3                                                    | 95                              |
| MAR.<br>08... | 31                                       | 1.5                                                  | .06                                                | .38                                       | 7                                                    | 110                             |
| APR.<br>06... | 24                                       | 1.0                                                  | .12                                                | .26                                       | 13                                                   | 102                             |
| MAY<br>05...  | 26                                       | 1.8                                                  | .21                                                | .54                                       | 12                                                   | 112                             |
| JUNE<br>08... | 27                                       | 1.4                                                  | .07                                                | .33                                       | 11                                                   | 118                             |
| JULY<br>12... | 28                                       | 1.5                                                  | .06                                                | .34                                       | 6                                                    | 116                             |
| AUG.<br>16... | 19                                       | 1.2                                                  | .06                                                | .50                                       | 34                                                   | 148                             |
| SEP.<br>14... | 31                                       | 2.6                                                  | .21                                                | .87                                       | --                                                   | --                              |

## APALACHICOLA RIVER BASIN

02344380 FLINT RIVER NEAR INMAN, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>IDY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(FC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>23... | 22                                 | 112                                                        | 25                                           | 12                           | .8                                                           | 2300                                             | 4.0                                         |
| NOV.<br>20... | 22                                 | 111                                                        | 30                                           | 12                           | 1.7                                                          | 150                                              | 6.0                                         |
| DEC.<br>18... | 19                                 | 102                                                        | 40                                           | 19                           | 13                                                           | 2300                                             | 3.0                                         |
| JAN.<br>12... | 19                                 | 112                                                        | 20                                           | 14                           | 1.8                                                          | 91                                               | 4.0                                         |
| FEB.<br>09... | 20                                 | 110                                                        | 25                                           | 14                           | 1.2                                                          | 91                                               | 4.0                                         |
| MAR.<br>08... | 24                                 | 127                                                        | 25                                           | 12                           | 2.1                                                          | 36                                               | 4.0                                         |
| APR.<br>06... | 20                                 | 98                                                         | 40                                           | 25                           | 1.3                                                          | 950                                              | 5.0                                         |
| MAY<br>05...  | 22                                 | 114                                                        | 40                                           | 19                           | 3.4                                                          | 930                                              | 5.0                                         |
| JUNE<br>08... | 22                                 | 114                                                        | 30                                           | 16                           | 2.0                                                          | 91                                               | 4.0                                         |
| JULY<br>12... | 24                                 | 130                                                        | 30                                           | 15                           | 1.0                                                          | 430                                              | 4.0                                         |
| AUG.<br>16... | 19                                 | 120                                                        | 75                                           | 36                           | 2.6                                                          | 1500                                             | 9.0                                         |
| SEP.<br>14... | 25                                 | 159                                                        | 50                                           | 13                           | 3.2                                                          | 36                                               | 5.0                                         |

02344400 FLINT RIVER ABOVE GRIFFIN, GA.

LOCATION.--Lat 33°18'33", long 84°23'36", Spalding-Fayette County line, 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 mi<sup>2</sup> (502 km<sup>2</sup>).

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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

| DATE         | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|--------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| JUL<br>28... | 1430 | 255                                           | 7.0           | 26.0                        | 6.0                                |
| AUG<br>18... | 1250 | 154                                           | 7.4           | 25.0                        | 6.3                                |
| SEP<br>18... | 1230 | 154                                           | 7.3           | 20.5                        | 6.8                                |

| DATE         | TOTAL<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | TOTAL<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | TOTAL<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | TOTAL<br>SODIUM<br>(NA)<br>(MG/L) | TOTAL<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) |
|--------------|---------------------------------|-------------------------------------------|-----------------------------------------|------------------------------------------------|-----------------------------------|-----------------------------------------------|------------------------------------------|----------------------------------------------|
| JUL<br>28... | 1800                            | 320                                       | --                                      | --                                             | 8.0                               | 2.4                                           | 22                                       | 11                                           |
| AUG<br>18... | 1600                            | 480                                       | 5.8                                     | 1.8                                            | 11                                | 2.7                                           | 32                                       | --                                           |
| SEP<br>18... | 1880                            | 440                                       | 5.5                                     | --                                             | 13                                | 3.1                                           | 32                                       | 11                                           |

| DATE         | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | TOTAL<br>RESI-<br>DUE<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) |
|--------------|---------------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|---------------------------------|------------------------------------|
| JUL<br>28... | --                                                | .52                                                  | .04                                                | .19                                       | --                                                   | --                              | 22                                 |
| AUG<br>18... | 9.3                                               | .96                                                  | .80                                                | .27                                       | 11                                                   | 110                             | 22                                 |
| SEP<br>18... | 9.5                                               | .88                                                  | .02                                                | .40                                       | 18                                                   | 122                             | 22                                 |

| DATE         | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | CON-<br>FIRMED<br>COLI-<br>FORM<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|--------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|------------------------------------------|---------------------------------------------|
| JUL<br>28... | 90                                                         | 50                                           | 224                          | 1.4                                                          | 930                                              | 4300                                     | 5.0                                         |
| AUG<br>18... | 123                                                        | 50                                           | 18                           | 1.3                                                          | 430                                              | 23000                                    | --                                          |
| SEP<br>18... | 122                                                        | 45                                           | 24                           | 1.1                                                          | 21000                                            | 93000                                    | 4.0                                         |

## APALACHICOLA RIVER BASIN

02344400 FLINT RIVER ABOVE GRIFFIN, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.<br>23... | 1300 | 176                                           | 7.1           | 14.0                        | 4.0                                |
| NOV.<br>20... | 1325 | 144                                           | 7.0           | 11.0                        | --                                 |
| DEC.<br>18... | 1015 | 388                                           | 6.9           | 8.0                         | 10.6                               |
| JAN.<br>14... | 1400 | 306                                           | 7.1           | 4.0                         | 11.3                               |
| FEB.<br>09... | 1145 | 237                                           | 7.0           | 6.0                         | 11.4                               |
| MAR.<br>08... | 1215 | 144                                           | 7.2           | 12.0                        | 8.3                                |
| APR.<br>06... | 1030 | 280                                           | 7.0           | 13.5                        | 7.4                                |
| MAY<br>05...  | 1015 | 104                                           | 7.0           | 15.0                        | 6.2                                |
| JUNE<br>08... | 0920 | 122                                           | 7.2           | 17.5                        | 6.5                                |
| JULY<br>12... | 1030 | 120                                           | 7.0           | 23.5                        | 5.7                                |
| AUG.<br>16... | 1120 | 127                                           | 7.0           | 24.0                        | 5.4                                |
| SEP.<br>14... | 0935 | 77                                            | 7.2           | 17.5                        | 6.2                                |

| DATE          | TOTAL<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | TOTAL<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | TOTAL<br>MAG-<br>NE-<br>SIUM<br>(MG) | TOTAL<br>SODIUM<br>(NA)<br>(MG/L) | TOTAL<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) |
|---------------|---------------------------------|-------------------------------------------|-----------------------------------------|--------------------------------------|-----------------------------------|-----------------------------------------------|------------------------------------------|----------------------------------------------|
| OCT.<br>23... | 1500                            | 200                                       | 5.0                                     | 1.6                                  | 9.6                               | 2.9                                           | 25                                       | 8.3                                          |
| NOV.<br>20... | 1550                            | 180                                       | 5.7                                     | 1.7                                  | 10                                | 3.1                                           | 54                                       | 12                                           |
| DEC.<br>18... | 1800                            | 250                                       | 5.1                                     | 1.6                                  | 8.5                               | 2.8                                           | 24                                       | 6.0                                          |
| JAN.<br>14... | 1100                            | 140                                       | 5.4                                     | 1.6                                  | 9.4                               | 2.2                                           | 23                                       | 11                                           |
| FEB.<br>09... | --                              | --                                        | --                                      | --                                   | --                                | --                                            | 22                                       | --                                           |
| MAR.<br>08... | 1260                            | 230                                       | 6.9                                     | 1.8                                  | 14                                | 2.7                                           | 30                                       | 9.0                                          |
| APR.<br>06... | 1700                            | 260                                       | 5.2                                     | 1.5                                  | 8.9                               | 2.1                                           | 23                                       | 7.0                                          |
| MAY<br>05...  | 1900                            | 270                                       | 6.2                                     | 1.6                                  | 10                                | 2.4                                           | 25                                       | 8.0                                          |
| JUNE<br>08... | 1000                            | 210                                       | 4.6                                     | 1.6                                  | 11                                | 2.4                                           | 26                                       | 5.0                                          |
| JULY<br>12... | 1250                            | 230                                       | 6.1                                     | 1.6                                  | 11                                | 2.4                                           | 25                                       | --                                           |
| AUG.<br>16... | 1100                            | 210                                       | 9.5                                     | 2.1                                  | 15                                | 3.2                                           | 23                                       | 14                                           |
| SEP.<br>14... | 1300                            | 200                                       | 6.5                                     | 1.5                                  | 16                                | 3.6                                           | 27                                       | 17                                           |

02344400 FLINT RIVER ABOVE GRIFFIN, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | TOTAL<br>RESI-<br>DUE<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) |
|-------|---------------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|---------------------------------|-------------------------------------|
| OCT.  |                                                   |                                                      |                                                    |                                           |                                                      |                                 |                                     |
| 23... | 8.3                                               | .65                                                  | .03                                                | .08                                       | 6                                                    | 90                              | 21                                  |
| NOV.  |                                                   |                                                      |                                                    |                                           |                                                      |                                 |                                     |
| 20... | 9.0                                               | .29                                                  | .07                                                | .20                                       | 6                                                    | 96                              | 21                                  |
| DEC.  |                                                   |                                                      |                                                    |                                           |                                                      |                                 |                                     |
| 18... | 7.5                                               | .80                                                  | .07                                                | .30                                       | 14                                                   | 90                              | 20                                  |
| JAN.  |                                                   |                                                      |                                                    |                                           |                                                      |                                 |                                     |
| 14... | 8.0                                               | .80                                                  | .23                                                | .25                                       | 7                                                    | 84                              | 18                                  |
| FEB.  |                                                   |                                                      |                                                    |                                           |                                                      |                                 |                                     |
| 09... | --                                                | .96                                                  | .11                                                | .28                                       | --                                                   | --                              | 19                                  |
| MAR.  |                                                   |                                                      |                                                    |                                           |                                                      |                                 |                                     |
| 08... | 10                                                | 1.3                                                  | <.02                                               | .29                                       | 14                                                   | 110                             | 22                                  |
| APR.  |                                                   |                                                      |                                                    |                                           |                                                      |                                 |                                     |
| 06... | 7.0                                               | .80                                                  | .13                                                | .19                                       | 12                                                   | 96                              | 18                                  |
| MAY   |                                                   |                                                      |                                                    |                                           |                                                      |                                 |                                     |
| 05... | 7.2                                               | 1.3                                                  | .05                                                | .32                                       | 11                                                   | 96                              | 22                                  |
| JUNE  |                                                   |                                                      |                                                    |                                           |                                                      |                                 |                                     |
| 08... | 8.3                                               | 1.1                                                  | .02                                                | .23                                       | 15                                                   | 112                             | 22                                  |
| JULY  |                                                   |                                                      |                                                    |                                           |                                                      |                                 |                                     |
| 12... | --                                                | 1.0                                                  | .05                                                | .23                                       | 6                                                    | 104                             | 22                                  |
| AUG.  |                                                   |                                                      |                                                    |                                           |                                                      |                                 |                                     |
| 16... | 13                                                | 1.3                                                  | <.02                                               | .49                                       | 9                                                    | 130                             | 24                                  |
| SEP.  |                                                   |                                                      |                                                    |                                           |                                                      |                                 |                                     |
| 14... | 13                                                | 1.6                                                  | <.02                                               | .62                                       | 2                                                    | 126                             | 23                                  |

| DATE  | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | CON-<br>FIRMED<br>COLI-<br>FORM<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|-------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|------------------------------------------|---------------------------------------------|
| OCT.  |                                                            |                                              |                              |                                                              |                                                  |                                          |                                             |
| 23... | 97                                                         | 40                                           | 14                           | .8                                                           | 930                                              | 930                                      | 4.0                                         |
| NOV.  |                                                            |                                              |                              |                                                              |                                                  |                                          |                                             |
| 20... | 100                                                        | 40                                           | 14                           | .5                                                           | 230                                              | 4300                                     | 4.0                                         |
| DEC.  |                                                            |                                              |                              |                                                              |                                                  |                                          |                                             |
| 18... | 94                                                         | 40                                           | 19                           | 1.0                                                          | 2300                                             | 23000                                    | 4.0                                         |
| JAN.  |                                                            |                                              |                              |                                                              |                                                  |                                          |                                             |
| 14... | 97                                                         | 30                                           | 12                           | 1.2                                                          | 36                                               | --                                       | 4.0                                         |
| FEB.  |                                                            |                                              |                              |                                                              |                                                  |                                          |                                             |
| 09... | 99                                                         | 30                                           | 13                           | 1.0                                                          | 91                                               | --                                       | 4.0                                         |
| MAR.  |                                                            |                                              |                              |                                                              |                                                  |                                          |                                             |
| 08... | 128                                                        | 25                                           | 13                           | .8                                                           | 230                                              | 1500                                     | 5.0                                         |
| APR.  |                                                            |                                              |                              |                                                              |                                                  |                                          |                                             |
| 06... | 88                                                         | 60                                           | 25                           | 1.4                                                          | 230                                              | 4300                                     | 9.0                                         |
| MAY   |                                                            |                                              |                              |                                                              |                                                  |                                          |                                             |
| 05... | 99                                                         | 40                                           | 21                           | 1.0                                                          | 230                                              | 2300                                     | 5.0                                         |
| JUNE  |                                                            |                                              |                              |                                                              |                                                  |                                          |                                             |
| 08... | 103                                                        | 30                                           | 17                           | 1.6                                                          | 91                                               | 2300                                     | 5.0                                         |
| JULY  |                                                            |                                              |                              |                                                              |                                                  |                                          |                                             |
| 12... | 108                                                        | 40                                           | 16                           | .9                                                           | 91                                               | 430                                      | 3.0                                         |
| AUG.  |                                                            |                                              |                              |                                                              |                                                  |                                          |                                             |
| 16... | 135                                                        | 50                                           | 17                           | 1.2                                                          | 4300                                             | --                                       | 8.0                                         |
| SEP.  |                                                            |                                              |                              |                                                              |                                                  |                                          |                                             |
| 14... | 134                                                        | 60                                           | 17                           | 1.0                                                          | 64                                               | 5115                                     | 5.0                                         |



## 02344500 FLINT RIVER NEAR GRIFFIN, GA.

LOCATION.--Lat 33°14'39", long 84°25'45", Spalding County, 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 mi<sup>2</sup> (704 km<sup>2</sup>).

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, which are fair. Some diurnal fluctuation at low flow. City of Griffin diverted an average of about 8 ft<sup>3</sup>/s (0.23 m<sup>3</sup>/s) for municipal supply at pumping plant 6 mi (9.7 km) above station. An average of about 1 ft<sup>3</sup>/s (0.03 m<sup>3</sup>/s) of the diversion was discharged as sewage effluent into tributaries of Towaliga River, and an average of about 3 ft<sup>3</sup>/s (0.08 m<sup>3</sup>/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.--39 years, 357 ft<sup>3</sup>/s (10.1 m<sup>3</sup>/s), 17.82 in/yr (452.6 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,200 ft<sup>3</sup>/s (374 m<sup>3</sup>/s) Nov. 27, 1948, gage height, 18.0 ft (5.49 m); minimum daily, 2.5 ft<sup>3</sup>/s (0.071 m<sup>3</sup>/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 ft<sup>3</sup>/s (433 m<sup>3</sup>/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft<sup>3</sup>/s (56.6 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Jan. 28 | 1400 | 3370 95.4                                             | 11.71 3.569             | May 31 | 0200 | 2590 73.3                                             | 10.95 3.338             |
| Mar. 17 | 1900 | *9240 262                                             | 15.02 4.578             |        |      |                                                       |                         |

Minimum daily discharge, 68 ft<sup>3</sup>/s (1.93 m<sup>3</sup>/s) Sept. 19, 20.

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

| DAY         | OCT   | NOV    | DEC      | JAN      | FEB     | MAR       | APR      | MAY   | JUN  | JUL  | AUG  | SEP  |
|-------------|-------|--------|----------|----------|---------|-----------|----------|-------|------|------|------|------|
| 1           | 129   | 173    | 340      | 950      | 500     | 239       | 1090     | 308   | 1270 | 180  | 210  | 98   |
| 2           | 137   | 169    | 409      | 1000     | 527     | 225       | 1280     | 323   | 464  | 160  | 139  | 104  |
| 3           | 144   | 166    | 600      | 1090     | 467     | 217       | 1300     | 334   | 304  | 150  | 115  | 96   |
| 4           | 151   | 163    | 400      | 671      | 415     | 215       | 720      | 256   | 402  | 160  | 105  | 85   |
| 5           | 168   | 165    | 300      | 450      | 352     | 211       | 431      | 194   | 428  | 200  | 95   | 96   |
| 6           | 263   | 165    | 270      | 442      | 325     | 210       | 360      | 176   | 301  | 350  | 100  | 98   |
| 7           | 331   | 177    | 250      | 385      | 314     | 213       | 333      | 174   | 237  | 600  | 120  | 115  |
| 8           | 680   | 224    | 240      | 470      | 308     | 210       | 310      | 197   | 196  | 700  | 160  | 93   |
| 9           | 862   | 251    | 260      | 427      | 299     | 254       | 291      | 241   | 178  | 500  | 130  | 88   |
| 10          | 626   | 291    | 240      | 399      | 273     | 307       | 269      | 235   | 186  | 400  | 112  | 107  |
| 11          | 588   | 252    | 230      | 338      | 261     | 315       | 255      | 225   | 198  | 300  | 96   | 115  |
| 12          | 352   | 230    | 220      | 331      | 258     | 317       | 244      | 207   | 184  | 250  | 92   | 123  |
| 13          | 229   | 314    | 210      | 323      | 252     | 1070      | 236      | 197   | 204  | 210  | 89   | 114  |
| 14          | 191   | 425    | 205      | 344      | 249     | 1450      | 228      | 226   | 192  | 180  | 84   | 84   |
| 15          | 175   | 915    | 200      | 342      | 248     | 2230      | 222      | 772   | 154  | 160  | 98   | 81   |
| 16          | 169   | 841    | 250      | 400      | 246     | 7100      | 220      | 1000  | 138  | 180  | 132  | 80   |
| 17          | 271   | 293    | 350      | 361      | 238     | 8570      | 212      | 1210  | 136  | 200  | 165  | 82   |
| 18          | 489   | 256    | 500      | 287      | 235     | 6040      | 208      | 1050  | 131  | 180  | 144  | 74   |
| 19          | 548   | 232    | 400      | 256      | 255     | 2110      | 198      | 374   | 139  | 170  | 116  | 68   |
| 20          | 819   | 220    | 300      | 239      | 275     | 1030      | 188      | 247   | 264  | 165  | 97   | 68   |
| 21          | 647   | 234    | 260      | 242      | 300     | 771       | 183      | 208   | 270  | 160  | 87   | 75   |
| 22          | 303   | 253    | 240      | 241      | 497     | 745       | 179      | 192   | 217  | 155  | 80   | 112  |
| 23          | 230   | 304    | 230      | 239      | 607     | 731       | 172      | 188   | 192  | 150  | 79   | 108  |
| 24          | 205   | 328    | 220      | 236      | 575     | 720       | 171      | 192   | 152  | 145  | 77   | 92   |
| 25          | 193   | 303    | 250      | 235      | 496     | 485       | 183      | 187   | 140  | 140  | 82   | 77   |
| 26          | 192   | 305    | 350      | 668      | 319     | 399       | 203      | 174   | 140  | 126  | 83   | 75   |
| 27          | 190   | 264    | 500      | 1440     | 277     | 401       | 208      | 173   | 140  | 125  | 81   | 80   |
| 28          | 184   | 246    | 400      | 2920     | 256     | 432       | 210      | 282   | 134  | 137  | 91   | 81   |
| 29          | 183   | 237    | 330      | 2050     | 246     | 422       | 177      | 679   | 130  | 152  | 109  | 90   |
| 30          | 184   | 237    | 274      | 961      | ---     | 433       | 182      | 1920  | 150  | 458  | 130  | 100  |
| 31          | 179   | ---    | 501      | 551      | ---     | 579       | ---      | 2340  | ---  | 661  | 115  | ---  |
| TOTAL       | 10012 | 8633   | 9729     | 19288    | 9870    | 38651     | 10463    | 14481 | 7371 | 7804 | 3413 | 2759 |
| MEAN        | 323   | 288    | 314      | 622      | 340     | 1247      | 349      | 467   | 246  | 252  | 110  | 92.0 |
| MAX         | 862   | 915    | 600      | 2920     | 607     | 8570      | 1300     | 2340  | 1270 | 700  | 210  | 123  |
| MIN         | 129   | 163    | 200      | 235      | 235     | 210       | 171      | 173   | 130  | 125  | 77   | 68   |
| CFSM        | 1.19  | 1.06   | 1.15     | 2.29     | 1.25    | 4.58      | 1.28     | 1.72  | .90  | .93  | .40  | .34  |
| IN.         | 1.37  | 1.18   | 1.33     | 2.64     | 1.35    | 5.29      | 1.43     | 1.98  | 1.01 | 1.07 | .47  | .38  |
| CAL YR 1975 | TOTAL | 213688 | MEAN 585 | MAX 6130 | MIN 115 | CFSM 2.15 | IN 29.22 |       |      |      |      |      |
| WTR YR 1976 | TOTAL | 142474 | MEAN 389 | MAX 8570 | MIN 68  | CFSM 1.43 | IN 19.49 |       |      |      |      |      |

NOTE.--No gage-height record Dec. 3-29, June 28 to July 26, Aug. 4-9.

## APALACHICOLA RIVER BASIN

277

02344700 LINE CREEK NEAR SENOIA, GA.

LOCATION.--Lat 33°19'10", long°84 31'25", Coweta County, 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 mi<sup>2</sup> (262 km<sup>2</sup>), 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 except those for period of doubtful gage-height record, which are fair.

AVERAGE DISCHARGE.--12 years, 141 ft<sup>3</sup>/s (3.99 m<sup>3</sup>/s), 18.96 in/yr (481.6 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,260 ft<sup>3</sup>/s (177 m<sup>3</sup>/s) Mar. 16, 1976, gage height, 13.38 ft (4.078 m); minimum, 4.7 ft<sup>3</sup>/s (0.133 m<sup>3</sup>/s) Oct. 7, 1970, gage height, 1.23 ft (0.375 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft<sup>3</sup>/s (28.3 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Jan. 27 | 1400 | 2590 73.3                                             | 10.79 3.289             | Mar. 16 | 1800 | *6260 177                                             | 13.38 4.078             |

Minimum daily discharge, 14 ft<sup>3</sup>/s (0.396 m<sup>3</sup>/s) Aug. 27, Sept. 20.

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

| DAY         | OCT         | NOV      | DEC      | JAN    | FEB       | MAR      | APR  | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------------|-------------|----------|----------|--------|-----------|----------|------|------|------|------|------|------|
| 1           | 37          | 69       | 156      | 423    | 194       | 131      | 484  | 141  | 115  | 70   | 26   | 32   |
| 2           | 43          | 66       | 272      | 427    | 211       | 108      | 393  | 98   | 134  | 61   | 24   | 64   |
| 3           | 53          | 66       | 230      | 245    | 187       | 96       | 238  | 76   | 135  | 49   | 21   | 68   |
| 4           | 47          | 69       | 151      | 222    | 153       | 93       | 187  | 71   | 113  | 50   | 19   | 43   |
| 5           | 58          | 67       | 129      | 190    | 141       | 89       | 161  | 69   | 91   | 60   | 20   | 33   |
| 6           | 177         | 66       | 117      | 149    | 136       | 87       | 145  | 68   | 74   | 150  | 23   | 30   |
| 7           | 515         | 75       | 110      | 144    | 137       | 88       | 137  | 98   | 66   | 252  | 28   | 28   |
| 8           | 575         | 97       | 113      | 178    | 128       | 83       | 128  | 95   | 60   | 254  | 35   | 27   |
| 9           | 398         | 107      | 114      | 164    | 119       | 106      | 117  | 82   | 64   | 130  | 30   | 26   |
| 10          | 249         | 93       | 107      | 134    | 113       | 132      | 106  | 79   | 86   | 84   | 25   | 29   |
| 11          | 130         | 87       | 99       | 124    | 109       | 109      | 102  | 86   | 70   | 70   | 21   | 23   |
| 12          | 98          | 126      | 91       | 139    | 108       | 100      | 99   | 83   | 57   | 57   | 19   | 23   |
| 13          | 83          | 442      | 86       | 140    | 107       | 290      | 94   | 129  | 52   | 50   | 18   | 19   |
| 14          | 74          | 771      | 85       | 145    | 105       | 636      | 93   | 400  | 50   | 44   | 19   | 17   |
| 15          | 68          | 352      | 84       | 171    | 102       | 506      | 93   | 768  | 48   | 40   | 19   | 18   |
| 16          | 64          | 179      | 93       | 142    | 101       | 4070     | 88   | 387  | 46   | 42   | 21   | 18   |
| 17          | 127         | 139      | 134      | 129    | 100       | 2850     | 83   | 140  | 46   | 63   | 40   | 17   |
| 18          | 520         | 122      | 178      | 116    | 101       | 829      | 78   | 105  | 44   | 50   | 30   | 16   |
| 19          | 548         | 109      | 154      | 105    | 148       | 502      | 75   | 88   | 58   | 46   | 25   | 15   |
| 20          | 236         | 102      | 119      | 99     | 218       | 388      | 71   | 78   | 93   | 41   | 20   | 14   |
| 21          | 144         | 126      | 108      | 102    | 227       | 370      | 69   | 70   | 144  | 37   | 18   | 25   |
| 22          | 121         | 145      | 102      | 104    | 209       | 414      | 68   | 69   | 112  | 34   | 17   | 41   |
| 23          | 107         | 127      | 95       | 100    | 230       | 316      | 64   | 72   | 69   | 32   | 16   | 34   |
| 24          | 97          | 135      | 91       | 97     | 240       | 220      | 60   | 73   | 57   | 30   | 15   | 27   |
| 25          | 89          | 131      | 91       | 97     | 156       | 168      | 80   | 65   | 56   | 29   | 16   | 23   |
| 26          | 84          | 113      | 148      | 184    | 105       | 137      | 82   | 63   | 64   | 25   | 15   | 21   |
| 27          | 81          | 106      | 173      | 1730   | 183       | 147      | 66   | 112  | 52   | 25   | 14   | 21   |
| 28          | 80          | 109      | 132      | 1030   | 152       | 201      | 60   | 258  | 46   | 25   | 16   | 22   |
| 29          | 78          | 105      | 112      | 458    | 135       | 157      | 61   | 376  | 44   | 29   | 17   | 25   |
| 30          | 76          | 95       | 109      | 280    | ---       | 135      | 119  | 191  | 48   | 31   | 28   | 29   |
| 31          | 72          | ---      | 200      | 217    | ---       | 261      | ---  | 112  | ---  | 27   | 44   | ---  |
| TOTAL       | 5129        | 4396     | 3983     | 7985   | 4355      | 13819    | 3701 | 4602 | 2194 | 1987 | 699  | 828  |
| MEAN        | 165         | 147      | 128      | 258    | 150       | 446      | 123  | 148  | 73.1 | 64.1 | 22.5 | 27.6 |
| MAX         | 575         | 771      | 272      | 1730   | 240       | 4070     | 484  | 768  | 144  | 254  | 44   | 68   |
| MIN         | 37          | 66       | 84       | 97     | 100       | 83       | 60   | 63   | 44   | 25   | 14   | 14   |
| CFSM        | 1.63        | 1.46     | 1.27     | 2.55   | 1.49      | 4.42     | 1.22 | 1.47 | .72  | .63  | .22  | .27  |
| IN.         | 1.89        | 1.62     | 1.47     | 2.94   | 1.60      | 5.09     | 1.36 | 1.69 | .81  | .73  | .26  | .30  |
| CAL YR 1975 | TOTAL 75947 | MEAN 208 | MAX 1850 | MIN 27 | CFSM 2.06 | IN 27.97 |      |      |      |      |      |      |
| WTR YR 1976 | TOTAL 53678 | MEAN 147 | MAX 4070 | MIN 14 | CFSM 1.46 | IN 19.77 |      |      |      |      |      |      |

NOTE.--Doubtful gage-height record Aug. 4 to Sept. 8.

## APALACHICOLA RIVER BASIN

02344870 FLINT RIVER NEAR CONCORD, GA.

LOCATION.--Lat 33°04'03", long 84°31'30", Pike-Meriwether County line, 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 mi<sup>2</sup> (2,060 km<sup>2</sup>), approximately.

PERIOD OF RECORD.--August 1976 to September 1976.

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|---------------|-----------------------------|------------------------------------|
| AUG.<br>16... | 1300 | 7.3           | 26.0                        | 5.1                                |
| SEP.<br>14... | 1100 | 7.3           | 19.5                        | 7.0                                |

| DATE          | ALKA-<br>LITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) |
|---------------|----------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| AUG.<br>16... | 25                                     | .56                                                  | .04                                                | .09                                       | 19                                 |
| SEP.<br>14... | 26                                     | .72                                                  | .10                                                | .21                                       | 20                                 |

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| AUG.<br>16... | 91                                                         | 25                                           | 8                            | 1.9                                                          | 150                                              | 7.0                                         |
| SEP.<br>14... | 94                                                         | 40                                           | 9                            | .3                                                           | <30                                              | 5.0                                         |

02346045 FLINT RIVER NEAR RALEIGH, GA.

LOCATION.--Lat 32°56'13", long 84°31'22", Meriwether-Upson County line, 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 September 1976.

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|---------------|-----------------------------|------------------------------------|
| AUG.<br>16... | 1345 | 7.6           | 23.5                        | 7.6                                |
| SEP.<br>14... | 1200 | 7.5           | 19.5                        | 7.9                                |

| DATE          | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) |
|---------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| AUG.<br>16... | 20                                       | .32                                                  | <.02                                               | .08                                       | 16                                 |
| SEP.<br>14... | 28                                       | .42                                                  | <.02                                               | .10                                       | 18                                 |

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| AUG.<br>16... | 68                                                         | 30                                           | 12                           | .8                                                           | 750                                              | 8.0                                         |
| SEP.<br>14... | 86                                                         | 40                                           | 6                            | 9.0                                                          | 30                                               | 6.0                                         |

## 02346180 FLINT RIVER NEAR THOMASTON, GA.

LOCATION.--Lat 32°50'20", long 84°25'27", Upson County, 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 mi<sup>2</sup> (3,160 km<sup>2</sup>), 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 good.

AVERAGE DISCHARGE.--10 years, 1,834 ft<sup>3</sup>/s (51.9 m<sup>3</sup>/s), 20.41 in/yr (518.4 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,400 ft<sup>3</sup>/s (974 m<sup>3</sup>/s) Mar. 3, 1971, gage height, 18.4 ft (5.61 m), from floodmarks; minimum daily, 110 ft<sup>3</sup>/s (3.12 m<sup>3</sup>/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, 22,200 ft<sup>3</sup>/s (629 m<sup>3</sup>/s) Mar. 18, gage height, 15.99 ft (4.874 m); minimum, 309 ft<sup>3</sup>/s (8.75 m<sup>3</sup>/s) Sept. 20, 21, gage height, 7.01 ft (2.137 m).

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

| DAY         | OCT   | NOV    | DEC   | JAN   | FEB   | MAR    | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 1           | 800   | 900    | 1340  | 3090  | 2300  | 1360   | 6070  | 8400  | 3370  | 811   | 1010  | 536   |
| 2           | 863   | 877    | 1870  | 2510  | 2350  | 1320   | 6490  | 1300  | 2590  | 912   | 624   | 558   |
| 3           | 736   | 861    | 1980  | 3080  | 2190  | 1270   | 4440  | 2000  | 1780  | 792   | 501   | 610   |
| 4           | 736   | 857    | 1970  | 2670  | 1960  | 1230   | 3400  | 1500  | 2460  | 746   | 448   | 599   |
| 5           | 854   | 859    | 1700  | 2120  | 1490  | 1220   | 2450  | 1050  | 3120  | 842   | 412   | 600   |
| 6           | 1420  | 864    | 1430  | 1560  | 1630  | 1200   | 1990  | 885   | 2120  | 1130  | 387   | 629   |
| 7           | 2090  | 890    | 1270  | 1700  | 1540  | 1190   | 1790  | 966   | 1500  | 2940  | 426   | 620   |
| 8           | 3070  | 1080   | 1210  | 2270  | 1480  | 1180   | 1600  | 1050  | 1220  | 2850  | 666   | 579   |
| 9           | 3500  | 1230   | 1210  | 2140  | 1420  | 1360   | 1460  | 1190  | 1060  | 2580  | 635   | 532   |
| 10          | 2910  | 1220   | 1200  | 1710  | 1360  | 1660   | 1350  | 1170  | 1050  | 2040  | 499   | 538   |
| 11          | 2240  | 1260   | 1160  | 1650  | 1330  | 1600   | 1280  | 1060  | 1140  | 1410  | 430   | 486   |
| 12          | 1690  | 1190   | 1110  | 1640  | 1260  | 1450   | 1230  | 1030  | 1050  | 971   | 397   | 475   |
| 13          | 1280  | 1430   | 1070  | 1630  | 1290  | 4100   | 1180  | 1010  | 961   | 805   | 396   | 445   |
| 14          | 1060  | 1930   | 1040  | 1620  | 1270  | 6650   | 1150  | 1230  | 909   | 706   | 392   | 438   |
| 15          | 960   | 2550   | 1030  | 1650  | 1300  | 5710   | 1140  | 4100  | 872   | 648   | 384   | 400   |
| 16          | 908   | 2610   | 1090  | 1650  | 1280  | 8890   | 1120  | 4570  | 787   | 603   | 564   | 369   |
| 17          | 1420  | 1950   | 1340  | 1610  | 1260  | 17000  | 1090  | 3830  | 738   | 616   | 1350  | 360   |
| 18          | 2530  | 1360   | 2000  | 1480  | 1220  | 21800  | 1050  | 3180  | 711   | 640   | 1200  | 351   |
| 19          | 2940  | 1170   | 1990  | 1330  | 1300  | 19000  | 1010  | 2220  | 1160  | 628   | 700   | 340   |
| 20          | 2920  | 1110   | 1570  | 1250  | 1400  | 12500  | 967   | 1420  | 1570  | 595   | 533   | 322   |
| 21          | 2430  | 1140   | 1560  | 1230  | 2000  | 5270   | 937   | 1160  | 1470  | 581   | 453   | 315   |
| 22          | 1780  | 1210   | 1350  | 1240  | 3000  | 3640   | 933   | 1050  | 1310  | 580   | 414   | 341   |
| 23          | 1300  | 1290   | 1240  | 1220  | 2500  | 3090   | 913   | 1060  | 1140  | 576   | 398   | 462   |
| 24          | 1140  | 1360   | 1180  | 1200  | 2100  | 2720   | 878   | 1090  | 945   | 578   | 381   | 468   |
| 25          | 1050  | 1370   | 1160  | 1190  | 1800  | 2330   | 953   | 1080  | 820   | 592   | 364   | 409   |
| 26          | 1010  | 1290   | 1440  | 1920  | 1600  | 2000   | 1080  | 1010  | 761   | 547   | 366   | 368   |
| 27          | 999   | 1250   | 1900  | 4360  | 1500  | 1930   | 1070  | 972   | 778   | 559   | 375   | 363   |
| 28          | 991   | 1190   | 1480  | 5190  | 1470  | 2200   | 992   | 1280  | 741   | 562   | 386   | 474   |
| 29          | 984   | 1150   | 1610  | 6290  | 1430  | 2100   | 921   | 2020  | 686   | 542   | 433   | 550   |
| 30          | 961   | 1110   | 1470  | 5720  | ---   | 1990   | 944   | 2550  | 697   | 545   | 487   | 539   |
| 31          | 930   | ---    | 1930  | 3410  | ---   | 3520   | ---   | 3040  | ---   | 889   | 488   | ---   |
| TOTAL       | 48502 | 38558  | 44900 | 71330 | 48030 | 142480 | 51878 | 59473 | 39516 | 29816 | 16499 | 14076 |
| MEAN        | 1565  | 1285   | 1448  | 2301  | 1656  | 4596   | 1729  | 1918  | 1317  | 962   | 532   | 469   |
| MAX         | 3500  | 2610   | 2000  | 6290  | 3000  | 21800  | 6490  | 8400  | 3370  | 2940  | 1350  | 629   |
| MIN         | 736   | 857    | 1030  | 1190  | 1220  | 1180   | 878   | 885   | 686   | 542   | 364   | 315   |
| CFSM        | 1.28  | 1.05   | 1.19  | 1.89  | 1.36  | 3.77   | 1.42  | 1.57  | 1.08  | .79   | .44   | .38   |
| IN.         | 1.48  | 1.18   | 1.37  | 2.17  | 1.46  | 4.34   | 1.58  | 1.81  | 1.20  | .91   | .50   | .43   |
| CAL YR 1975 | TOTAL | 991887 | MEAN  | 2717  | MAX   | 23400  | MIN   | 595   | CFSM  | 2.23  | IN    | 30.24 |
| WTR YR 1976 | TOTAL | 605058 | MEAN  | 1653  | MAX   | 21800  | MIN   | 315   | CFSM  | 1.35  | IN    | 18.45 |

## 02347500 FLINT RIVER NEAR CULLODEN, GA.

LOCATION.--Lat 32°43'17", long 84°13'57", Upson County, 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 mi<sup>2</sup> (4,790 km<sup>2</sup>), 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.--53 years (1911-22, 1928-31, 1937-76), 2,430 ft<sup>3</sup>/s (68.8 m<sup>3</sup>/s), 17.84 in/yr (453.1 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92,000 ft<sup>3</sup>/s (2,610 m<sup>3</sup>/s) Mar. 15, 1929, gage height, 38.4 ft (11.70 m), from graph based on gage readings; minimum observed, 92 ft<sup>3</sup>/s (2.61 m<sup>3</sup>/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 ft<sup>3</sup>/s (312 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Jan. 27 | 1700 | 12900 365                                             | 14.57 4.441             | Mar. 18 | 1800 | *23100 654                                            | 20.86 6.358             |

Minimum discharge, 405 ft<sup>3</sup>/s (11.5 m<sup>3</sup>/s) Sept. 21.

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

| DAY         | OCT   | NOV     | DEC   | JAN    | FEB   | MAR    | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|---------|-------|--------|-------|--------|-------|-------|-------|-------|-------|-------|
| 1           | 896   | 1110    | 1590  | 4860   | 3580  | 1790   | 9690  | 2720  | 3970  | 1670  | 1110  | 736   |
| 2           | 1830  | 1080    | 2330  | 4360   | 3490  | 1730   | 9470  | 3030  | 3830  | 1330  | 869   | 696   |
| 3           | 1300  | 1050    | 2420  | 4060   | 3290  | 1670   | 6670  | 2320  | 2820  | 1150  | 671   | 701   |
| 4           | 1070  | 1040    | 2330  | 3700   | 2890  | 1600   | 5170  | 1820  | 3450  | 1150  | 597   | 706   |
| 5           | 1130  | 1040    | 2170  | 3040   | 2590  | 1560   | 3900  | 1590  | 5170  | 1500  | 542   | 703   |
| 6           | 1630  | 1040    | 1840  | 2480   | 2360  | 1530   | 3160  | 1400  | 3410  | 2480  | 509   | 762   |
| 7           | 2440  | 1050    | 1580  | 2360   | 2250  | 1530   | 2930  | 1330  | 2230  | 4090  | 628   | 832   |
| 8           | 4320  | 1150    | 1500  | 3810   | 2120  | 1500   | 2710  | 1530  | 1770  | 3970  | 749   | 860   |
| 9           | 4590  | 1390    | 1470  | 3540   | 1950  | 1770   | 2490  | 1640  | 1540  | 3310  | 835   | 741   |
| 10          | 3870  | 1410    | 1460  | 2860   | 1870  | 2380   | 2300  | 1620  | 1440  | 2670  | 685   | 716   |
| 11          | 3020  | 1470    | 1420  | 2450   | 1820  | 2170   | 2070  | 1470  | 1480  | 2000  | 589   | 668   |
| 12          | 2290  | 1440    | 1360  | 2300   | 1780  | 1930   | 1960  | 1340  | 1400  | 1410  | 526   | 598   |
| 13          | 1800  | 1580    | 1310  | 2250   | 1740  | 3990   | 1900  | 1340  | 1290  | 1130  | 528   | 553   |
| 14          | 1460  | 2030    | 1260  | 2240   | 1710  | 8610   | 1830  | 1440  | 1200  | 982   | 519   | 538   |
| 15          | 1310  | 2610    | 1240  | 2310   | 1680  | 7670   | 1770  | 5860  | 1150  | 888   | 504   | 527   |
| 16          | 1230  | 3020    | 1270  | 2210   | 1650  | 10600  | 1720  | 7830  | 1070  | 851   | 624   | 488   |
| 17          | 3470  | 2500    | 1650  | 2110   | 1640  | 17000  | 1660  | 5810  | 1000  | 809   | 1140  | 465   |
| 18          | 4560  | 1770    | 2590  | 2010   | 1620  | 22400  | 1580  | 4560  | 978   | 870   | 1460  | 449   |
| 19          | 4010  | 1450    | 2620  | 1810   | 1700  | 21600  | 1520  | 3460  | 1290  | 882   | 954   | 436   |
| 20          | 3690  | 1340    | 2240  | 1680   | 1770  | 15500  | 1460  | 2250  | 3790  | 803   | 708   | 417   |
| 21          | 3190  | 1340    | 1970  | 1620   | 1760  | 8270   | 1400  | 1750  | 4090  | 779   | 593   | 409   |
| 22          | 2440  | 1410    | 1750  | 1610   | 3090  | 5830   | 1360  | 1610  | 2240  | 773   | 535   | 413   |
| 23          | 1800  | 1500    | 1580  | 1590   | 4870  | 4720   | 1330  | 1550  | 1680  | 739   | 502   | 472   |
| 24          | 1510  | 1600    | 1490  | 1570   | 3900  | 4080   | 1280  | 1590  | 1680  | 731   | 496   | 557   |
| 25          | 1370  | 1640    | 1430  | 1550   | 3100  | 3730   | 1290  | 1510  | 1360  | 775   | 467   | 522   |
| 26          | 1290  | 1570    | 1950  | 2000   | 2630  | 3270   | 1550  | 1370  | 1130  | 739   | 564   | 464   |
| 27          | 1260  | 1500    | 2560  | 10000  | 2140  | 2890   | 1490  | 1300  | 1050  | 710   | 571   | 459   |
| 28          | 1240  | 1460    | 2350  | 9470   | 1940  | 3130   | 1360  | 1630  | 1020  | 712   | 685   | 527   |
| 29          | 1220  | 1400    | 2080  | 8160   | 1900  | 3230   | 1270  | 3820  | 1040  | 684   | 591   | 789   |
| 30          | 1190  | 1340    | 1970  | 7680   | ---   | 2950   | 1240  | 3660  | 1030  | 678   | 600   | 799   |
| 31          | 1150  | ---     | 2540  | 5620   | ---   | 6360   | ---   | 3510  | ---   | 814   | 609   | ---   |
| TOTAL       | 67576 | 45330   | 57320 | 107310 | 68830 | 176990 | 79530 | 77660 | 60598 | 42079 | 20960 | 18003 |
| MEAN        | 2180  | 1511    | 1849  | 3462   | 2373  | 5709   | 2651  | 2505  | 2020  | 1357  | 676   | 600   |
| MAX         | 4590  | 3020    | 2620  | 10000  | 4870  | 22400  | 9690  | 7830  | 5170  | 4090  | 1460  | 860   |
| MIN         | 896   | 1040    | 1240  | 1550   | 1620  | 1500   | 1240  | 1300  | 978   | 678   | 467   | 409   |
| CFSM        | 1.18  | .82     | 1.00  | 1.87   | 1.28  | 3.09   | 1.43  | 1.35  | 1.09  | .73   | .37   | .32   |
| IN.         | 1.36  | .91     | 1.15  | 2.16   | 1.38  | 3.56   | 1.60  | 1.56  | 1.22  | .85   | .42   | .36   |
| CAL YR 1975 | TOTAL | 1388400 | MEAN  | 3804   | MAX   | 34400  | MIN   | 798   | CFSM  | 2.06  | IN    | 27.92 |
| WTR YR 1976 | TOTAL | 822186  | MEAN  | 2246   | MAX   | 22400  | MIN   | 409   | CFSM  | 1.21  | IN    | 16.53 |

## 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                               |               |                             |                                    |
| 22... | 1055 | 2460                                          | 7.1           | 14.0                        | 4.2                                |
| NOV.  |      |                                               |               |                             |                                    |
| 19... | 1415 | 1420                                          | 7.5           | 16.0                        | 4.9                                |
| DEC.  |      |                                               |               |                             |                                    |
| 17... | 1505 | 1690                                          | 6.9           | 11.5                        | 10.2                               |
| JAN.  |      |                                               |               |                             |                                    |
| 14... | 1200 | 2240                                          | 7.0           | 7.0                         | 11.8                               |
| FEB.  |      |                                               |               |                             |                                    |
| 09... | 1345 | 1930                                          | 7.0           | 9.0                         | 11.2                               |
| MAR.  |      |                                               |               |                             |                                    |
| 08... | 1345 | 1500                                          | 7.1           | 14.0                        | 9.6                                |
| APR.  |      |                                               |               |                             |                                    |
| 06... | 1230 | 3130                                          | 7.2           | 15.0                        | 9.0                                |
| MAY   |      |                                               |               |                             |                                    |
| 05... | 1145 | 1580                                          | 7.3           | 13.0                        | 9.1                                |
| JUNE  |      |                                               |               |                             |                                    |
| 08... | 1115 | 1750                                          | 7.3           | 20.5                        | 7.8                                |
| JULY  |      |                                               |               |                             |                                    |
| 12... | 1235 | 1380                                          | 7.2           | 27.0                        | 6.7                                |
| AUG.  |      |                                               |               |                             |                                    |
| 16... | 1530 | 1320                                          | 7.1           | 28.0                        | 6.3                                |
| SEP.  |      |                                               |               |                             |                                    |
| 14... | 1400 | 536                                           | 7.4           | 20.0                        | 8.1                                |

| DATE  | ALKA-<br>LITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) |
|-------|----------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|
| OCT.  |                                        |                                                      |                                                    |                                           |                                     |
| 22... | 18                                     | .06                                                  | <.02                                               | <.02                                      | 22                                  |
| DEC.  |                                        |                                                      |                                                    |                                           |                                     |
| 17... | 20                                     | .24                                                  | <.02                                               | .04                                       | 14                                  |
| JAN.  |                                        |                                                      |                                                    |                                           |                                     |
| 14... | 17                                     | .26                                                  | .02                                                | .05                                       | 12                                  |
| FEB.  |                                        |                                                      |                                                    |                                           |                                     |
| 09... | 14                                     | .25                                                  | <.02                                               | .03                                       | 12                                  |
| MAR.  |                                        |                                                      |                                                    |                                           |                                     |
| 08... | 18                                     | .20                                                  | <.02                                               | .06                                       | 14                                  |
| APR.  |                                        |                                                      |                                                    |                                           |                                     |
| 06... | 14                                     | .24                                                  | <.02                                               | .07                                       | 11                                  |
| MAY   |                                        |                                                      |                                                    |                                           |                                     |
| 05... | 17                                     | .32                                                  | <.02                                               | .04                                       | 13                                  |
| JUNE  |                                        |                                                      |                                                    |                                           |                                     |
| 08... | 15                                     | .20                                                  | <.02                                               | .05                                       | 15                                  |
| JULY  |                                        |                                                      |                                                    |                                           |                                     |
| 12... | 15                                     | .21                                                  | <.02                                               | .06                                       | 12                                  |
| AUG.  |                                        |                                                      |                                                    |                                           |                                     |
| 16... | 21                                     | .09                                                  | <.02                                               | .03                                       | 14                                  |
| SEP.  |                                        |                                                      |                                                    |                                           |                                     |
| 14... | 25                                     | .11                                                  | <.02                                               | .05                                       | 14                                  |



02347500 FLINT RIVER NEAR CULLODEN, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>22... | 54                                                         | 60                                           | 25                           | .8                                                           | 7500                                             | 5.0                                         |
| DEC.<br>17... | 68                                                         | 25                                           | 10                           | .4                                                           | 230                                              | 2.0                                         |
| JAN.<br>14... | 56                                                         | 30                                           | 15                           | .3                                                           | 230                                              | 5.0                                         |
| FEB.<br>09... | 50                                                         | 50                                           | 12                           | 1.2                                                          | 36                                               | 3.0                                         |
| MAR.<br>08... | 58                                                         | 25                                           | 10                           | .3                                                           | 36                                               | 4.0                                         |
| APR.<br>06... | 44                                                         | 80                                           | 29                           | .6                                                           | 91                                               | 4.0                                         |
| MAY<br>05...  | 54                                                         | 40                                           | 13                           | 5.0                                                          | 36                                               | 3.0                                         |
| JUNE<br>08... | 46                                                         | 70                                           | 25                           | .6                                                           | <30                                              | 6.0                                         |
| JULY<br>12... | 49                                                         | 80                                           | 26                           | .6                                                           | 430                                              | 3.0                                         |
| AUG.<br>16... | 68                                                         | 20                                           | 11                           | .8                                                           | 2300                                             | 5.0                                         |
| SEP.<br>14... | 72                                                         | 30                                           | 8                            | .9                                                           | 230                                              | 4.0                                         |



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

WTR YR 1976    MEAN 5.37    MAX 17.79    MIN 1.94

## APALACHICOLA RIVER BASIN

02349500 FLINT RIVER AT MONTEZUMA, GA.--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to July 1974, August to September 1976.

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 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| AUG.<br>10... | 1430 | 2000                                          | 6.7           | 26.0                        | 7.5                                |

| DATE          | ALKA-<br>LITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) |
|---------------|----------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|
| AUG.<br>10... | 19                                     | .13                                                  | .02                                                | .03                                       | 9                                   |

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|---------------------------------------------|
| AUG.<br>10... | 66                                                         | 30                                           | 15                           | 3.0                                         |

02349900 TURKEY CREEK AT BYROMVILLE, GA.

LOCATION.--Lat 32°11'44", long 83°54'03", Dooly County, on downstream side of bridge on State Highway 90, 0.5 mi (0.8 km) south-west of Byromville, and 11 mi (17.7 km) upstream from mouth.

DRAINAGE AREA.--45 mi<sup>2</sup> (117 km<sup>2</sup>), 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.--18 years (1958-76), 49.9 ft<sup>3</sup>/s (1.41 m<sup>3</sup>/s), 15.06 in/yr (382.5 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,940 ft<sup>3</sup>/s (112 m<sup>3</sup>/s) Mar. 31, 1970, gage height, 13.30 ft (4.054 m); 0.1 ft<sup>3</sup>/s (0.003 m<sup>3</sup>/s) July 28, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 400 ft<sup>3</sup>/s (11.3 m<sup>3</sup>/s) and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|--------|------|-------------------------------------------------------|-------------------------|
| May 15 | 1500 | *2520 71.4                                            | 12.35 3.764             |

Minimum daily discharge, 6.8 ft<sup>3</sup>/s (0.193 m<sup>3</sup>/s) Aug. 22.

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

| DAY   | OCT   | NOV   | DEC  | JAN  | FEB  | MAR  | APR   | MAY  | JUN  | JUL   | AUG   | SEP   |
|-------|-------|-------|------|------|------|------|-------|------|------|-------|-------|-------|
| 1     | 16    | 8.6   | 25   | 36   | 92   | 21   | 60    | 89   | 58   | 37    | 13    | 8.1   |
| 2     | 30    | 8.6   | 24   | 26   | 119  | 18   | 46    | 65   | 50   | 40    | 16    | 8.1   |
| 3     | 16    | 8.8   | 19   | 23   | 98   | 18   | 31    | 38   | 47   | 21    | 25    | 7.7   |
| 4     | 12    | 9.3   | 15   | 23   | 80   | 18   | 26    | 26   | 66   | 20    | 15    | 8.1   |
| 5     | 12    | 9.6   | 14   | 18   | 77   | 18   | 24    | 20   | 57   | 42    | 13    | 8.6   |
| 6     | 11    | 10    | 14   | 15   | 69   | 17   | 23    | 17   | 39   | 40    | 12    | 8.4   |
| 7     | 34    | 12    | 14   | 29   | 64   | 22   | 22    | 17   | 27   | 90    | 99    | 11    |
| 8     | 76    | 12    | 14   | 127  | 57   | 25   | 21    | 27   | 21   | 58    | 85    | 14    |
| 9     | 36    | 12    | 16   | 110  | 52   | 33   | 18    | 42   | 17   | 27    | 26    | 13    |
| 10    | 16    | 12    | 16   | 69   | 49   | 31   | 16    | 31   | 27   | 25    | 13    | 12    |
| 11    | 12    | 12    | 15   | 58   | 47   | 18   | 17    | 22   | 25   | 23    | 10    | 11    |
| 12    | 10    | 16    | 14   | 53   | 48   | 15   | 15    | 18   | 26   | 18    | 8.4   | 11    |
| 13    | 9.3   | 31    | 14   | 46   | 42   | 15   | 14    | 14   | 23   | 16    | 7.9   | 11    |
| 14    | 8.4   | 21    | 14   | 45   | 44   | 28   | 14    | 28   | 22   | 15    | 7.5   | 17    |
| 15    | 7.9   | 15    | 14   | 43   | 40   | 63   | 13    | 1610 | 20   | 12    | 7.2   | 19    |
| 16    | 7.5   | 13    | 14   | 34   | 37   | 52   | 13    | 878  | 21   | 11    | 7.0   | 13    |
| 17    | 46    | 13    | 22   | 36   | 36   | 47   | 12    | 347  | 20   | 10    | 8.9   | 13    |
| 18    | 82    | 13    | 28   | 27   | 39   | 32   | 12    | 202  | 19   | 9.8   | 8.9   | 12    |
| 19    | 31    | 12    | 22   | 23   | 71   | 27   | 12    | 132  | 18   | 11    | 7.9   | 12    |
| 20    | 17    | 13    | 16   | 23   | 58   | 25   | 12    | 100  | 22   | 11    | 8.4   | 12    |
| 21    | 13    | 13    | 16   | 23   | 40   | 29   | 11    | 81   | 27   | 11    | 7.2   | 13    |
| 22    | 12    | 13    | 15   | 21   | 48   | 36   | 11    | 83   | 91   | 12    | 6.8   | 14    |
| 23    | 12    | 13    | 14   | 20   | 45   | 26   | 9.8   | 259  | 97   | 12    | 7.0   | 14    |
| 24    | 11    | 14    | 14   | 19   | 31   | 25   | 9.8   | 237  | 34   | 11    | 7.0   | 15    |
| 25    | 11    | 14    | 15   | 19   | 26   | 23   | 15    | 148  | 22   | 12    | 7.5   | 15    |
| 26    | 11    | 13    | 42   | 55   | 25   | 21   | 19    | 119  | 15   | 14    | 9.8   | 19    |
| 27    | 9.6   | 14    | 28   | 256  | 25   | 27   | 16    | 96   | 11   | 13    | 19    | 22    |
| 28    | 9.3   | 14    | 17   | 274  | 24   | 36   | 13    | 107  | 38   | 13    | 13    | 17    |
| 29    | 9.6   | 13    | 14   | 141  | 22   | 28   | 12    | 136  | 95   | 13    | 10    | 16    |
| 30    | 8.8   | 13    | 23   | 104  | ---  | 25   | 36    | 94   | 52   | 14    | 9.1   | 20    |
| 31    | 8.8   | ---   | 37   | 91   | ---  | 33   | ---   | 70   | ---  | 14    | 8.4   | ---   |
| TOTAL | 606.2 | 395.9 | 579  | 1887 | 1505 | 852  | 573.6 | 5153 | 1107 | 675.8 | 503.9 | 395.0 |
| MEAN  | 19.6  | 13.2  | 18.7 | 60.9 | 51.9 | 27.5 | 19.1  | 166  | 36.9 | 21.8  | 16.3  | 13.2  |
| MAX   | 82    | 31    | 42   | 274  | 119  | 63   | 60    | 1610 | 97   | 90    | 99    | 22    |
| MIN   | 7.5   | 8.6   | 14   | 15   | 22   | 15   | 9.8   | 14   | 11   | 9.8   | 6.8   | 7.7   |
| CFSM  | .44   | .29   | .42  | 1.35 | 1.15 | .61  | .42   | 3.69 | .82  | .48   | .36   | .29   |
| IN.   | .50   | .33   | .48  | 1.56 | 1.24 | .70  | .47   | 4.26 | .92  | .56   | .42   | .33   |

|             |       |         |      |      |     |      |     |     |      |      |    |       |
|-------------|-------|---------|------|------|-----|------|-----|-----|------|------|----|-------|
| CAL YR 1975 | TOTAL | 25622.1 | MEAN | 70.2 | MAX | 886  | MIN | 5.8 | CFSM | 1.56 | IN | 21.18 |
| WTR YR 1976 | TOTAL | 14233.4 | MEAN | 38.9 | MAX | 1610 | MIN | 6.8 | CFSM | .86  | IN | 11.77 |

## APALACHICOLA RIVER BASIN

02350600 KINCHAFOONEE CREEK AT PRESTON, GA.

LOCATION.--Lat 32°03'09", long 84°32'54", Webster County, 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 mi<sup>2</sup> (510 km<sup>2</sup>).

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1951 to current year.

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.--25 years, 214 ft<sup>3</sup>/s (6.06 m<sup>3</sup>/s), 14.75 in/yr (374.6 mm/yr).EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,200 ft<sup>3</sup>/s (232 m<sup>3</sup>/s) Mar. 30, 1970, gage height, 8.96 ft (2.73 m); minimum, 18 ft<sup>3</sup>/s (0.51 m<sup>3</sup>/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 ft<sup>3</sup>/s (25.5 m<sup>3</sup>/s) and maximum (\*):

| Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date  | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|--------|------|-------------------------------------------------------|-------------------------|-------|------|-------------------------------------------------------|-------------------------|
| Jan 28 | 1400 | *1900 53.8                                            | 6.92 2.109              | Aug 8 | 0100 | 1460 41.3                                             | 6.52 1.987              |
| July 1 | 1500 | 1530 43.3                                             | 6.59 2.009              |       |      |                                                       |                         |

Minimum discharge, 65 ft<sup>3</sup>/s (1.84 m<sup>3</sup>/s) July 23.DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976  
MEAN VALUES

| DAY         | OCT   | NOV    | DEC  | JAN   | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP   |
|-------------|-------|--------|------|-------|------|------|------|------|------|------|------|-------|
| 1           | 113   | 116    | 234  | 605   | 358  | 188  | 777  | 399  | 130  | 1020 | 80   | 121   |
| 2           | 127   | 114    | 340  | 564   | 385  | 185  | 714  | 432  | 162  | 827  | 77   | 179   |
| 3           | 147   | 115    | 307  | 349   | 378  | 181  | 403  | 275  | 187  | 538  | 72   | 179   |
| 4           | 130   | 117    | 201  | 256   | 319  | 181  | 281  | 169  | 212  | 242  | 72   | 188   |
| 5           | 126   | 122    | 168  | 222   | 289  | 175  | 232  | 140  | 262  | 201  | 72   | 352   |
| 6           | 146   | 133    | 156  | 203   | 281  | 173  | 200  | 128  | 167  | 226  | 68   | 335   |
| 7           | 182   | 130    | 153  | 223   | 272  | 211  | 180  | 124  | 130  | 252  | 682  | 222   |
| 8           | 234   | 143    | 154  | 403   | 257  | 226  | 174  | 205  | 112  | 244  | 1080 | 316   |
| 9           | 226   | 147    | 156  | 529   | 239  | 248  | 163  | 304  | 102  | 167  | 456  | 387   |
| 10          | 166   | 229    | 151  | 422   | 235  | 295  | 153  | 299  | 113  | 135  | 195  | 244   |
| 11          | 135   | 285    | 143  | 276   | 227  | 245  | 147  | 199  | 124  | 115  | 134  | 172   |
| 12          | 123   | 281    | 135  | 252   | 225  | 192  | 145  | 159  | 110  | 106  | 120  | 139   |
| 13          | 117   | 452    | 129  | 246   | 222  | 182  | 142  | 139  | 98   | 100  | 163  | 124   |
| 14          | 113   | 355    | 127  | 238   | 222  | 232  | 143  | 168  | 91   | 93   | 126  | 129   |
| 15          | 113   | 231    | 127  | 229   | 215  | 379  | 145  | 395  | 83   | 85   | 105  | 139   |
| 16          | 118   | 173    | 130  | 216   | 209  | 459  | 144  | 625  | 80   | 79   | 115  | 128   |
| 17          | 166   | 162    | 172  | 204   | 214  | 422  | 138  | 440  | 78   | 74   | 262  | 117   |
| 18          | 281   | 164    | 268  | 194   | 214  | 500  | 131  | 243  | 77   | 72   | 198  | 110   |
| 19          | 332   | 151    | 260  | 183   | 254  | 308  | 127  | 185  | 118  | 73   | 137  | 105   |
| 20          | 212   | 149    | 182  | 180   | 251  | 239  | 121  | 155  | 174  | 71   | 106  | 102   |
| 21          | 154   | 160    | 157  | 185   | 216  | 238  | 119  | 137  | 340  | 72   | 92   | 104   |
| 22          | 145   | 165    | 150  | 186   | 279  | 263  | 140  | 139  | 251  | 69   | 89   | 134   |
| 23          | 134   | 159    | 148  | 182   | 353  | 251  | 177  | 212  | 159  | 65   | 85   | 139   |
| 24          | 133   | 161    | 145  | 179   | 317  | 211  | 148  | 272  | 152  | 83   | 83   | 115   |
| 25          | 133   | 156    | 152  | 180   | 234  | 195  | 202  | 260  | 135  | 157  | 79   | 109   |
| 26          | 128   | 150    | 239  | 285   | 210  | 195  | 343  | 189  | 113  | 123  | 112  | 112   |
| 27          | 125   | 152    | 290  | 859   | 202  | 248  | 278  | 156  | 148  | 212  | 415  | 132   |
| 28          | 127   | 158    | 239  | 1700  | 198  | 380  | 168  | 221  | 234  | 146  | 546  | 149   |
| 29          | 136   | 152    | 183  | 1170  | 192  | 405  | 137  | 272  | 156  | 101  | 402  | 169   |
| 30          | 126   | 148    | 260  | 562   | ---  | 299  | 205  | 200  | 171  | 84   | 188  | 207   |
| 31          | 120   | ---    | 425  | 391   | ---  | 504  | ---  | 148  | ---  | 79   | 135  | ---   |
| TOTAL       | 4768  | 5330   | 6081 | 11873 | 7467 | 8410 | 6577 | 7389 | 4469 | 5911 | 6546 | 5158  |
| MEAN        | 154   | 178    | 196  | 383   | 257  | 271  | 219  | 238  | 149  | 191  | 211  | 172   |
| MAX         | 332   | 452    | 425  | 1700  | 385  | 504  | 777  | 625  | 340  | 1020 | 1080 | 387   |
| MIN         | 113   | 114    | 127  | 179   | 192  | 173  | 119  | 124  | 77   | 65   | 68   | 102   |
| CFSM        | .78   | .90    | .99  | 1.94  | 1.30 | 1.38 | 1.11 | 1.21 | .76  | .97  | 1.07 | .87   |
| IN.         | .90   | 1.01   | 1.15 | 2.24  | 1.41 | 1.59 | 1.24 | 1.40 | .84  | 1.12 | 1.24 | .97   |
| CAL YR 1975 | TOTAL | 110988 | MEAN | 304   | MAX  | 4100 | MIN  | 77   | CFSM | 1.54 | IN   | 20.96 |
| WTR YR 1976 | TOTAL | 79979  | MEAN | 219   | MAX  | 1700 | MIN  | 65   | CFSM | 1.11 | IN   | 15.10 |

02350600 KINCHAFONEE 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 1975 TO SEPTEMBER 1976

| DATE       | TIME | INSTANTANEOUS DISCHARGE (CFS) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | DIS-SOLVED OXYGEN (MG/L) |
|------------|------|-------------------------------|----------------------------------|------------|---------------------|--------------------------|
| SEP. 15... | 1215 | 139                           | 34                               | 5.7        | 19.0                | 8.0                      |

| DATE       | DIS-SOLVED SILICA (SiO2) (MG/L) | DIS-SOLVED ALUMINUM (AL) (UG/L) | DIS-SOLVED IRON (FE) (UG/L) | DIS-SOLVED MANGANESE (MN) (UG/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. 15... | 7.7                             | 30                              | 480                         | 160                              | 3.7                            | .5                               | 1.5                           | .7                              | 12                        | 0                      | 10                         |

| DATE       | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLORIDE (CL) (MG/L) | DIS-SOLVED FLUORIDE (F) (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 (N) (MG/L) | TOTAL AMMONIA NITROGEN (N) (MG/L) | DIS-SOLVED AMMONIA NITROGEN (N) (MG/L) |
|------------|---------------------------------|---------------------------------|--------------------------------|-------------------------------|---------------------------------|-------------------------------|---------------------------------|---------------------------------------|-------------------------------|-----------------------------------|----------------------------------------|
| SEP. 15... | .7                              | 2.6                             | .1                             | .11                           | .49                             | .00                           | .00                             | .11                                   | .11                           | .02                               | .05                                    |

| DATE       | DIS-SOLVED AMMONIA (NH4) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL 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 PHOSPHATE (PO4) (MG/L) | DIS-SOLVED ORTHO PHOSPHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) |
|------------|---------------------------------|-----------------------------------|------------------------------------|---------------------------|-----------------------------|-----------------------------|----------------------------------|-----------------------------------|-----------------------------------------|----------------------------------------|---------------------------------------------|
| SEP. 15... | .06                             | .30                               | .32                                | .43                       | 1.9                         | .02                         | .02                              | .00                               | .00                                     | .00                                    | 32                                          |

| DATE       | HARDNESS (CA+MG) (MG/L) | NON-CARBONATE HARDNESS (MG/L) | COLOR (PLATINUM-COBALT UNITS) | DIS-SOLVED ARSENIC (AS) (UG/L) | DIS-SOLVED CADMIUM (CD) (UG/L) | DIS-SOLVED CHROMIUM (CR) (UG/L) | DIS-SOLVED COPPER (CU) (UG/L) | DIS-SOLVED LEAD (PB) (UG/L) | DIS-SOLVED MERCURY (HG) (UG/L) | DIS-SOLVED SELENIUM (SE) (UG/L) | DIS-SOLVED ZINC (ZN) (UG/L) |
|------------|-------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|---------------------------------|-------------------------------|-----------------------------|--------------------------------|---------------------------------|-----------------------------|
| SEP. 15... | 11                      | 1                             | 100                           | 1                              | 4                              | 0                               | 21                            | 22                          | .0                             | 0                               | 20                          |



## APALACHICOLA RIVER BASIN

02352500 FLINT RIVER AT ALBANY, GA.

LOCATION.--Lat 31°35'39", long 84°04'39", Dougherty County, 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 mi<sup>2</sup> (13,800 km<sup>2</sup>), 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 hm<sup>3</sup>); and at Warwick Reservoir since 1930, capacity about 35,000 acre-ft (43.2 hm<sup>3</sup>). Normal operation of powerplants does not materially affect figures of monthly runoff.

AVERAGE DISCHARGE.--66 years (1901-20, 1929-76), 6,339 ft<sup>3</sup>/s (180 m<sup>3</sup>/s), 16.21 in/yr (411.7 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 77,000 ft<sup>3</sup>/s (2,180 m<sup>3</sup>/s) Mar. 7, 1966, gage height, 34.72 ft (10.583 m); minimum daily, 327 ft<sup>3</sup>/s (9.26 m<sup>3</sup>/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 ft<sup>3</sup>/s (2,610 m<sup>3</sup>/s) from rating curve extended above 75,000 ft<sup>3</sup>/s (2,120 m<sup>3</sup>/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25,100 ft<sup>3</sup>/s (711 m<sup>3</sup>/s) May 17, gage height, 18.75 ft (5.715 m); minimum daily, 1,280 ft<sup>3</sup>/s (36.2 m<sup>3</sup>/s) July 26.

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

| DAY   | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG   | SEP   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 1     | 3870   | 3370   | 4410   | 6750   | 18600  | 4700   | 9840   | 7290   | 9880   | 5250   | 2350  | 4270  |
| 2     | 4010   | 3050   | 5500   | 7280   | 16300  | 4560   | 9580   | 6090   | 6930   | 5410   | 2400  | 3560  |
| 3     | 2920   | 2470   | 4490   | 9470   | 15200  | 4820   | 11200  | 7500   | 7890   | 5560   | 3080  | 2920  |
| 4     | 1940   | 3450   | 4040   | 9160   | 10900  | 4900   | 13600  | 7180   | 8340   | 7280   | 3810  | 2540  |
| 5     | 3290   | 3220   | 4490   | 9100   | 9110   | 7270   | 14400  | 6590   | 7270   | 5540   | 2810  | 3150  |
| 6     | 3530   | 3540   | 5880   | 8390   | 8420   | 5030   | 12000  | 5470   | 7500   | 7040   | 3570  | 2950  |
| 7     | 4100   | 3360   | 4060   | 7900   | 8710   | 4600   | 11500  | 3690   | 8190   | 6940   | 3540  | 3700  |
| 8     | 4950   | 3070   | 5480   | 8950   | 6950   | 4080   | 9100   | 5420   | 8260   | 7010   | 5470  | 4730  |
| 9     | 5850   | 2970   | 5400   | 8130   | 6550   | 6440   | 7380   | 3960   | 8940   | 7250   | 5200  | 4250  |
| 10    | 8500   | 2240   | 5380   | 7910   | 6370   | 5940   | 7330   | 3190   | 6180   | 6690   | 5050  | 4650  |
| 11    | 6960   | 4480   | 4490   | 8540   | 6320   | 4750   | 4350   | 6770   | 5620   | 7120   | 5470  | 3140  |
| 12    | 7890   | 4800   | 3550   | 9320   | 6120   | 4270   | 3150   | 4910   | 4770   | 6640   | 5310  | 2790  |
| 13    | 6140   | 3660   | 3060   | 9180   | 5870   | 4610   | 5670   | 4950   | 3970   | 6420   | 1950  | 2140  |
| 14    | 6730   | 7530   | 2760   | 6190   | 5010   | 6320   | 5630   | 4550   | 3280   | 4070   | 2090  | 3380  |
| 15    | 4640   | 6090   | 4720   | 6460   | 4140   | 9400   | 5610   | 11800  | 2850   | 3410   | 2110  | 2700  |
| 16    | 3590   | 5280   | 5340   | 6300   | 5370   | 13600  | 4170   | 21000  | 2390   | 4260   | 2010  | 2390  |
| 17    | 5050   | 4340   | 4580   | 4560   | 5930   | 16500  | 4140   | 24400  | 2470   | 3180   | 2280  | 3300  |
| 18    | 5530   | 6500   | 5360   | 4510   | 5850   | 14700  | 4190   | 21000  | 2400   | 2090   | 2630  | 1750  |
| 19    | 2360   | 5160   | 5680   | 4960   | 5960   | 12900  | 4130   | 17000  | 2410   | 1780   | 2630  | 1800  |
| 20    | 7830   | 5940   | 4740   | 5870   | 5960   | 16600  | 4360   | 13400  | 2830   | 2520   | 2940  | 2340  |
| 21    | 8180   | 4090   | 2930   | 5500   | 5290   | 18500  | 3860   | 13100  | 4410   | 3180   | 2590  | 2010  |
| 22    | 7730   | 3820   | 4460   | 5640   | 5070   | 21500  | 3250   | 8610   | 5360   | 2700   | 2510  | 1850  |
| 23    | 6590   | 3220   | 2840   | 4810   | 6060   | 21900  | 3430   | 12800  | 6590   | 1840   | 3500  | 2740  |
| 24    | 6330   | 4270   | 4090   | 2930   | 6860   | 22200  | 2810   | 12600  | 6740   | 1860   | 3150  | 2120  |
| 25    | 4900   | 5350   | 3520   | 2820   | 6740   | 20800  | 2770   | 13000  | 6070   | 1620   | 2510  | 2370  |
| 26    | 2640   | 4090   | 5810   | 6970   | 6780   | 13300  | 4620   | 12500  | 5790   | 1280   | 2400  | 2850  |
| 27    | 3650   | 2580   | 5410   | 10200  | 7660   | 9160   | 5770   | 10500  | 4250   | 2110   | 2310  | 2170  |
| 28    | 3660   | 2740   | 4700   | 12100  | 7090   | 8790   | 4490   | 9250   | 4120   | 2030   | 2040  | 2240  |
| 29    | 3620   | 5800   | 5560   | 16900  | 6690   | 7360   | 4290   | 5190   | 4960   | 2900   | 2370  | 2920  |
| 30    | 3520   | 2520   | 6020   | 19900  | ---    | 7690   | 4160   | 5020   | 4100   | 2740   | 4180  | 2820  |
| 31    | 3220   | ---    | 5770   | 18200  | ---    | 7890   | ---    | 7990   | ---    | 2670   | 3170  | ---   |
| TOTAL | 153720 | 123000 | 144520 | 254900 | 221880 | 315080 | 190780 | 296720 | 164760 | 130390 | 97430 | 86540 |
| MEAN  | 4959   | 4100   | 4662   | 8223   | 7651   | 10160  | 6359   | 9572   | 5492   | 4206   | 3143  | 2885  |
| MAX   | 8500   | 7530   | 6020   | 19900  | 18600  | 22200  | 14400  | 24400  | 9880   | 7280   | 5470  | 4730  |
| MIN   | 1940   | 2240   | 2760   | 2820   | 4140   | 4080   | 2770   | 3190   | 2390   | 1280   | 1950  | 1750  |
| CFSM  | .93    | .77    | .88    | 1.55   | 1.44   | 1.91   | 1.20   | 1.80   | 1.03   | .79    | .59   | .54   |
| IN.   | 1.08   | .86    | 1.01   | 1.79   | 1.55   | 2.21   | 1.34   | 2.08   | 1.15   | .91    | .68   | .61   |

CAL YR 1975 TOTAL 3504890 MEAN 9602 MAX 55400 MIN 1940 CFSM 1.81 IN 24.55  
WTR YR 1976 TOTAL 2179720 MEAN 5956 MAX 24400 MIN 1280 CFSM 1.12 IN 15.27

02352500 FLINT RIVER AT ALBANY, GA.--Continued

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

| DAY         | OCT       | NOV  | DEC       | JAN   | FEB      | MAR   | APR   | MAY   | JUN  | JUL  | AUG  | SEP  |
|-------------|-----------|------|-----------|-------|----------|-------|-------|-------|------|------|------|------|
| 1           | 4.96      | 4.68 | 5.20      | 6.58  | 13.99    | 5.46  | 8.20  | 6.87  | 8.22 | 5.66 | 3.85 | 5.26 |
| 2           | 4.99      | 4.44 | 5.85      | 6.87  | 12.36    | 5.38  | 8.05  | 6.22  | 6.65 | 5.83 | 3.89 | 4.77 |
| 3           | 4.35      | 3.98 | 5.31      | 8.01  | 11.55    | 5.52  | 8.97  | 6.98  | 7.18 | 5.91 | 4.44 | 4.34 |
| 4           | 3.44      | 4.67 | 4.90      | 7.83  | 8.79     | 5.60  | 10.49 | 6.81  | 7.42 | 6.86 | 4.83 | 4.04 |
| 5           | 4.60      | 4.55 | 5.31      | 7.81  | 7.82     | 6.85  | 11.05 | 6.49  | 6.85 | 5.93 | 4.22 | 4.44 |
| 6           | 4.78      | 4.79 | 6.07      | 7.45  | 7.46     | 5.64  | 9.47  | 5.89  | 6.99 | 6.74 | 4.72 | 4.22 |
| 7           | 5.11      | 4.60 | 5.12      | 7.19  | 7.60     | 5.40  | 9.15  | 4.81  | 7.35 | 6.67 | 4.69 | 4.71 |
| 8           | 5.59      | 4.45 | 5.89      | 7.74  | 6.68     | 5.04  | 7.82  | 5.86  | 7.38 | 6.70 | 5.89 | 5.34 |
| 9           | 6.06      | 4.35 | 5.78      | 7.57  | 6.48     | 6.40  | 6.91  | 5.02  | 7.72 | 6.81 | 5.75 | 5.09 |
| 10          | 7.49      | 3.76 | 5.82      | 7.20  | 6.38     | 6.12  | 6.90  | 4.37  | 6.26 | 6.53 | 5.67 | 5.28 |
| 11          | 6.68      | 5.28 | 5.34      | 7.52  | 6.35     | 5.48  | 5.16  | 6.60  | 5.89 | 6.77 | 5.86 | 4.41 |
| 12          | 7.19      | 5.51 | 4.78      | 7.92  | 6.18     | 5.23  | 4.36  | 5.56  | 5.29 | 6.52 | 5.81 | 4.13 |
| 13          | 6.26      | 4.75 | 4.45      | 7.84  | 6.09     | 5.40  | 5.91  | 5.55  | 4.98 | 6.40 | 3.29 | 3.62 |
| 14          | 6.55      | 6.99 | 4.24      | 6.26  | 5.61     | 6.35  | 5.96  | 5.30  | 4.57 | 5.05 | 3.60 | 4.68 |
| 15          | 5.31      | 6.23 | 5.39      | 6.42  | 5.10     | 7.98  | 5.97  | 9.49  | 4.26 | 4.67 | 3.62 | 4.10 |
| 16          | 4.74      | 5.79 | 5.82      | 6.34  | 5.82     | 10.51 | 5.04  | 15.83 | 3.90 | 5.06 | 3.52 | 3.90 |
| 17          | 5.65      | 5.22 | 5.33      | 5.34  | 6.12     | 12.47 | 5.09  | 18.27 | 3.97 | 4.40 | 3.79 | 4.41 |
| 18          | 5.93      | 6.42 | 5.77      | 5.32  | 6.07     | 11.18 | 5.21  | 15.81 | 3.91 | 3.61 | 4.11 | 3.25 |
| 19          | 3.81      | 5.52 | 5.97      | 5.60  | 6.14     | 9.92  | 5.17  | 12.82 | 3.91 | 3.24 | 4.07 | 3.30 |
| 20          | 7.15      | 6.15 | 5.44      | 6.08  | 6.13     | 12.50 | 5.22  | 10.29 | 4.29 | 4.00 | 4.36 | 3.83 |
| 21          | 7.34      | 5.02 | 4.25      | 5.88  | 5.78     | 13.96 | 4.92  | 10.08 | 5.33 | 4.44 | 4.06 | 3.52 |
| 22          | 7.11      | 4.90 | 5.25      | 5.95  | 5.64     | 16.19 | 4.59  | 7.55  | 5.79 | 4.06 | 4.02 | 3.29 |
| 23          | 6.48      | 4.53 | 4.26      | 5.49  | 6.19     | 16.51 | 4.61  | 9.98  | 6.50 | 3.34 | 4.71 | 4.13 |
| 24          | 6.36      | 5.09 | 5.07      | 4.32  | 6.62     | 16.77 | 4.23  | 9.76  | 6.58 | 3.37 | 4.43 | 3.60 |
| 25          | 5.47      | 5.82 | 4.78      | 4.24  | 6.55     | 15.66 | 4.23  | 10.02 | 6.19 | 3.08 | 3.98 | 3.85 |
| 26          | 4.14      | 4.97 | 6.03      | 6.70  | 6.52     | 10.22 | 5.44  | 9.72  | 5.99 | 2.62 | 3.91 | 4.29 |
| 27          | 4.78      | 3.85 | 5.82      | 8.39  | 7.06     | 7.83  | 6.04  | 8.57  | 4.97 | 3.62 | 3.82 | 3.67 |
| 28          | 4.74      | 3.72 | 5.44      | 9.50  | 6.76     | 7.65  | 5.29  | 7.88  | 5.01 | 3.51 | 3.56 | 3.76 |
| 29          | 4.75      | 5.96 | 5.91      | 12.83 | 6.55     | 6.92  | 5.22  | 5.57  | 5.56 | 4.29 | 3.80 | 4.32 |
| 30          | 4.69      | 4.02 | 6.15      | 15.01 | ---      | 7.09  | 5.05  | 5.61  | 5.06 | 4.18 | 5.15 | 4.24 |
| 31          | 4.53      | ---  | 6.02      | 13.68 | ---      | 7.19  | ---   | 7.24  | ---  | 4.11 | 4.42 | ---  |
| MEAN        | 5.52      | 5.00 | 5.38      | 7.45  | 7.12     | 8.72  | 6.32  | 8.28  | 5.80 | 4.97 | 4.38 | 4.19 |
| MAX         | 7.49      | 6.99 | 6.15      | 15.01 | 13.99    | 16.77 | 11.05 | 18.27 | 8.22 | 6.86 | 5.89 | 5.34 |
| MIN         | 3.44      | 3.72 | 4.24      | 4.24  | 5.10     | 5.04  | 4.23  | 4.37  | 3.90 | 2.62 | 3.29 | 3.25 |
| WTR YR 1976 | MEAN 6.10 |      | MAX 18.27 |       | MIN 2.62 |       |       |       |      |      |      |      |

## 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|------------------------------------------|---------------|-----------------------------|------------------------------------|
| DEC.<br>09... | 1515 | 2550                                     | 7.1           | 12.0                        | 9.8                                |
| FEB.<br>10... | 1455 | 4270                                     | 7.2           | 10.0                        | 10.6                               |
| MAY<br>11...  | 1230 | 6820                                     | 7.0           | 21.0                        | 8.3                                |
| AUG.<br>10... | 1215 | 4780                                     | 6.3           | 26.5                        | 7.7                                |

| DATE          | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) |
|---------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| DEC.<br>09... | 20                                       | .17                                                  | <.02                                               | .02                                       | 19                                 |
| FEB.<br>10... | 21                                       | .29                                                  | .03                                                | .04                                       | 23                                 |
| MAY<br>11...  | 24                                       | .27                                                  | <.02                                               | .02                                       | 24                                 |
| AUG.<br>10... | 17                                       | .11                                                  | .03                                                | .04                                       | 19                                 |

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| DEC.<br>09... | 61                                                         | 35                                           | 9                            | .5                                                           | 36                                               | 3.0                                         |
| FEB.<br>10... | 70                                                         | 60                                           | 25                           | .6                                                           | 36                                               | 4.0                                         |
| MAY<br>11...  | 66                                                         | 50                                           | 10                           | .7                                                           | <30                                              | 11                                          |
| AUG.<br>10... | 60                                                         | 40                                           | 13                           | --                                                           | --                                               | 5.0                                         |

## APALACHICOLA RIVER BASIN

293

02352790 FLINT RIVER NEAR PUTNEY, GA.

LOCATION.--Lat 31°26'39", long 84°08'16", Dougherty County, at Plant Mitchell intake, and 2.5 mi (4.0 km) south of Putney.

DRAINAGE AREA.--5,340 mi<sup>2</sup> (13,800 km<sup>2</sup>), 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                               |               |                             |                                    |
| 08... | 1545 | 3940                                          | 7.0           | 21.5                        | 7.4                                |
| DEC.  |      |                                               |               |                             |                                    |
| 09... | 1400 | 7150                                          | 7.1           | 12.5                        | 10.0                               |
| JAN.  |      |                                               |               |                             |                                    |
| 07... | 1615 | 3110                                          | 7.1           | 7.5                         | 10.4                               |
| FEB.  |      |                                               |               |                             |                                    |
| 10... | 1345 | 5650                                          | 7.1           | 10.5                        | 9.9                                |
| MAR.  |      |                                               |               |                             |                                    |
| 10... | 1515 | 3740                                          | 7.2           | 17.0                        | 8.9                                |
| APR.  |      |                                               |               |                             |                                    |
| 06... | 1745 | 8600                                          | 7.1           | 16.0                        | 8.3                                |
| MAY   |      |                                               |               |                             |                                    |
| 11... | 1100 | 6190                                          | 7.0           | 21.0                        | 8.4                                |
| JUNE  |      |                                               |               |                             |                                    |
| 09... | 1545 | 8440                                          | 7.1           | 24.0                        | 7.6                                |
| JULY  |      |                                               |               |                             |                                    |
| 08... | 1530 | 6720                                          | 6.8           | 25.0                        | 6.7                                |
| AUG.  |      |                                               |               |                             |                                    |
| 10... | 1030 | 4760                                          | 7.2           | 26.0                        | 7.8                                |
| SEP.  |      |                                               |               |                             |                                    |
| 15... | 1500 | 3290                                          | 7.5           | 25.0                        | 6.8                                |

| DATE  | ALKA-<br>LINIT<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) |
|-------|-----------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|------------------------------------------------------------|
| OCT.  |                                         |                                                      |                                                    |                                           |                                    |                                                            |
| 08... | 28                                      | .40                                                  | .24                                                | .09                                       | 25                                 | 79                                                         |
| DEC.  |                                         |                                                      |                                                    |                                           |                                    |                                                            |
| 09... | 21                                      | .19                                                  | .08                                                | .03                                       | 20                                 | 66                                                         |
| JAN.  |                                         |                                                      |                                                    |                                           |                                    |                                                            |
| 07... | 17                                      | .25                                                  | .06                                                | .07                                       | 17                                 | 59                                                         |
| FEB.  |                                         |                                                      |                                                    |                                           |                                    |                                                            |
| 10... | 22                                      | .38                                                  | .09                                                | .08                                       | 23                                 | 71                                                         |
| MAR.  |                                         |                                                      |                                                    |                                           |                                    |                                                            |
| 10... | 25                                      | .26                                                  | .14                                                | .06                                       | 26                                 | 77                                                         |
| APR.  |                                         |                                                      |                                                    |                                           |                                    |                                                            |
| 06... | 19                                      | .26                                                  | .09                                                | .05                                       | 16                                 | 57                                                         |
| MAY   |                                         |                                                      |                                                    |                                           |                                    |                                                            |
| 11... | 25                                      | .54                                                  | .06                                                | .05                                       | 26                                 | 71                                                         |
| JUNE  |                                         |                                                      |                                                    |                                           |                                    |                                                            |
| 09... | 24                                      | .26                                                  | .06                                                | .15                                       | 24                                 | 70                                                         |
| JULY  |                                         |                                                      |                                                    |                                           |                                    |                                                            |
| 08... | 19                                      | .23                                                  | .08                                                | .06                                       | 20                                 | 62                                                         |
| AUG.  |                                         |                                                      |                                                    |                                           |                                    |                                                            |
| 10... | 22                                      | .17                                                  | .04                                                | .04                                       | 24                                 | 68                                                         |
| SEP.  |                                         |                                                      |                                                    |                                           |                                    |                                                            |
| 15... | 28                                      | .28                                                  | .17                                                | .02                                       | 29                                 | 85                                                         |

APALACHICOLA RIVER BASIN  
02352790 FLINT RIVER NEAR PUTNEY, GA.--Continued

WATER QUALITY DATA. WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | COLOR<br>(PLAT-<br>INUM-<br>CORAL<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | CON-<br>FIRMED<br>COLI-<br>FORM<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|-------|---------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|------------------------------------------|---------------------------------------------|
| OCT.  |                                             |                              |                                                              |                                                  |                                          |                                             |
| 08... | 30                                          | 11                           | .8                                                           | 2300                                             | 2300                                     | 9.0                                         |
| DEC.  |                                             |                              |                                                              |                                                  |                                          |                                             |
| 09... | 40                                          | 9                            | .6                                                           | 930                                              | 2300                                     | 3.0                                         |
| JAN.  |                                             |                              |                                                              |                                                  |                                          |                                             |
| 07... | 40                                          | 11                           | .6                                                           | 91                                               | 2300                                     | 4.0                                         |
| FEB.  |                                             |                              |                                                              |                                                  |                                          |                                             |
| 10... | 70                                          | 23                           | .6                                                           | 2300                                             | 4300                                     | 5.0                                         |
| MAR.  |                                             |                              |                                                              |                                                  |                                          |                                             |
| 10... | 30                                          | 8                            | 1.3                                                          | 91                                               | 15000                                    | 2.0                                         |
| APR.  |                                             |                              |                                                              |                                                  |                                          |                                             |
| 06... | 60                                          | 22                           | --                                                           | --                                               | --                                       | 3.0                                         |
| MAY   |                                             |                              |                                                              |                                                  |                                          |                                             |
| 11... | 40                                          | 11                           | .5                                                           | 230                                              | 4300                                     | 11                                          |
| JUNE  |                                             |                              |                                                              |                                                  |                                          |                                             |
| 09... | 60                                          | 20                           | .7                                                           | 750                                              | 4300                                     | 11                                          |
| JULY  |                                             |                              |                                                              |                                                  |                                          |                                             |
| 08... | 90                                          | 22                           | 1.3                                                          | 2300                                             | --                                       | 8.0                                         |
| AUG.  |                                             |                              |                                                              |                                                  |                                          |                                             |
| 10... | 30                                          | 11                           | --                                                           | --                                               | --                                       | 4.0                                         |
| SEP.  |                                             |                              |                                                              |                                                  |                                          |                                             |
| 15... | 25                                          | 4                            | .6                                                           | 430                                              | --                                       | 4.0                                         |

## APALACHICOLA RIVER BASIN

295

02353000 FLINT RIVER AT NEWTON, GA.

LOCATION.--Lat 31°18'34", long 84°20'06", Baker County, 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 mi<sup>2</sup> (14,900 km<sup>2</sup>), 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 except those for period of no gage-height record, which are fair. Flow regulated by powerplants at Flint River Reservoir since 1921, capacity, 7,500 acre-ft (9.25 hm<sup>3</sup>); and at Warwick Reservoir since 1930, capacity, about 35,000 acre-ft (43.2 hm<sup>3</sup>). Normal operation of powerplants does not materially affect figures of monthly runoff.

AVERAGE DISCHARGE.--32 years, 7,158 ft<sup>3</sup>/s (203 m<sup>3</sup>/s), 16.93 in/yr (430.0 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 66,000 ft<sup>3</sup>/s (1,870 m<sup>3</sup>/s) Mar. 9, 1966, gage height, 34.9 ft (10.64 m); minimum, 790 ft<sup>3</sup>/s (22.4 m<sup>3</sup>/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 ft<sup>3</sup>/s (2,660 m<sup>3</sup>/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21,300 ft<sup>3</sup>/s (603 m<sup>3</sup>/s) May 18, gage height, 17.70 ft (5.395 m); minimum, 2,080 ft<sup>3</sup>/s (58.9 m<sup>3</sup>/s) Sept. 23.

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

| DAY         | OCT    | NOV     | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP    |
|-------------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1           | 3670   | 3200    | 2200   | 6310   | 16800  | 6280   | 9500   | 7060   | 9370   | 5440   | 3310   | 3710   |
| 2           | 4750   | 3000    | 5200   | 6600   | 17000  | 4960   | 9780   | 6330   | 8700   | 6170   | 3180   | 4560   |
| 3           | 3930   | 3100    | 4930   | 7720   | 14200  | 5310   | 10300  | 7080   | 8380   | 6150   | 3380   | 3740   |
| 4           | 3210   | 3300    | 4670   | 8310   | 13100  | 5000   | 11600  | 7770   | 8490   | 6820   | 4670   | 3270   |
| 5           | 3320   | 3200    | 4670   | 8240   | 10400  | 6140   | 14300  | 7260   | 8700   | 6860   | 3580   | 3590   |
| 6           | 3950   | 3400    | 5780   | 8050   | 8880   | 6400   | 12200  | 6490   | 7850   | 6620   | 4190   | 3170   |
| 7           | 4180   | 3200    | 4560   | 7890   | 8800   | 5090   | 11700  | 5580   | 8460   | 7590   | 4090   | 3900   |
| 8           | 4760   | 3000    | 5210   | 7930   | 8610   | 4160   | 10500  | 5200   | 8580   | 7590   | 4900   | 4520   |
| 9           | 5570   | 2800    | 6010   | 7980   | 7050   | 5810   | 8860   | 5790   | 8760   | 7550   | 5670   | 4400   |
| 10          | 6680   | 2600    | 5290   | 8150   | 7060   | 6270   | 7920   | 4110   | 8210   | 7230   | 5400   | 4770   |
| 11          | 7320   | 3200    | 5130   | 7830   | 6920   | 5500   | 7420   | 5710   | 7160   | 7480   | 5500   | 4300   |
| 12          | 7290   | 4400    | 4470   | 8290   | 6780   | 4670   | 4380   | 6480   | 6530   | 6990   | 5760   | 3690   |
| 13          | 6870   | 3600    | 3950   | 8570   | 6420   | 4710   | 5970   | 5640   | 5180   | 7180   | 4570   | 2780   |
| 14          | 6670   | 6800    | 3520   | 7620   | 6210   | 5560   | 6370   | 5710   | 4750   | 6220   | 2640   | 3370   |
| 15          | 6200   | 5800    | 3730   | 6520   | 5540   | 7400   | 6440   | 6850   | 4360   | 4560   | 2870   | 3740   |
| 16          | 4300   | 5000    | 5710   | 6540   | 4890   | 9200   | 5870   | 14400  | 3760   | 5120   | 2950   | 2930   |
| 17          | 4950   | 4200    | 5200   | 5950   | 6210   | 13100  | 5360   | 19300  | 3670   | 4620   | 2970   | 3680   |
| 18          | 5830   | 6000    | 5100   | 5240   | 6210   | 13700  | 4880   | 21000  | 3590   | 3450   | 2970   | 2790   |
| 19          | 4290   | 5200    | 5530   | 4670   | 6230   | 11900  | 4980   | 18300  | 3550   | 3190   | 3410   | 2380   |
| 20          | 5190   | 5800    | 5290   | 5850   | 6190   | 12800  | 5550   | 14600  | 3660   | 3180   | 3280   | 2620   |
| 21          | 7540   | 4600    | 4340   | 5780   | 5990   | 15100  | 5070   | 12400  | 4340   | 3900   | 3420   | 2750   |
| 22          | 7610   | 3800    | 4130   | 5800   | 5960   | 17500  | 4210   | 10600  | 5750   | 3950   | 3040   | 2430   |
| 23          | 7190   | 3200    | 3810   | 5490   | 5460   | 19200  | 4750   | 11000  | 6400   | 3070   | 3480   | 2950   |
| 24          | 6570   | 4000    | 4300   | 4890   | 6780   | 19900  | 4000   | 12500  | 6820   | 2810   | 4110   | 2720   |
| 25          | 6060   | 5000    | 4060   | 3450   | 6780   | 20200  | 3700   | 12700  | 6790   | 2760   | 3380   | 2900   |
| 26          | 3940   | 4000    | 4530   | 4360   | 6850   | 17500  | 4300   | 12400  | 6670   | 2450   | 3020   | 3110   |
| 27          | 4230   | 3000    | 6300   | 8300   | 6860   | 11300  | 5710   | 11600  | 6210   | 2570   | 3000   | 3130   |
| 28          | 4260   | 3600    | 4890   | 9800   | 7350   | 9630   | 5790   | 10100  | 3940   | 2860   | 2840   | 2710   |
| 29          | 3740   | 4800    | 5370   | 12000  | 6640   | 9240   | 5060   | 8890   | 5990   | 3480   | 2580   | 2820   |
| 30          | 3790   | 3000    | 5960   | 16400  | ---    | 8600   | 4770   | 6150   | 5080   | 3600   | 3870   | 3670   |
| 31          | 3400   | ---     | 5820   | 17300  | ---    | 8690   | ---    | 7260   | ---    | 3580   | 4200   | ---    |
| TOTAL       | 161260 | 119800  | 149660 | 237830 | 232170 | 300820 | 211240 | 296260 | 189700 | 155040 | 116230 | 101100 |
| MEAN        | 5202   | 3993    | 4828   | 7672   | 8006   | 9704   | 7041   | 9557   | 6323   | 5001   | 3749   | 3370   |
| MAX         | 7610   | 6800    | 6300   | 17300  | 17000  | 20200  | 14300  | 21000  | 9370   | 7590   | 5760   | 4770   |
| MIN         | 3210   | 2600    | 2200   | 3450   | 4890   | 4160   | 3700   | 4110   | 3550   | 2450   | 2580   | 2380   |
| CFSM        | .91    | .70     | .84    | 1.34   | 1.39   | 1.69   | 1.23   | 1.66   | 1.10   | .87    | .65    | .59    |
| IN.         | 1.05   | .78     | .97    | 1.54   | 1.50   | 1.95   | 1.37   | 1.92   | 1.23   | 1.00   | .75    | .66    |
| CAL YR 1975 | TOTAL  | 3538620 | MEAN   | 9695   | MAX    | 46900  | MIN    | 2200   | CFSM   | 1.69   | IN     | 22.93  |
| WTR YR 1976 | TOTAL  | 2271110 | MEAN   | 6205   | MAX    | 21000  | MIN    | 2200   | CFSM   | 1.08   | IN     | 14.72  |

NOTE: No gage-height record Oct. 30 to Dec. 1.

## 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|------------------------------------------|---------------|-----------------------------|------------------------------------|
| DEC.<br>09... | 1130 | 6840                                     | 7.2           | 13.5                        | 9.9                                |
| FEB.<br>10... | 1230 | 7840                                     | 7.4           | 10.5                        | 9.9                                |
| MAY<br>11...  | 0945 | 5160                                     | 7.3           | 21.0                        | 6.7                                |
| AUG.<br>10... | 0945 | 5460                                     | 7.5           | 26.5                        | 7.3                                |

| DATE          | ALKA-<br>LITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) |
|---------------|----------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| DEC.<br>09... | 25                                     | .23                                                  | .05                                                | .03                                       | 23                                 |
| FEB.<br>10... | 29                                     | .33                                                  | .11                                                | .05                                       | 31                                 |
| MAY<br>11...  | 45                                     | .29                                                  | .03                                                | .03                                       | 50                                 |
| AUG.<br>10... | 28                                     | .25                                                  | .10                                                | .04                                       | 29                                 |

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| DEC.<br>09... | 73                                                         | 40                                           | 11                           | .6                                                           | 430                                              | 4.0                                         |
| FEB.<br>10... | 85                                                         | 60                                           | 26                           | --                                                           | 36                                               | 5.0                                         |
| MAY<br>11...  | 115                                                        | 30                                           | 12                           | .8                                                           | 150                                              | 12                                          |
| AUG.<br>10... | 81                                                         | 25                                           | 9                            | --                                                           | --                                               | 6.0                                         |



## 02353500 ICHAWAYNOCHAWAY CREEK AT MILFORD, GA.

LOCATION.--Lat 31°22'58", long 84°32'32", Baker County, 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 mi<sup>2</sup> (1,610 km<sup>2</sup>), 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 fair. Moderate diurnal fluctuation at low flow.

AVERAGE DISCHARGE.--39 years, 801 ft<sup>3</sup>/s (22.7 m<sup>3</sup>/s), 17.54 in/yr (445.5 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,100 ft<sup>3</sup>/s (286 m<sup>3</sup>/s) Jan. 21, 1943, gage height, 13.9 ft (4.24 m); minimum, 116 ft<sup>3</sup>/s (3.29 m<sup>3</sup>/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 ft<sup>3</sup>/s (439 m<sup>3</sup>/s), from rating curve extended above 10,000 ft<sup>3</sup>/s (283 m<sup>3</sup>/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft<sup>3</sup>/s (850 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Jan. 30 | 0100 | 3290 93.2                                             | 6.44 1.963              | May 17 | 0100 | *3830 108                                             | 7.23 2.204              |

Minimum discharge, 248 ft<sup>3</sup>/s (7.02 m<sup>3</sup>/s) Aug. 25.

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

| DAY         | OCT   | NOV    | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 415   | 433    | 555   | 747   | 1940  | 623   | 1100  | 682   | 740   | 574   | 325   | 360   |
| 2           | 489   | 423    | 614   | 830   | 1410  | 611   | 1700  | 1070  | 805   | 576   | 315   | 335   |
| 3           | 520   | 417    | 674   | 867   | 1170  | 594   | 1800  | 1510  | 994   | 725   | 430   | 345   |
| 4           | 517   | 417    | 741   | 814   | 1070  | 592   | 1200  | 1550  | 1140  | 701   | 630   | 408   |
| 5           | 483   | 420    | 715   | 775   | 969   | 592   | 890   | 1020  | 1380  | 670   | 478   | 430   |
| 6           | 463   | 420    | 660   | 724   | 907   | 596   | 740   | 638   | 1550  | 687   | 406   | 578   |
| 7           | 501   | 416    | 591   | 661   | 867   | 607   | 640   | 529   | 1390  | 793   | 365   | 712   |
| 8           | 616   | 465    | 551   | 678   | 836   | 636   | 580   | 751   | 1020  | 738   | 340   | 876   |
| 9           | 767   | 524    | 542   | 840   | 794   | 670   | 540   | 1160  | 714   | 612   | 365   | 876   |
| 10          | 860   | 549    | 549   | 970   | 750   | 704   | 510   | 887   | 603   | 554   | 401   | 808   |
| 11          | 755   | 587    | 543   | 1070  | 721   | 709   | 490   | 684   | 572   | 507   | 428   | 539   |
| 12          | 608   | 660    | 532   | 969   | 702   | 690   | 470   | 608   | 534   | 456   | 405   | 439   |
| 13          | 533   | 958    | 518   | 849   | 690   | 669   | 460   | 566   | 513   | 425   | 340   | 383   |
| 14          | 481   | 1680   | 510   | 768   | 684   | 645   | 460   | 761   | 491   | 400   | 330   | 350   |
| 15          | 457   | 1900   | 508   | 742   | 684   | 729   | 470   | 2190  | 471   | 367   | 310   | 335   |
| 16          | 439   | 1300   | 510   | 737   | 667   | 889   | 470   | 3350  | 451   | 345   | 340   | 360   |
| 17          | 462   | 826    | 516   | 709   | 655   | 1180  | 460   | 3610  | 433   | 320   | 335   | 360   |
| 18          | 637   | 670    | 581   | 660   | 648   | 1620  | 440   | 3040  | 417   | 300   | 375   | 335   |
| 19          | 772   | 581    | 617   | 612   | 644   | 1720  | 420   | 2310  | 405   | 300   | 376   | 315   |
| 20          | 840   | 546    | 606   | 583   | 646   | 1160  | 400   | 1640  | 458   | 305   | 335   | 305   |
| 21          | 730   | 543    | 570   | 573   | 678   | 836   | 400   | 1080  | 520   | 320   | 305   | 295   |
| 22          | 606   | 541    | 541   | 568   | 758   | 795   | 400   | 818   | 573   | 315   | 280   | 290   |
| 23          | 518   | 537    | 522   | 566   | 941   | 857   | 390   | 1170  | 634   | 295   | 270   | 285   |
| 24          | 483   | 530    | 512   | 566   | 1080  | 860   | 380   | 1580  | 566   | 290   | 256   | 305   |
| 25          | 467   | 525    | 507   | 562   | 1120  | 766   | 380   | 1990  | 527   | 290   | 248   | 305   |
| 26          | 460   | 523    | 558   | 597   | 922   | 686   | 425   | 2280  | 508   | 295   | 260   | 370   |
| 27          | 454   | 526    | 682   | 1090  | 764   | 715   | 535   | 2060  | 463   | 420   | 295   | 443   |
| 28          | 448   | 561    | 746   | 1890  | 671   | 952   | 629   | 1410  | 429   | 448   | 360   | 461   |
| 29          | 446   | 574    | 767   | 2890  | 640   | 1110  | 555   | 1040  | 473   | 350   | 378   | 576   |
| 30          | 442   | 561    | 707   | 3210  | ---   | 1140  | 490   | 921   | 503   | 340   | 395   | 827   |
| 31          | 437   | ---    | 697   | 2680  | ---   | 999   | ---   | 821   | ---   | 330   | 397   | ---   |
| TOTAL       | 17106 | 19613  | 18442 | 30797 | 25028 | 25952 | 18824 | 43726 | 20277 | 14048 | 11073 | 13606 |
| MEAN        | 552   | 654    | 595   | 993   | 863   | 837   | 627   | 1411  | 676   | 453   | 357   | 454   |
| MAX         | 860   | 1900   | 767   | 3210  | 1940  | 1720  | 1800  | 3610  | 1550  | 793   | 630   | 876   |
| MIN         | 415   | 416    | 507   | 562   | 640   | 592   | 380   | 529   | 405   | 290   | 248   | 285   |
| CFSM        | .89   | 1.05   | .96   | 1.60  | 1.39  | 1.35  | 1.01  | 2.28  | 1.09  | .73   | .58   | .73   |
| IN.         | 1.03  | 1.18   | 1.11  | 1.85  | 1.50  | 1.56  | 1.13  | 2.62  | 1.22  | .84   | .66   | .82   |
| CAL YR 1975 | TOTAL | 385272 | MEAN  | 1056  | MAX   | 8260  | MIN   | 365   | CFSM  | 1.70  | IN    | 23.12 |
| WTR YR 1976 | TOTAL | 258492 | MEAN  | 706   | MAX   | 3610  | MIN   | 248   | CFSM  | 1.14  | IN    | 15.51 |

## 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 1975 TO SEPTEMBER 1976

| DATE       | TIME | INSTANTANEOUS DISCHARGE (CFS) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | DIS-SOLVED OXYGEN (MG/L) |
|------------|------|-------------------------------|----------------------------------|------------|---------------------|--------------------------|
| MAR. 28... | 1130 | 958                           | --                               | 7.0        | 17.0                | 8.0                      |
| MAY 22...  | 1630 | 827                           | 108                              | 6.5        | 19.3                | 6.9                      |

| DATE       | DIS-SOLVED SILICA (SI02) (MG/L) | DIS-SOLVED ALUMINUM (AL) (UG/L) | DIS-SOLVED IRON (FE) (UG/L) | DIS-SOLVED MANGANESE (MN) (UG/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) |
|------------|---------------------------------|---------------------------------|-----------------------------|----------------------------------|--------------------------------|----------------------------------|-------------------------------|---------------------------------|---------------------------|------------------------|----------------------------|
| MAR. 28... | 5.2                             | 20                              | 200                         | 10                               | 9.8                            | .8                               | 2.0                           | .6                              | 28                        | 0                      | 23                         |
| MAY 22...  | 6.1                             | 30                              | 280                         | 20                               | 14                             | .5                               | 2.1                           | .7                              | 38                        | 0                      | 31                         |

| DATE       | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLORIDE (CL) (MG/L) | DIS-SOLVED FLUORIDE (F) (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 AMMONIA NITROGEN (N) (MG/L) | DIS-SOLVED AMMONIA NITROGEN (N) (MG/L) |
|------------|---------------------------------|---------------------------------|--------------------------------|-------------------------------|---------------------------------|-------------------------------|---------------------------------|---------------------------------------|--------------------------------------------|-----------------------------------|----------------------------------------|
| MAR. 28... | 1.2                             | 3.9                             | .0                             | .19                           | .84                             | .00                           | .00                             | .21                                   | .19                                        | .02                               | .02                                    |
| MAY 22...  | 3.8                             | 5.6                             | .1                             | .41                           | 1.8                             | .01                           | .03                             | .41                                   | .42                                        | .02                               | .05                                    |

| DATE       | DIS-SOLVED AMMONIA (NH4) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL 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 ORTHOPHOSPHORUS (P) (MG/L) | DIS-SOLVED ORTHOPHOSPHATE (PO4) (MG/L) | DIS-SOLVED ORTHOPHOSPHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) |
|------------|---------------------------------|-----------------------------------|------------------------------------|---------------------------|-----------------------------|-----------------------------|----------------------------------|----------------------------------|----------------------------------------|---------------------------------------|---------------------------------------------|
| MAR. 28... | .03                             | .34                               | .36                                | .57                       | 2.5                         | .04                         | .01                              | .01                              | .00                                    | .00                                   | 60                                          |
| MAY 22...  | .06                             | 1.3                               | 1.3                                | 1.7                       | 7.6                         | .03                         | .01                              | .02                              | .00                                    | .00                                   | 50                                          |

| DATE       | HARDNESS (CA, MG) (MG/L) | NON-CARBONATE HARDNESS (MG/L) | COLOR (PLATINUM-COBALT UNITS) | DIS-SOLVED ARSENIC (AS) (UG/L) | DIS-SOLVED CADMIUM (CD) (UG/L) | DIS-SOLVED CHROMIUM (CR) (UG/L) | DIS-SOLVED COPPER (CU) (UG/L) | DIS-SOLVED LEAD (PB) (UG/L) | DIS-SOLVED MERCURY (HG) (UG/L) | DIS-SOLVED SELENIUM (SE) (UG/L) | DIS-SOLVED ZINC (ZN) (UG/L) |
|------------|--------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|---------------------------------|-------------------------------|-----------------------------|--------------------------------|---------------------------------|-----------------------------|
| MAR. 28... | 28                       | 5                             | 90                            | 0                              | 1                              | 0                               | 0                             | 10                          | .2                             | 0                               | 0                           |
| MAY 22...  | 37                       | 6                             | 110                           | 0                              | 0                              | 0                               | 16                            | 0                           | .0                             | 0                               | 10                          |

## APALACHICOLA RIVER BASIN

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02356015 FLINT RIVER BELOW BAINBRIDGE, GA.

LOCATION.--Lat 30°53'34", long 84°36'38", Decatur County, at Bainbridge, 0.8 mi (1.3 km) downstream from State Docks, and at mile 26.5 (42.6 km).

DRAINAGE AREA.--7,570 mi<sup>2</sup> (19,600 km<sup>2</sup>), approximately.

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

REMARKS.--Flow regulated by powerplants at Flint River and Warwick Reservoirs (see remarks for station 02353000). 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 1975 TO SEPTEMBER 1976

| DATE          | TIME | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|---------------|-----------------------------|------------------------------------|
| OCT.<br>08... | 1230 | 7.7           | 21.5                        | 5.6                                |
| DEC.<br>09... | 0945 | 7.2           | 14.0                        | 7.1                                |
| JAN.<br>07... | 1245 | 7.2           | 9.0                         | 9.9                                |
| FEB.<br>10... | 1030 | 7.4           | 11.0                        | 9.9                                |
| MAR.<br>10... | 1215 | 6.6           | 17.0                        | 8.1                                |
| MAY<br>11...  | 0630 | 7.1           | 20.0                        | 7.2                                |
| JUNE<br>09... | 1140 | 7.4           | 22.0                        | 7.9                                |
| JULY<br>08... | 1200 | 6.5           | 25.0                        | 6.7                                |
| AUG.<br>10... | 0815 | 6.6           | 26.5                        | 7.0                                |
| SEP.<br>15... | 1330 | 6.9           | 22.5                        | 7.8                                |

| DATE          | ALKA-<br>LINITY<br>AS<br>CACO <sub>3</sub><br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) |
|---------------|------------------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|
| OCT.<br>08... | 49                                                   | .48                                                  | .23                                                | .21                                       | 47                                  |
| DEC.<br>09... | 40                                                   | .50                                                  | .15                                                | .03                                       | 41                                  |
| JAN.<br>07... | 25                                                   | .37                                                  | .04                                                | .03                                       | 25                                  |
| FEB.<br>10... | 38                                                   | .45                                                  | .08                                                | .04                                       | 40                                  |
| MAR.<br>10... | 51                                                   | .59                                                  | .16                                                | .07                                       | 22                                  |
| MAY<br>11...  | 40                                                   | .67                                                  | .25                                                | .05                                       | 45                                  |
| JUNE<br>09... | 40                                                   | .53                                                  | <.02                                               | .04                                       | 42                                  |
| JULY<br>08... | 32                                                   | .43                                                  | .04                                                | .05                                       | 36                                  |
| AUG.<br>10... | 44                                                   | .44                                                  | .10                                                | .03                                       | 44                                  |
| SEP.<br>15... | 51                                                   | .68                                                  | .05                                                | .04                                       | 52                                  |

## APALACHICOLA RIVER BASIN

02356015 FLINT RIVER BELOW BAINBRIDGE, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>08... | 116                                                        | 25                                           | 31                           | .9                                                           | 2300                                             | 18                                          |
| DEC.<br>09... | 103                                                        | 30                                           | 8                            | .5                                                           | 150                                              | 3.0                                         |
| JAN.<br>07... | 75                                                         | 35                                           | 10                           | .4                                                           | 91                                               | 3.0                                         |
| FEB.<br>10... | 98                                                         | 50                                           | 20                           | .6                                                           | 91                                               | 4.0                                         |
| MAR.<br>10... | 130                                                        | 10                                           | 6                            | 1.7                                                          | 91                                               | 1.0                                         |
| MAY<br>11...  | 103                                                        | 45                                           | 21                           | .9                                                           | 930                                              | 15                                          |
| JUNE<br>09... | 100                                                        | 40                                           | 13                           | .6                                                           | 930                                              | 4.0                                         |
| JULY<br>08... | 88                                                         | 90                                           | 15                           | .6                                                           | 430                                              | 6.0                                         |
| AUG.<br>10... | 113                                                        | 10                                           | 7                            | --                                                           | --                                               | 2.0                                         |
| SEP.<br>15... | 125                                                        | 8                                            | 5                            | .4                                                           | 7500                                             | 3.0                                         |

## LAKES AND RESERVOIRS IN APALACHICOLA RIVER BASIN

02334400 LAKE SIDNEY LANIER.--Lat 34°04'30", long 84°04'20", Forsyth County, 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 mi<sup>2</sup> (2,690 km<sup>2</sup>), 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 hm<sup>3</sup>) between elevations 1,035 and 1,085 ft (315.5 and 330.7 m). Dead storage, 868,000 acre-ft (1,070 hm<sup>3</sup>). 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 hm<sup>3</sup>) Apr. 14, 1965, elevation, 1,077.20 ft (328.331 m); minimum, after beginning operation, 1,480,800 acre-ft (1,830 hm<sup>3</sup>) Dec. 18, 1970, elevation, 1,057.53 ft (322.335 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 2,147,600 acre-ft (2,650 hm<sup>3</sup>) Apr. 2, elevation, 1,075.82 ft (327.910 m); minimum, 1,778,500 acre-ft (2,190 hm<sup>3</sup>) Sept. 30, elevation, 1,066.26 ft (324.996 m).

02339400 WEST POINT LAKE.--Lat 32°55'05", long 85°11'17", Troup County, 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 mi<sup>2</sup> (8,910 km<sup>2</sup>), 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 hm<sup>3</sup>). Capacity at elevation, 635 ft (193.55 m), maximum power pool, 604,500 acre-ft (745 hm<sup>3</sup>). Dead storage below elevation 620 ft (188.98 m), minimum power pool, 298,400 acre-ft (368 hm<sup>3</sup>). 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 hm<sup>3</sup>) Mar. 19, 1976, elevation, 637.00 ft (194.158 m); minimum, since first filling, 361,400 acre-ft (446 hm<sup>3</sup>), Jan. 9, 1976, elevation, 623.78 ft (190.128 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 657,900 acre-ft (811 hm<sup>3</sup>) Mar. 19, elevation, 637.00 ft (194.158 m); minimum, 361,400 acre-ft (446 hm<sup>3</sup>) Jan. 9, elevation, 623.78 ft (190.128 m).

02341000 BARTLETTS FERRY RESERVOIR (LAKE HARDING).--Lat 32°39'46", long 85°05'27", Harris County, 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 mi<sup>2</sup> (11,000 km<sup>2</sup>), 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 hm<sup>3</sup>), of which 136,000 acre-ft (168 hm<sup>3</sup>) 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 1975 TO SEPTEMBER 1976

|               | Elevation<br>(feet) | Contents<br>(acre-<br>feet) | Change in<br>contents<br>(acre-feet) | Elevation<br>(feet) | Contents<br>(acre-<br>feet) | Change in<br>contents<br>(acre-feet) | Elevation<br>(feet) | Contents<br>(acre-<br>feet) | Change in<br>contents<br>(acre-feet) |
|---------------|---------------------|-----------------------------|--------------------------------------|---------------------|-----------------------------|--------------------------------------|---------------------|-----------------------------|--------------------------------------|
|               | 02334400            | LAKE SIDNEY LANIER          |                                      | 02339400            | WEST POINT LAKE             |                                      | 02341000            | BARTLETTS FERRY RESERVOIR   |                                      |
| Sept. 30..... | 1070.50             | 1936000                     | -                                    | 643.10              | 581600                      | -                                    | 520.5               | 178000                      | -                                    |
| Oct. 31.....  | 1070.90             | 1951300                     | +15300                               | 633.44              | 565200                      | -16400                               | 520.2               | 176000                      | -2000                                |
| Nov. 30.....  | 1070.36             | 1930700                     | -20600                               | 629.00              | 463300                      | -101900                              | 518.4               | 165000                      | -11000                               |
| Dec. 31.....  | 1070.00             | 1917000                     | -13700                               | 627.27              | 427500                      | -35800                               | 516.5               | 154000                      | -11000                               |
| CAL YR 1975   | -                   | -                           | +257500                              | -                   | -                           | +184000                              | -                   | -                           | -23000                               |
| Jan. 31.....  | 1071.05             | 1957200                     | +40200                               | 631.80              | 525900                      | +98400                               | 520.9               | 180000                      | +26000                               |
| Feb. 29.....  | 1070.53             | 1937100                     | -20100                               | 626.50              | 412200                      | -113700                              | 517.9               | 162000                      | -18000                               |
| Mar. 31.....  | 1075.45             | 2132400                     | +195300                              | 630.28              | 491200                      | +79000                               | 520.6               | 179000                      | +17000                               |
| Apr. 30.....  | 1071.18             | 1962200                     | -170200                              | 635.00              | 604500                      | +113300                              | 518.8               | 168000                      | -11000                               |
| May 31.....   | 1073.45             | 2051600                     | +89400                               | 636.20              | 636200                      | +31700                               | 519.5               | 172000                      | +4000                                |
| June 30.....  | 1071.43             | 1972000                     | -79600                               | 635.20              | 609800                      | -26400                               | 520.5               | 178000                      | +6000                                |
| July 31.....  | 1070.73             | 1944700                     | -27300                               | 633.30              | 561800                      | -48000                               | 520.3               | 177000                      | -1000                                |
| Aug. 31.....  | 1068.37             | 1855900                     | -88800                               | 631.80              | 525900                      | -35900                               | 519.7               | 173000                      | -4000                                |
| Sept. 30..... | 1066.27             | 1778800                     | -77100                               | 630.50              | 496100                      | -29800                               | 520.2               | 176000                      | +3000                                |
| WTR YR 1976   | -                   | -                           | -157200                              | -                   | -                           | -85500                               | -                   | -                           | -2000                                |

## LAKES AND RESERVOIRS IN APALACHICOLA RIVER BASIN--Continued

02343240 WALTER F. GEORGE LAKE.--Lat 31°37'27", long 85°04'03", Clay County, 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 mi<sup>2</sup> (19,300 km<sup>2</sup>), 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 hm<sup>3</sup>), of which 244,400 acre-ft (301 hm<sup>3</sup>) 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 hm<sup>3</sup>) May 20, 1969, elevation, 191.28 ft (58.302 m); minimum, after first filling, 660,400 acre-ft (814 hm<sup>3</sup>) Apr. 23, 1965, elevation, 183.17 ft (55.830 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 988,400 acre-ft (1,220 hm<sup>3</sup>) June 4, elevation, 191.17 ft (58.269 m); minimum, 719,500 acre-ft (887 hm<sup>3</sup>) Dec. 12, elevation, 184.80 ft (56.327 m).

02357500 LAKE SEMINOLE.--Lat 30°42'33", long 84°51'45", Gadsden County, Fla., 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 mi<sup>2</sup> (44,300 km<sup>2</sup>), 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 hm<sup>3</sup>), of which 36,170 acre-ft (44.6 hm<sup>3</sup>) 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 hm<sup>3</sup>) Apr. 7, 8, 1960, elevation, 78.66 ft (23.976 m); minimum after Feb. 4, 1957, 278,000 acre-ft (343 hm<sup>3</sup>) Nov. 4, 1968, elevation, 74.40 ft (22.677 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 397,400 acre-ft (490 hm<sup>3</sup>) Dec. 19, elevation, 77.78 ft (23.707 m); minimum, 351,400 acre-ft (433 hm<sup>3</sup>), elevation, 76.57 ft (23.339 m).

## MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| Date                           | Elevation<br>(feet) | Contents<br>(acre-feet) | Change in<br>contents<br>(acre-feet) | Elevation<br>(feet)    | Contents<br>(acre-feet) | Change in<br>contents<br>(acre-feet) |
|--------------------------------|---------------------|-------------------------|--------------------------------------|------------------------|-------------------------|--------------------------------------|
| 02343240 WALTER F. GEORGE LAKE |                     |                         |                                      | 02357500 LAKE SEMINOLE |                         |                                      |
| Sept. 30.....                  | 189.10              | 894400                  | -                                    | 77.04                  | 368800                  | -                                    |
| Oct. 31.....                   | 189.33              | 904500                  | +10100                               | 77.44                  | 384100                  | +15300                               |
| Nov. 30.....                   | 187.00              | 805500                  | -99000                               | 77.20                  | 374900                  | -9200                                |
| Dec. 31.....                   | 185.93              | 762900                  | -42600                               | 77.41                  | 382900                  | +8000                                |
| CAL YR 1975                    | -                   | -                       | +24800                               | -                      | -                       | 0                                    |
| Jan. 31.....                   | 185.00              | 727100                  | -35800                               | 77.66                  | 392700                  | +9800                                |
| Feb. 29.....                   | 185.90              | 761700                  | +34600                               | 77.08                  | 370300                  | -22400                               |
| Mar. 31.....                   | 186.50              | 785400                  | +23700                               | 77.17                  | 373700                  | +3400                                |
| Apr. 30.....                   | 189.20              | 898800                  | +113400                              | 77.28                  | 377900                  | +4200                                |
| May 31.....                    | 190.60              | 961800                  | +63000                               | 77.48                  | 385600                  | +7700                                |
| June 30.....                   | 189.80              | 925400                  | -36400                               | 77.53                  | 387600                  | +2000                                |
| July 31.....                   | 189.40              | 907600                  | -17800                               | 77.45                  | 384500                  | -3100                                |
| Aug. 31.....                   | 188.60              | 872600                  | -35000                               | 77.46                  | 384900                  | +400                                 |
| Sept. 30.....                  | 187.50              | 826100                  | -46500                               | 77.48                  | 385600                  | +700                                 |
| WTR YR 1976                    | -                   | -                       | -68300                               | -                      | -                       | +16800                               |

## 02379500 CARTECAY RIVER NEAR ELLIJAY, GA.

LOCATION.--Lat 34°40'53", long 84°27'20", Gilmer County, 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 mi<sup>2</sup> (350 km<sup>2</sup>).

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

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.--39 years, 288 ft<sup>3</sup>/s (8.16 m<sup>3</sup>/s), 28.97 in/yr (735.8 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 20,000 ft<sup>3</sup>/s (566 m<sup>3</sup>/s) Apr. 8, 1938, gage height, 13.0 ft (3.96 m), from floodmark, from rating curve extended above 3,900 ft<sup>3</sup>/s (110 m<sup>3</sup>/s), on basis of slope-area measurement of peak flow; minimum daily, 64 ft<sup>3</sup>/s (1.81 m<sup>3</sup>/s) Oct. 26, 1941.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft<sup>3</sup>/s (56.6 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Oct. 1  | 1615 | 2630 74.5                                             | 5.07 1.545              | Mar. 31 | 0930 | 2550 72.2                                             | 4.90 1.494              |
| Oct. 17 | 1630 | 2470 70.0                                             | 4.89 1.490              | May 15  | 1000 | *4640 131                                             | 6.49 1.978              |
| Jan. 26 | 1200 | 2020 57.2                                             | 4.44 1.353              | June 19 | 1900 | 2050 58.1                                             | 4.53 1.381              |
| Mar. 13 | 0130 | 2570 72.8                                             | 4.95 1.509              | July 4  | 2045 | 2440 69.1                                             | 4.90 1.494              |
| Mar. 30 | 0745 | 2320 65.7                                             | 4.70 1.433              |         |      |                                                       |                         |

Minimum discharge, 128 ft<sup>3</sup>/s (3.62 m<sup>3</sup>/s) Oct. 1, gage height, 1.66 ft (0.506 m).

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

| DAY         | OCT   | NOV    | DEC      | JAN      | FEB     | MAR       | APR      | MAY   | JUN   | JUL   | AUG  | SEP  |
|-------------|-------|--------|----------|----------|---------|-----------|----------|-------|-------|-------|------|------|
| 1           | 1350  | 190    | 489      | 602      | 445     | 281       | 1410     | 481   | 561   | 512   | 262  | 179  |
| 2           | 901   | 189    | 323      | 407      | 422     | 277       | 960      | 386   | 550   | 360   | 251  | 180  |
| 3           | 347   | 189    | 287      | 711      | 380     | 278       | 802      | 338   | 526   | 405   | 239  | 176  |
| 4           | 268   | 188    | 272      | 551      | 354     | 272       | 724      | 340   | 522   | 1420  | 230  | 171  |
| 5           | 237   | 184    | 259      | 408      | 331     | 302       | 662      | 338   | 479   | 1470  | 228  | 178  |
| 6           | 225   | 180    | 252      | 356      | 324     | 534       | 625      | 332   | 438   | 835   | 233  | 170  |
| 7           | 207   | 429    | 247      | 447      | 325     | 352       | 596      | 487   | 413   | 881   | 262  | 165  |
| 8           | 251   | 317    | 242      | 555      | 309     | 303       | 578      | 381   | 402   | 616   | 241  | 156  |
| 9           | 246   | 240    | 240      | 403      | 314     | 381       | 547      | 347   | 426   | 548   | 223  | 156  |
| 10          | 209   | 274    | 232      | 356      | 301     | 352       | 529      | 335   | 421   | 496   | 221  | 163  |
| 11          | 193   | 244    | 226      | 363      | 308     | 330       | 518      | 438   | 451   | 428   | 210  | 154  |
| 12          | 182   | 589    | 219      | 382      | 302     | 616       | 509      | 360   | 410   | 405   | 209  | 150  |
| 13          | 174   | 644    | 210      | 381      | 300     | 1490      | 493      | 344   | 375   | 384   | 217  | 146  |
| 14          | 169   | 378    | 209      | 510      | 296     | 692       | 470      | 504   | 356   | 359   | 209  | 144  |
| 15          | 166   | 307    | 211      | 399      | 292     | 550       | 469      | 2910  | 336   | 353   | 206  | 148  |
| 16          | 187   | 278    | 275      | 372      | 285     | 1260      | 455      | 1510  | 328   | 356   | 231  | 146  |
| 17          | 1210  | 259    | 249      | 346      | 277     | 857       | 431      | 1050  | 324   | 359   | 208  | 144  |
| 18          | 974   | 247    | 224      | 321      | 405     | 614       | 426      | 706   | 400   | 332   | 192  | 141  |
| 19          | 565   | 240    | 208      | 301      | 387     | 549       | 410      | 590   | 824   | 319   | 190  | 138  |
| 20          | 346   | 254    | 209      | 296      | 318     | 553       | 410      | 548   | 1410  | 319   | 180  | 148  |
| 21          | 305   | 404    | 210      | 295      | 313     | 891       | 416      | 524   | 626   | 317   | 180  | 169  |
| 22          | 278   | 292    | 205      | 291      | 465     | 625       | 413      | 488   | 446   | 303   | 178  | 150  |
| 23          | 262   | 291    | 200      | 284      | 366     | 554       | 384      | 464   | 385   | 311   | 216  | 144  |
| 24          | 248   | 283    | 196      | 285      | 336     | 524       | 381      | 446   | 348   | 304   | 263  | 142  |
| 25          | 238   | 264    | 227      | 292      | 315     | 515       | 425      | 428   | 349   | 285   | 194  | 140  |
| 26          | 232   | 248    | 426      | 1290     | 309     | 486       | 386      | 377   | 520   | 279   | 187  | 144  |
| 27          | 231   | 258    | 306      | 903      | 302     | 637       | 353      | 387   | 416   | 281   | 221  | 166  |
| 28          | 221   | 248    | 264      | 552      | 295     | 534       | 358      | 733   | 401   | 306   | 205  | 188  |
| 29          | 217   | 237    | 246      | 460      | 290     | 502       | 335      | 858   | 379   | 278   | 232  | 169  |
| 30          | 203   | 251    | 256      | 416      | ---     | 1610      | 319      | 745   | 661   | 277   | 203  | 177  |
| 31          | 191   | ---    | 646      | 384      | ---     | 1910      | ---      | 610   | ---   | 278   | 181  | ---  |
| TOTAL       | 11033 | 8596   | 8265     | 13919    | 9666    | 19631     | 15794    | 18785 | 14483 | 14376 | 6702 | 4742 |
| MEAN        | 356   | 287    | 267      | 449      | 333     | 633       | 526      | 606   | 483   | 464   | 216  | 158  |
| MAX         | 1350  | 644    | 646      | 1290     | 465     | 1910      | 1410     | 2910  | 1410  | 1470  | 263  | 188  |
| MIN         | 166   | 180    | 196      | 284      | 277     | 272       | 319      | 332   | 324   | 277   | 178  | 138  |
| CFSM        | 2.64  | 2.13   | 1.98     | 3.33     | 2.47    | 4.69      | 3.90     | 4.49  | 3.58  | 3.44  | 1.60 | 1.17 |
| IN.         | 3.04  | 2.37   | 2.28     | 3.84     | 2.66    | 5.41      | 4.35     | 5.18  | 3.99  | 3.96  | 1.85 | 1.31 |
| CAL YR 1975 | TOTAL | 127701 | MEAN 350 | MAX 1670 | MIN 114 | CFSM 2.59 | IN 35.19 |       |       |       |      |      |
| WTR YR 1976 | TOTAL | 145992 | MEAN 399 | MAX 2910 | MIN 138 | CFSM 2.96 | IN 40.23 |       |       |       |      |      |



## 02380500 COOSAWATTEE RIVER NEAR ELLIJAY, GA.

LOCATION.--Lat 34°40'18", long 84°30'31", Gilmer County, 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 mi<sup>2</sup> (616 km<sup>2</sup>).

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.--24 years (1938-49, 1963-76), 519 ft<sup>3</sup>/s (14.7 m<sup>3</sup>/s), 29.61 in/yr (752.1 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,000 ft<sup>3</sup>/s (481 m<sup>3</sup>/s) Oct. 4, 1964, gage height, 17.63 ft (5.374 m); minimum, 101 ft<sup>3</sup>/s (2.68 m<sup>3</sup>/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 ft<sup>3</sup>/s (99.1 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Mar. 31 | 1730 | 4020 114                                              | 6.30 1.920              | July 4 | 2130 | 4140 117                                              | 6.43 1.960              |
| May 15  | 0815 | *6500 184                                             | 8.86 2.701              |        |      |                                                       |                         |

Minimum discharge, 214 ft<sup>3</sup>/s (6.06 m<sup>3</sup>/s) Sept. 26, gage height, 1.55 ft (0.472 m).

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

| DAY         | OCT   | NOV    | DEC      | JAN      | FEB     | MAR       | APR      | MAY   | JUN   | JUL   | AUG   | SEP  |
|-------------|-------|--------|----------|----------|---------|-----------|----------|-------|-------|-------|-------|------|
| 1           | 1710  | 305    | 832      | 1230     | 800     | 486       | 2400     | 740   | 693   | 967   | 477   | 291  |
| 2           | 1300  | 300    | 592      | 861      | 782     | 475       | 1650     | 624   | 686   | 778   | 454   | 310  |
| 3           | 622   | 296    | 520      | 1310     | 700     | 466       | 1390     | 555   | 673   | 784   | 434   | 295  |
| 4           | 466   | 293    | 478      | 1090     | 660     | 458       | 1260     | 524   | 680   | 2420  | 418   | 286  |
| 5           | 420   | 285    | 451      | 849      | 636     | 526       | 1100     | 510   | 628   | 2610  | 417   | 290  |
| 6           | 400   | 285    | 433      | 732      | 633     | 890       | 1020     | 510   | 598   | 1770  | 427   | 286  |
| 7           | 370   | 687    | 425      | 838      | 598     | 654       | 969      | 858   | 585   | 1690  | 504   | 271  |
| 8           | 463   | 554    | 409      | 1000     | 580     | 575       | 921      | 637   | 612   | 1260  | 448   | 264  |
| 9           | 466   | 411    | 406      | 785      | 566     | 782       | 876      | 557   | 699   | 1070  | 408   | 260  |
| 10          | 392   | 452    | 394      | 700      | 550     | 745       | 834      | 524   | 764   | 948   | 397   | 290  |
| 11          | 356   | 416    | 375      | 711      | 548     | 645       | 811      | 704   | 690   | 825   | 379   | 257  |
| 12          | 333   | 856    | 363      | 732      | 530     | 1010      | 799      | 588   | 590   | 771   | 365   | 250  |
| 13          | 313   | 1090   | 356      | 740      | 519     | 2040      | 766      | 537   | 560   | 726   | 381   | 242  |
| 14          | 301   | 702    | 350      | 1040     | 510     | 1140      | 745      | 769   | 552   | 680   | 366   | 242  |
| 15          | 291   | 556    | 351      | 841      | 496     | 939       | 725      | 4020  | 546   | 647   | 346   | 246  |
| 16          | 314   | 492    | 501      | 763      | 492     | 1740      | 705      | 2060  | 549   | 667   | 381   | 242  |
| 17          | 1540  | 454    | 428      | 710      | 487     | 1330      | 686      | 1390  | 544   | 663   | 343   | 232  |
| 18          | 1360  | 426    | 382      | 635      | 726     | 1040      | 664      | 1080  | 636   | 600   | 329   | 229  |
| 19          | 857   | 407    | 353      | 593      | 748     | 922       | 651      | 886   | 1370  | 576   | 315   | 224  |
| 20          | 573   | 446    | 349      | 580      | 590     | 921       | 639      | 784   | 2160  | 592   | 300   | 237  |
| 21          | 491   | 706    | 347      | 566      | 578     | 1540      | 645      | 728   | 1020  | 590   | 300   | 285  |
| 22          | 445   | 519    | 338      | 547      | 782     | 1180      | 638      | 691   | 791   | 558   | 293   | 242  |
| 23          | 413   | 511    | 329      | 529      | 658     | 997       | 601      | 687   | 696   | 554   | 421   | 228  |
| 24          | 389   | 492    | 322      | 531      | 596     | 906       | 587      | 678   | 643   | 536   | 470   | 224  |
| 25          | 371   | 457    | 402      | 556      | 566     | 870       | 660      | 638   | 608   | 512   | 328   | 219  |
| 26          | 362   | 432    | 742      | 2090     | 545     | 826       | 596      | 607   | 1190  | 500   | 317   | 232  |
| 27          | 356   | 447    | 561      | 1680     | 528     | 1020      | 567      | 600   | 862   | 501   | 367   | 265  |
| 28          | 342   | 423    | 475      | 1130     | 511     | 891       | 548      | 962   | 730   | 673   | 335   | 285  |
| 29          | 341   | 403    | 432      | 926      | 498     | 848       | 536      | 1030  | 808   | 517   | 363   | 260  |
| 30          | 334   | 430    | 454      | 822      | ---     | 2300      | 542      | 906   | 1390  | 521   | 323   | 280  |
| 31          | 313   | ---    | 1290     | 756      | ---     | 2960      | ---      | 758   | ---   | 510   | 295   | ---  |
| TOTAL       | 17004 | 14533  | 14440    | 26873    | 17413   | 32122     | 25531    | 27142 | 23553 | 27016 | 11701 | 7764 |
| MEAN        | 549   | 484    | 466      | 867      | 600     | 1036      | 851      | 876   | 785   | 871   | 377   | 259  |
| MAX         | 1710  | 1090   | 1290     | 2090     | 800     | 2960      | 2400     | 4020  | 2160  | 2610  | 504   | 310  |
| MIN         | 291   | 285    | 322      | 529      | 487     | 458       | 536      | 510   | 544   | 500   | 293   | 219  |
| CFSM        | 2.31  | 2.03   | 1.96     | 3.64     | 2.52    | 4.35      | 3.58     | 3.68  | 3.30  | 3.66  | 1.58  | 1.09 |
| IN.         | 2.66  | 2.27   | 2.26     | 4.20     | 2.72    | 5.02      | 3.99     | 4.24  | 3.68  | 4.22  | 1.83  | 1.21 |
| CAL YR 1975 | TOTAL | 221672 | MEAN 607 | MAX 3100 | MIN 195 | CFSM 2.55 | IN 34.65 |       |       |       |       |      |
| WTR YR 1976 | TOTAL | 245092 | MEAN 670 | MAX 4020 | MIN 219 | CFSM 2.82 | IN 38.31 |       |       |       |       |      |

## 02381600 FAUSETT CREEK NEAR TALKING ROCK, GA.

LOCATION.--Lat 34°34'13", long 84°28'08", Gilmer County, 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 mi<sup>2</sup> (25.9 km<sup>2</sup>).

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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,160 ft<sup>3</sup>/s (89.5 m<sup>3</sup>/s) May 29, 1973, gage height, 16.96 ft (5.169 m), from floodmarks; minimum daily, 4.8 ft<sup>3</sup>/s (0.136 m<sup>3</sup>/s) Nov. 29, Dec. 22, 23, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft<sup>3</sup>/s (8.50 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) |      | Gage height<br>(ft) (m) |       | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) |      | Gage height<br>(ft) (m) |       |
|---------|------|-------------------------------------------------------|------|-------------------------|-------|---------|------|-------------------------------------------------------|------|-------------------------|-------|
| Oct. 1  | 1100 | 436                                                   | 12.3 | 4.45                    | 1.356 | Mar. 31 | 0745 | 357                                                   | 10.1 | 4.01                    | 1.222 |
| Oct. 17 | 1015 | 328                                                   | 9.29 | 3.85                    | 1.173 | May 15  | 0330 | *1220                                                 | 34.6 | 8.17                    | 2.490 |
| Mar. 12 | 2345 | 496                                                   | 14.0 | 4.83                    | 1.472 | June 20 | 0030 | 396                                                   | 11.2 | 4.23                    | 1.289 |
| Mar. 16 | 0830 | 352                                                   | 9.97 | 3.98                    | 1.213 | Aug. 23 | 1515 | 309                                                   | 8.75 | 3.66                    | 1.116 |

Minimum discharge, 4.8 ft<sup>3</sup>/s (0.136 m<sup>3</sup>/s) Nov. 19, 20, gage height, 1.20 ft (0.366 m).

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

| DAY   | OCT   | NOV   | DEC   | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG   | SEP   |
|-------|-------|-------|-------|------|------|------|------|------|------|------|-------|-------|
| 1     | 135   | 9.4   | 37    | 44   | 22   | 17   | 75   | 26   | 21   | 23   | 12    | 10    |
| 2     | 25    | 9.4   | 21    | 29   | 21   | 16   | 52   | 19   | 22   | 18   | 11    | 10    |
| 3     | 14    | 9.0   | 16    | 69   | 21   | 16   | 44   | 18   | 21   | 24   | 11    | 9.9   |
| 4     | 11    | 9.0   | 14    | 47   | 20   | 16   | 41   | 17   | 20   | 127  | 11    | 9.8   |
| 5     | 12    | 9.0   | 13    | 33   | 20   | 18   | 37   | 17   | 18   | 70   | 10    | 9.6   |
| 6     | 11    | 8.0   | 12    | 27   | 19   | 31   | 34   | 16   | 18   | 51   | 12    | 9.5   |
| 7     | 10    | 28    | 12    | 47   | 18   | 22   | 33   | 30   | 17   | 45   | 13    | 9.3   |
| 8     | 15    | 15    | 12    | 44   | 18   | 20   | 31   | 19   | 17   | 31   | 11    | 9.1   |
| 9     | 12    | 12    | 12    | 30   | 17   | 24   | 30   | 17   | 17   | 26   | 11    | 8.9   |
| 10    | 10    | 23    | 11    | 28   | 17   | 21   | 28   | 16   | 17   | 23   | 9.8   | 8.7   |
| 11    | 8.9   | 16    | 9.9   | 24   | 17   | 19   | 28   | 25   | 16   | 21   | 8.9   | 8.4   |
| 12    | 8.6   | 102   | 9.3   | 23   | 17   | 84   | 27   | 18   | 15   | 20   | 8.7   | 8.2   |
| 13    | 8.1   | 40    | 8.9   | 25   | 17   | 114  | 26   | 17   | 15   | 19   | 8.7   | 7.9   |
| 14    | 7.7   | 17    | 9.0   | 27   | 17   | 39   | 26   | 96   | 14   | 18   | 8.2   | 7.7   |
| 15    | 7.5   | 11    | 9.1   | 24   | 17   | 42   | 25   | 350  | 13   | 17   | 15    | 7.5   |
| 16    | 12    | 8.5   | 23    | 23   | 17   | 142  | 24   | 53   | 13   | 18   | 10    | 7.2   |
| 17    | 96    | 6.7   | 14    | 21   | 17   | 52   | 23   | 39   | 13   | 17   | 9.0   | 7.0   |
| 18    | 31    | 5.5   | 12    | 19   | 31   | 39   | 23   | 35   | 13   | 16   | 8.4   | 6.6   |
| 19    | 19    | 5.0   | 11    | 18   | 24   | 33   | 22   | 30   | 39   | 15   | 7.8   | 6.4   |
| 20    | 15    | 16    | 10    | 18   | 21   | 32   | 21   | 28   | 70   | 16   | 7.3   | 9.8   |
| 21    | 13    | 24    | 10    | 18   | 23   | 52   | 23   | 26   | 23   | 15   | 7.4   | 9.5   |
| 22    | 12    | 14    | 9.6   | 17   | 27   | 36   | 22   | 24   | 20   | 14   | 7.6   | 7.9   |
| 23    | 11    | 14    | 9.2   | 17   | 22   | 32   | 20   | 24   | 18   | 14   | 31    | 7.5   |
| 24    | 10    | 11    | 8.7   | 17   | 20   | 29   | 20   | 24   | 17   | 13   | 14    | 7.1   |
| 25    | 9.8   | 10    | 15    | 17   | 19   | 28   | 23   | 22   | 16   | 13   | 11    | 6.2   |
| 26    | 9.9   | 9.3   | 25    | 120  | 19   | 27   | 20   | 21   | 22   | 12   | 11    | 7.6   |
| 27    | 9.8   | 12    | 16    | 50   | 18   | 42   | 19   | 21   | 19   | 14   | 12    | 9.6   |
| 28    | 9.6   | 9.8   | 14    | 34   | 18   | 32   | 18   | 34   | 17   | 15   | 12    | 8.3   |
| 29    | 9.8   | 9.0   | 12    | 29   | 17   | 35   | 18   | 30   | 18   | 13   | 12    | 10    |
| 30    | 9.7   | 22    | 15    | 26   | ---  | 141  | 19   | 26   | 39   | 14   | 11    | 9.3   |
| 31    | 9.6   | ---   | 61    | 23   | ---  | 192  | ---  | 22   | ---  | 13   | 10    | ---   |
| TOTAL | 583.0 | 494.6 | 471.7 | 988  | 571  | 1443 | 852  | 1160 | 618  | 765  | 342.8 | 254.5 |
| MEAN  | 18.8  | 16.5  | 15.2  | 31.9 | 19.7 | 46.5 | 28.4 | 37.4 | 20.6 | 24.7 | 11.1  | 8.48  |
| MAX   | 135   | 102   | 61    | 120  | 31   | 192  | 75   | 350  | 70   | 127  | 31    | 10    |
| MIN   | 7.5   | 5.0   | 8.7   | 17   | 17   | 16   | 18   | 16   | 13   | 12   | 7.3   | 6.2   |
| CFSM  | 1.88  | 1.65  | 1.52  | 3.19 | 1.97 | 4.65 | 2.84 | 3.74 | 2.06 | 2.47 | 1.11  | .85   |
| IN.   | 2.17  | 1.84  | 1.76  | 3.68 | 2.13 | 5.37 | 3.17 | 4.32 | 2.30 | 2.85 | 1.28  | .95   |

CAL YR 1975 TOTAL 7582.3 MEAN 20.8 MAX 146 MIN 5.0 CFSM 2.08 IN 28.23  
WTR YR 1976 TOTAL 8543.6 MEAN 23.3 MAX 350 MIN 5.0 CFSM 2.33 IN 31.81

02382200 TALKING ROCK CREEK NEAR HINTON, GA.

LOCATION.--Lat 34°31'22", long 84°36'40", Pickens County, on left bank 300 ft (91 m) downstream from Scarecorn Creek, and 3.3 mi (5.3 km) northwest of Hinton.

DRAINAGE AREA.--120 mi<sup>2</sup> (311 km<sup>2</sup>).

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, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,850 ft<sup>3</sup>/s (137 m<sup>3</sup>/s) Apr. 13, 1974, gage height, 8.45 ft (2.576 m); minimum, 35 ft<sup>3</sup>/s (0.99 m<sup>3</sup>/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 ft<sup>3</sup>/s (521 m<sup>3</sup>/s) from rating curve extended above 3,100 ft<sup>3</sup>/s (87.8 m<sup>3</sup>/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 ft<sup>3</sup>/s (70.8 m<sup>3</sup>/s), revised, and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Oct. 1  | 1400 | 3980 113                                              | 7.58 2.310              | Mar. 30 | 0745 | 3950 112                                              | 7.68 2.341              |
| Jan. 26 | 1215 | 2640 74.8                                             | 6.06 1.847              | Mar. 31 | 0900 | 3350 94.9                                             | 7.14 2.176              |
| Mar. 13 | 0100 | 3400 96.3                                             | 6.99 2.131              | May 15  | 0730 | *4600 130                                             | 8.25 2.515              |
| Mar. 16 | 0945 | 3390 96.0                                             | 6.99 2.131              |         |      |                                                       |                         |

Minimum discharge, 50 ft<sup>3</sup>/s (1.42 m<sup>3</sup>/s) Sept. 26, gage height, 1.05 ft (0.320 m).

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

| DAY   | OCT  | NOV  | DEC  | JAN   | FEB  | MAR   | APR  | MAY   | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|-------|------|-------|------|-------|------|------|------|------|
| 1     | 1650 | 103  | 486  | 442   | 316  | 173   | 1160 | 259   | 212  | 240  | 118  | 74   |
| 2     | 596  | 103  | 277  | 300   | 303  | 169   | 813  | 206   | 216  | 150  | 110  | 73   |
| 3     | 252  | 96   | 219  | 507   | 264  | 164   | 595  | 180   | 208  | 180  | 104  | 72   |
| 4     | 160  | 95   | 188  | 413   | 241  | 170   | 498  | 167   | 205  | 640  | 100  | 76   |
| 5     | 146  | 94   | 168  | 300   | 228  | 164   | 419  | 164   | 191  | 700  | 98   | 80   |
| 6     | 138  | 93   | 157  | 252   | 225  | 325   | 382  | 160   | 177  | 380  | 96   | 74   |
| 7     | 126  | 280  | 149  | 368   | 208  | 246   | 355  | 260   | 160  | 420  | 115  | 71   |
| 8     | 195  | 201  | 143  | 474   | 202  | 214   | 329  | 218   | 157  | 300  | 105  | 69   |
| 9     | 175  | 142  | 143  | 328   | 194  | 262   | 288  | 188   | 170  | 250  | 95   | 68   |
| 10    | 137  | 157  | 136  | 271   | 188  | 238   | 275  | 177   | 180  | 230  | 93   | 70   |
| 11    | 119  | 141  | 126  | 264   | 186  | 212   | 271  | 264   | 160  | 210  | 90   | 67   |
| 12    | 108  | 562  | 122  | 266   | 178  | 724   | 277  | 240   | 157  | 190  | 89   | 65   |
| 13    | 102  | 514  | 119  | 260   | 174  | 1690  | 257  | 198   | 154  | 180  | 94   | 63   |
| 14    | 98   | 280  | 117  | 310   | 170  | 518   | 253  | 317   | 148  | 175  | 88   | 62   |
| 15    | 94   | 207  | 117  | 266   | 166  | 494   | 245  | 2600  | 141  | 165  | 86   | 65   |
| 16    | 104  | 174  | 215  | 250   | 164  | 1790  | 238  | 795   | 135  | 168  | 100  | 60   |
| 17    | 880  | 154  | 174  | 233   | 164  | 809   | 232  | 535   | 132  | 180  | 92   | 57   |
| 18    | 461  | 141  | 147  | 203   | 354  | 487   | 225  | 382   | 127  | 160  | 86   | 55   |
| 19    | 266  | 132  | 131  | 189   | 324  | 393   | 221  | 298   | 334  | 150  | 83   | 54   |
| 20    | 191  | 154  | 128  | 189   | 241  | 367   | 218  | 254   | 571  | 146  | 79   | 58   |
| 21    | 157  | 305  | 126  | 185   | 240  | 630   | 224  | 231   | 289  | 150  | 76   | 75   |
| 22    | 138  | 204  | 122  | 177   | 331  | 447   | 223  | 219   | 216  | 138  | 74   | 62   |
| 23    | 125  | 197  | 119  | 170   | 264  | 368   | 206  | 216   | 198  | 141  | 90   | 57   |
| 24    | 116  | 181  | 115  | 170   | 234  | 328   | 205  | 244   | 164  | 132  | 120  | 54   |
| 25    | 112  | 165  | 140  | 169   | 216  | 311   | 237  | 188   | 144  | 123  | 90   | 52   |
| 26    | 109  | 151  | 270  | 1420  | 203  | 294   | 206  | 178   | 170  | 117  | 80   | 52   |
| 27    | 110  | 155  | 195  | 759   | 193  | 455   | 196  | 188   | 174  | 114  | 90   | 63   |
| 28    | 107  | 140  | 166  | 437   | 186  | 360   | 182  | 348   | 164  | 134  | 80   | 59   |
| 29    | 104  | 133  | 151  | 344   | 178  | 335   | 177  | 318   | 146  | 120  | 95   | 65   |
| 30    | 105  | 167  | 158  | 291   | ---  | 2140  | 181  | 289   | 307  | 128  | 84   | 74   |
| 31    | 103  | ---  | 569  | 261   | ---  | 2180  | ---  | 222   | ---  | 137  | 76   | ---  |
| TOTAL | 7284 | 5621 | 5593 | 10468 | 6535 | 17457 | 9588 | 10503 | 5907 | 6648 | 2876 | 1946 |
| MEAN  | 235  | 187  | 180  | 338   | 225  | 563   | 320  | 339   | 197  | 214  | 92.8 | 64.9 |
| MAX   | 1650 | 562  | 569  | 1420  | 354  | 2180  | 1160 | 2600  | 571  | 700  | 120  | 80   |
| MIN   | 94   | 93   | 115  | 169   | 164  | 164   | 177  | 160   | 127  | 114  | 74   | 52   |
| CFSM  | 1.96 | 1.56 | 1.50 | 2.82  | 1.88 | 4.69  | 2.67 | 2.83  | 1.64 | 1.78 | .77  | .54  |
| IN.   | 2.26 | 1.74 | 1.73 | 3.25  | 2.03 | 5.41  | 2.97 | 3.26  | 1.83 | 2.06 | .89  | .60  |

CAL YR 1975 TOTAL 82397 MEAN 226 MAX 1760 MIN 63 CFSM 1.88 IN 25.54  
WTR YR 1976 TOTAL 90426 MEAN 247 MAX 2600 MIN 52 CFSM 2.06 IN 28.03

NOTE.--Doubtful or no gage-height record May 1 to June 3,  
July 1-15, Aug. 2 to Sept. 30.

## 02382500 COOSAWATTEE RIVER AT CARTERS, GA.

LOCATION.--Lat 34°36'15", long 84°41'29", Murray County, 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 mi<sup>2</sup> (1,380 km<sup>2</sup>).

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 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, 9 discharge measurements, and computation of daily discharge furnished by Corps of Engineers; records reviewed by Geological Survey.

AVERAGE DISCHARGE.--29 years (1896-1908, 1918-23, 1961-71, 1974-76), 1,245 ft<sup>3</sup>/s (35.3 m<sup>3</sup>/s), 31.84 in/yr (808.7 mm/yr), adjusted for storage since 1975.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 28,500 ft<sup>3</sup>/s (807 m<sup>3</sup>/s) Nov. 19, 1906, gage height, 30.6 ft (9.33 m), present datum; minimum daily, 122 ft<sup>3</sup>/s (3.46 m<sup>3</sup>/s), regulated; minimum discharge observed prior to regulation, 184 ft<sup>3</sup>/s (5.21 m<sup>3</sup>/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 ft<sup>3</sup>/s (1,610 m<sup>3</sup>/s), from rating curve extended above 24,000 ft<sup>3</sup>/s (680 m<sup>3</sup>/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,750 ft<sup>3</sup>/s (163 m<sup>3</sup>/s) July 7, gage height, 13.65 ft (4.161 m); minimum daily, 210 ft<sup>3</sup>/s (5.95 m<sup>3</sup>/s) Sept. 10.

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

| DAY               | OCT    | NOV   | DEC   | JAN   | FEB      | MAR     | APR        | MAY        | JUN       | JUL   | AUG   | SEP   |
|-------------------|--------|-------|-------|-------|----------|---------|------------|------------|-----------|-------|-------|-------|
| 1                 | 984    | 485   | 1030  | 2020  | 2470     | 1340    | 4790       | 641        | 1550      | 2400  | 615   | 310   |
| 2                 | 1620   | 334   | 1240  | 1960  | 1490     | 2000    | 4850       | 1040       | 1990      | 3320  | 565   | 302   |
| 3                 | 2770   | 307   | 522   | 1900  | 1520     | 1260    | 4610       | 1090       | 2040      | 2830  | 382   | 314   |
| 4                 | 1880   | 477   | 904   | 1780  | 1950     | 773     | 2660       | 1600       | 2080      | 2410  | 302   | 396   |
| 5                 | 744    | 1080  | 915   | 1760  | 2190     | 2060    | 2190       | 1620       | 2040      | 2140  | 346   | 436   |
| 6                 | 991    | 2260  | 1480  | 1580  | 2020     | 1670    | 3500       | 1940       | 1070      | 2390  | 292   | 454   |
| 7                 | 1260   | 2880  | 1480  | 1920  | 2070     | 575     | 4700       | 1800       | 1370      | 4310  | 318   | 280   |
| 8                 | 1960   | 1820  | 1220  | 1880  | 2080     | 637     | 4560       | 1050       | 2430      | 4520  | 310   | 1390  |
| 9                 | 2180   | 725   | 2690  | 2750  | 2520     | 1190    | 4250       | 960        | 1270      | 3800  | 322   | 226   |
| 10                | 1520   | 497   | 3660  | 2930  | 2100     | 2160    | 2130       | 1020       | 1820      | 4100  | 445   | 210   |
| 11                | 1130   | 522   | 2480  | 1550  | 546      | 2550    | 689        | 1210       | 2950      | 3810  | 1530  | 284   |
| 12                | 682    | 598   | 1140  | 471   | 512      | 2630    | 2100       | 2040       | 1730      | 3440  | 1530  | 370   |
| 13                | 673    | 1280  | 619   | 433   | 1050     | 2720    | 3110       | 2050       | 870       | 3160  | 1570  | 346   |
| 14                | 1160   | 3510  | 598   | 477   | 2710     | 2490    | 3130       | 2240       | 615       | 1120  | 1550  | 882   |
| 15                | 1590   | 2480  | 580   | 1410  | 1440     | 2320    | 2970       | 3540       | 605       | 1740  | 1060  | 715   |
| 16                | 1590   | 401   | 562   | 1930  | 1270     | 2740    | 2210       | 3460       | 641       | 2110  | 250   | 436   |
| 17                | 1580   | 478   | 550   | 1930  | 1220     | 4240    | 993        | 3190       | 680       | 2040  | 741   | 409   |
| 18                | 1520   | 1080  | 574   | 2620  | 565      | 4540    | 600        | 3280       | 752       | 1010  | 744   | 370   |
| 19                | 1210   | 726   | 700   | 2930  | 565      | 4480    | 590        | 3380       | 770       | 575   | 274   | 374   |
| 20                | 628    | 489   | 1050  | 2900  | 1030     | 2610    | 1800       | 3580       | 1380      | 1110  | 281   | 519   |
| 21                | 1160   | 541   | 828   | 2780  | 2100     | 2390    | 3440       | 3770       | 1200      | 1390  | 342   | 1300  |
| 22                | 1340   | 550   | 788   | 1300  | 1130     | 1950    | 2460       | 3500       | 1110      | 2080  | 374   | 342   |
| 23                | 1510   | 970   | 646   | 604   | 2070     | 2580    | 1960       | 1570       | 2080      | 2110  | 923   | 634   |
| 24                | 1600   | 1540  | 562   | 592   | 1570     | 2890    | 1750       | 1530       | 2170      | 2100  | 2740  | 1410  |
| 25                | 1580   | 1310  | 541   | 568   | 698      | 2880    | 707        | 1580       | 2270      | 2040  | 3040  | 472   |
| 26                | 1470   | 457   | 580   | 655   | 527      | 2870    | 743        | 1550       | 2070      | 1500  | 2840  | 450   |
| 27                | 1410   | 465   | 664   | 1600  | 565      | 2760    | 800        | 888        | 1480      | 2190  | 2830  | 870   |
| 28                | 1180   | 882   | 637   | 3220  | 575      | 1670    | 600        | 680        | 1060      | 1360  | 1840  | 870   |
| 29                | 1200   | 1500  | 918   | 2770  | 565      | 2000    | 531        | 1600       | 1110      | 1160  | 653   | 495   |
| 30                | 1260   | 1310  | 1220  | 1930  | ---      | 4160    | 615        | 960        | 2040      | 999   | 897   | 512   |
| 31                | 854    | ---   | 1490  | 3050  | ---      | 4940    | ---        | 1360       | ---       | 400   | 631   | ---   |
| TOTAL             | 42236  | 31994 | 32868 | 56200 | 41118    | 76075   | 70038      | 59719      | 45243     | 69664 | 30537 | 16378 |
| MEAN              | 1362   | 1066  | 1060  | 1813  | 1418     | 2454    | 2335       | 1926       | 1508      | 2247  | 985   | 546   |
| MAX               | 2770   | 3510  | 3660  | 3220  | 2710     | 4940    | 4850       | 3770       | 2950      | 4520  | 3040  | 1410  |
| MIN               | 628    | 307   | 522   | 433   | 512      | 575     | 531        | 641        | 605       | 400   | 250   | 210   |
| (+)               | -26    | +13   | +23   | +42   | +108     | +168    | -341       | +176       | +24       | -304  | -164  | +45   |
| MEAN†             | 1336   | 1079  | 1083  | 1855  | 1526     | 2622    | 1994       | 2102       | 1532      | 1943  | 821   | 591   |
| CFSM‡             | 2.52   | 2.03  | 2.04  | 3.49  | 2.87     | 4.94    | 3.76       | 3.96       | 2.88      | 3.66  | 1.55  | 1.11  |
| IN‡               | 2.90   | 2.26  | 2.35  | 4.02  | 3.10     | 5.70    | 4.20       | 4.56       | 3.21      | 4.22  | 1.79  | 1.24  |
| CAL YR 1975 TOTAL | 332251 |       |       | 910   | MAX 3660 | MIN 195 | MEAN‡ 1400 | CFSM‡ 2.64 | IN‡ 35.84 |       |       |       |
| WTR YR 1976 TOTAL | 572070 |       |       | 1563  | MAX 4940 | MIN 210 | MEAN‡ 1543 | CFSM‡ 2.91 | IN‡ 39.61 |       |       |       |

† Change in contents, equivalent in cubic feet per second, in Carters Lake and re-regulation pool; furnished by Corps of Engineers.

‡ Adjusted for change in contents in Carters Lake and re-regulation pool.

## MOBILE RIVER BASIN

02382720 COOSAWATTEE RIVER NEAR NICKELSVILLE, GA.

LOCATION.--Lat 34°36'03", long 84°46'42", Gordon County, 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, 25.0°C Aug. 2, 5, 30, 1976; minimum, 3.5°C Dec. 5, 11, 18, 1974, Jan. 11, 12, 1976.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 25.0°C Aug. 2, 30; minimum, 3.5°C Jan. 11, 12.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | OCTOBER |      | NOVEMBER |      | DECEMBER |      | JANUARY |     | FEBRUARY |      | MARCH |      |
|-------|---------|------|----------|------|----------|------|---------|-----|----------|------|-------|------|
|       | MAX     | MIN  | MAX      | MIN  | MAX      | MIN  | MAX     | MIN | MAX      | MIN  | MAX   | MIN  |
| 1     | 19.0    | 18.5 | 16.0     | 15.0 | 11.5     | 10.0 | 9.5     | 9.0 | 7.0      | 6.0  | 12.5  | 10.0 |
| 2     | 19.0    | 18.0 | 15.5     | 14.0 | 12.0     | 9.0  | 9.5     | 8.0 | 7.5      | 5.5  | 11.0  | 9.5  |
| 3     | 19.0    | 18.0 | 15.5     | 13.0 | 11.5     | 8.5  | 9.5     | 8.5 | 8.0      | 6.5  | 12.5  | 11.0 |
| 4     | 18.5    | 17.0 | 17.0     | 15.0 | 11.5     | 9.0  | 8.5     | 6.5 | 7.5      | 7.0  | 13.5  | 10.5 |
| 5     | 17.0    | 17.0 | 17.5     | 16.0 | 12.5     | 8.5  | 9.0     | 5.0 | 8.5      | 6.5  | 11.0  | 10.5 |
| 6     | 18.5    | 16.5 | 18.0     | 17.0 | 13.0     | 12.5 | 8.5     | 8.0 | 8.5      | 7.5  | 11.5  | 11.0 |
| 7     | 19.0    | 18.0 | 17.5     | 17.5 | 13.0     | 12.0 | 8.5     | 6.5 | 7.5      | 7.0  | 12.5  | 10.5 |
| 8     | 19.5    | 19.0 | 17.5     | 17.0 | 12.5     | 11.0 | 7.5     | 5.0 | 7.0      | 6.5  | 11.5  | 10.5 |
| 9     | 19.5    | 19.0 | 18.0     | 17.0 | 12.5     | 12.0 | 8.5     | 6.5 | 7.5      | 6.0  | 10.5  | 10.0 |
| 10    | 19.5    | 18.5 | 18.0     | 17.0 | 12.5     | 12.0 | 8.0     | 6.0 | 7.5      | 5.5  | 10.5  | 9.0  |
| 11    | 19.5    | 18.5 | 17.5     | 16.5 | 12.0     | 11.5 | 6.0     | 3.5 | 8.0      | 6.5  | 10.5  | 9.5  |
| 12    | 20.0    | 18.0 | 17.5     | 16.0 | 11.0     | 10.5 | 5.0     | 3.5 | 8.5      | 6.5  | 10.5  | 9.5  |
| 13    | 20.5    | 18.5 | 16.0     | 14.5 | 11.0     | 10.0 | 7.5     | 5.0 | 9.0      | 8.0  | 11.0  | 10.5 |
| 14    | 20.0    | 18.5 | 15.0     | 14.0 | 11.5     | 10.0 | 7.5     | 6.0 | 9.0      | 8.0  | 11.5  | 10.5 |
| 15    | 19.5    | 18.5 | 15.0     | 11.0 | 11.0     | 10.5 | 8.0     | 6.0 | 10.0     | 9.0  | 11.5  | 10.0 |
| 16    | 19.5    | 19.0 | 13.5     | 10.0 | 10.5     | 10.0 | 8.0     | 7.5 | 11.5     | 9.0  | 10.5  | 9.5  |
| 17    | 19.5    | 19.0 | 13.5     | 10.0 | 10.0     | 9.5  | 7.5     | 6.5 | 12.0     | 9.5  | 9.5   | 8.5  |
| 18    | 19.0    | 17.0 | 14.5     | 10.0 | 9.5      | 8.0  | 6.5     | 5.5 | 13.0     | 11.5 | 10.0  | 9.0  |
| 19    | 17.0    | 15.0 | 14.5     | 11.5 | 9.0      | 8.0  | 8.0     | 4.5 | 12.5     | 11.0 | 10.5  | 9.5  |
| 20    | 14.5    | 13.5 | 15.0     | 11.5 | 9.0      | 8.0  | 7.5     | 5.5 | 11.0     | 8.5  | 11.0  | 10.0 |
| 21    | 17.0    | 15.0 | 14.0     | 12.0 | 8.0      | 6.5  | 7.5     | 5.0 | 10.5     | 9.0  | 13.5  | 11.0 |
| 22    | 17.5    | 16.5 | 13.0     | 11.5 | 6.5      | 5.0  | 7.5     | 4.0 | 11.0     | 10.0 | 13.5  | 10.5 |
| 23    | 17.5    | 16.5 | 12.5     | 10.5 | 5.5      | 4.5  | 7.5     | 6.5 | 10.0     | 7.5  | 11.0  | 9.5  |
| 24    | 17.5    | 17.0 | 13.5     | 9.0  | 5.0      | 4.5  | 7.5     | 7.0 | 9.0      | 8.0  | 11.5  | 10.0 |
| 25    | 17.5    | 17.0 | 14.0     | 9.0  | 5.0      | 4.5  | 8.5     | 7.0 | 9.5      | 8.5  | 11.5  | 11.0 |
| 26    | 17.5    | 16.5 | 11.5     | 8.5  | 8.0      | 5.0  | 9.5     | 8.0 | 10.5     | 9.0  | 11.5  | 10.5 |
| 27    | 18.0    | 16.5 | 12.0     | 10.0 | 8.5      | 8.0  | 8.5     | 7.5 | 11.5     | 9.5  | 12.5  | 11.0 |
| 28    | 17.5    | 17.0 | 11.5     | 9.5  | 8.5      | 8.0  | 7.5     | 7.0 | 11.5     | 9.0  | 14.5  | 12.5 |
| 29    | 18.0    | 17.0 | 12.5     | 11.0 | 9.0      | 7.5  | 7.5     | 7.0 | 12.0     | 10.0 | 14.5  | 11.5 |
| 30    | 17.5    | 16.5 | 11.5     | 10.0 | 9.5      | 9.0  | 8.0     | 7.0 | ---      | ---  | 13.5  | 12.0 |
| 31    | 17.0    | 15.5 | ---      | ---  | 10.0     | 9.0  | 7.5     | 7.0 | ---      | ---  | 13.5  | 12.0 |
| MONTH | 20.5    | 13.5 | 18.0     | 8.5  | 13.0     | 4.5  | 9.5     | 3.5 | 13.0     | 5.5  | 14.5  | 8.5  |

02382720 COOSAWATTEE RIVER NEAR NICKELSVILLE, Ga.--Continued

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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



## 02383500 COOSAWATTEE RIVER AT PINE CHAPEL, GA.

LOCATION.--Lat 34°34'37", long 84°51'35", Gordon County, on right bank at downstream edge of highway bridge at Pine Chapel, 4 mi (6.4 km) downstream from Sallacoa Creek, 5 mi (8.0 km) east of Resaca, and 6 mi (9.7 km) upstream from confluence with Conasauga River.

DRAINAGE AREA.--856 mi<sup>2</sup> (2,220 km<sup>2</sup>).

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to current year. 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). Prior to Feb. 23, 1940, nonrecording gage at same site and datum. Feb. 23, 1940 to Apr. 8, 1975, auxiliary water-stage recorder at highway bridge 2 mi (3.2 km) upstream. Apr. 9, 1975 to Sept. 30, 1976, auxiliary gage 2 mi (3.2 km) upstream used as base gage due to construction, and water-stage recorder on Oostanaula River at Resaca used as auxiliary gage.

REMARKS.--Records good. Flow regulated by Carters Lake and re-regulation dam (see stations 02381400, 02382400).

AVERAGE DISCHARGE.--38 years, 1,483 ft<sup>3</sup>/s (42.0 m<sup>3</sup>/s), 23.53 in/yr (597.7 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,200 ft<sup>3</sup>/s (1,140 m<sup>3</sup>/s) Mar. 30, 1951, gage height, 30.8 ft (9.39 m); minimum daily, 188 ft<sup>3</sup>/s (5.32 m<sup>3</sup>/s) Sept. 11, 1976; minimum unregulated daily discharge, 220 ft<sup>3</sup>/s (6.23 m<sup>3</sup>/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, discharge, 34,000 ft<sup>3</sup>/s (963 m<sup>3</sup>/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 14,700 ft<sup>3</sup>/s (416 m<sup>3</sup>/s) Apr. 1; maximum gage height, 27.08 ft (8.254 m) Apr. 1 (backwater from Conasauga River); minimum daily discharge, 188 ft<sup>3</sup>/s (5.32 m<sup>3</sup>/s) Sept. 11.

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

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR    | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 1     | 1810  | 703   | 2800  | 4050  | 3680  | 1140   | 13300 | 885   | 1580  | 2780  | 615   | 346   |
| 2     | 4780  | 400   | 2380  | 2500  | 1830  | 2150   | 9100  | 1050  | 1940  | 2910  | 580   | 383   |
| 3     | 4390  | 300   | 1170  | 2740  | 2040  | 1810   | 7070  | 1110  | 2110  | 3550  | 540   | 385   |
| 4     | 2980  | 290   | 1370  | 3000  | 2050  | 797    | 4140  | 1450  | 2140  | 4680  | 420   | 413   |
| 5     | 1070  | 724   | 1050  | 2160  | 2640  | 1960   | 2630  | 1580  | 2150  | 6920  | 400   | 494   |
| 6     | 1080  | 1970  | 1720  | 2070  | 2270  | 2980   | 3480  | 1830  | 1620  | 4590  | 390   | 528   |
| 7     | 1280  | 3880  | 1670  | 2500  | 2310  | 1330   | 4990  | 2050  | 953   | 4640  | 452   | 368   |
| 8     | 2120  | 3240  | 1570  | 3740  | 2290  | 1020   | 4880  | 1110  | 2310  | 5780  | 461   | 364   |
| 9     | 3200  | 1380  | 2150  | 3780  | 2370  | 1830   | 4680  | 1020  | 2010  | 3980  | 441   | 290   |
| 10    | 1760  | 798   | 4680  | 4000  | 2900  | 2120   | 2880  | 941   | 1470  | 4300  | 458   | 276   |
| 11    | 1600  | 752   | 3100  | 2680  | 980   | 2350   | 1500  | 1160  | 2420  | 4150  | 1120  | 188   |
| 12    | 926   | 1220  | 1680  | 1290  | 802   | 3460   | 1830  | 1990  | 2570  | 3650  | 1480  | 383   |
| 13    | 873   | 2700  | 918   | 1030  | 922   | 7160   | 3290  | 2050  | 906   | 3400  | 1500  | 417   |
| 14    | 990   | 3630  | 847   | 1330  | 2550  | 6520   | 3380  | 2180  | 805   | 1790  | 1470  | 570   |
| 15    | 1680  | 3980  | 815   | 1480  | 2030  | 3310   | 3240  | 5130  | 700   | 1440  | 1450  | 998   |
| 16    | 1700  | 1360  | 1010  | 2360  | 1170  | 5400   | 2620  | 5000  | 735   | 2160  | 368   | 430   |
| 17    | 2060  | 808   | 987   | 2460  | 1690  | 9320   | 1610  | 3200  | 760   | 2150  | 721   | 500   |
| 18    | 2320  | 1180  | 862   | 2800  | 1250  | 7500   | 901   | 3170  | 808   | 1590  | 861   | 424   |
| 19    | 1570  | 1150  | 926   | 3350  | 1790  | 5610   | 867   | 3530  | 902   | 829   | 375   | 388   |
| 20    | 918   | 794   | 1170  | 3320  | 1080  | 3910   | 1330  | 3600  | 1820  | 945   | 402   | 458   |
| 21    | 1110  | 1350  | 1040  | 3200  | 2250  | 4580   | 3460  | 3730  | 1650  | 1170  | 410   | 1050  |
| 22    | 1440  | 1120  | 959   | 2230  | 2200  | 3040   | 2830  | 3850  | 927   | 1930  | 465   | 644   |
| 23    | 1530  | 1200  | 902   | 960   | 2310  | 2790   | 1980  | 2050  | 1930  | 2080  | 504   | 448   |
| 24    | 1700  | 1410  | 792   | 949   | 2170  | 3420   | 2250  | 1720  | 2120  | 2070  | 2440  | 1160  |
| 25    | 1690  | 2410  | 869   | 924   | 1240  | 3350   | 971   | 1630  | 2340  | 2060  | 2740  | 889   |
| 26    | 1600  | 868   | 1540  | 3720  | 917   | 3200   | 936   | 1590  | 2180  | 1370  | 2960  | 430   |
| 27    | 1500  | 836   | 1050  | 5630  | 889   | 3560   | 945   | 1280  | 1940  | 2500  | 2730  | 612   |
| 28    | 1380  | 910   | 806   | 4590  | 900   | 2900   | 865   | 1050  | 1200  | 1300  | 2220  | 1030  |
| 29    | 1120  | 1740  | 939   | 3320  | 862   | 2050   | 704   | 2290  | 1190  | 1350  | 1030  | 593   |
| 30    | 1290  | 1630  | 1570  | 2240  | ---   | 7500   | 774   | 1060  | 1990  | 1180  | 609   | 455   |
| 31    | 1130  | ---   | 3100  | 2920  | ---   | 12400  | ---   | 1190  | ---   | 640   | 690   | ---   |
| TOTAL | 54597 | 44733 | 46442 | 83323 | 52382 | 120467 | 93433 | 65476 | 48176 | 83884 | 31302 | 15914 |
| MEAN  | 1761  | 1491  | 1498  | 2688  | 1806  | 3886   | 3114  | 2112  | 1606  | 2706  | 1010  | 530   |
| MAX   | 4780  | 3980  | 4680  | 5630  | 3680  | 12400  | 13300 | 5130  | 2570  | 6920  | 2960  | 1160  |
| MIN   | 873   | 290   | 792   | 924   | 802   | 797    | 704   | 885   | 700   | 640   | 368   | 188   |

CAL YR 1975 TOTAL 497809 MEAN 1364 MAX 6970 MIN 260 MEAN† 1854 CFSM† 2.16 IN† 29.40  
WTR YR 1976 TOTAL 740129 MEAN 2022 MAX 13300 MIN 188 MEAN† 2002 CFSM† 2.34 IN† 31.83

†Adjusted for change in contents in Carters Lake and re-regulation dam.



02383500 COOSAWATTEE RIVER AT 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, 24.0°C Aug. 18, 19, Sept. 1, 1975, Aug. 2, 30, 31, 1976; minimum, 4.0°C Jan. 15, 1975, Jan. 11, 12, 1976.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 24.0°C Aug. 2, 30, 31; minimum, 4.0°C Jan. 11, 12.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

02383500 COOSAWATTEE RIVER AT PINE CHAPEL, GA.--Continued

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

02383540 COOSAWATTEE RIVER NEAR CALHOUN, GA.

LOCATION.--Lat 34°32'28", long 84°54'03", Gordon County, 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 mi<sup>2</sup> (2,240 km<sup>2</sup>).

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

REMARKS.--Flow regulated by Carters Lake and re-regulation dam (see stations 02381400, 02382400). 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 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTANTANEOUS<br>DISCHARGE<br>(CFS) | PH<br>(UNITS) | TEMPERATURE<br>(DEG C) | DISSOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-------------------------------------|---------------|------------------------|-------------------------------|
| OCT.  |      |                                     |               |                        |                               |
| 14... | 1245 | 821                                 | 7.4           | 20.0                   | 8.7                           |
| NOV.  |      |                                     |               |                        |                               |
| 24... | 1540 | 2600                                | 7.3           | 9.0                    | 6.4                           |
| JAN.  |      |                                     |               |                        |                               |
| 05... | 1345 | 2230                                | 7.1           | 6.5                    | 12.0                          |
| FEB.  |      |                                     |               |                        |                               |
| 17... | 1415 | 1880                                | 7.5           | 11.0                   | 10.2                          |
| MAR.  |      |                                     |               |                        |                               |
| 15... | 1140 | 3130                                | 7.2           | 9.0                    | 10.0                          |
| APR.  |      |                                     |               |                        |                               |
| 13... | 1200 | 3130                                | 7.0           | 9.0                    | 11.0                          |
| MAY   |      |                                     |               |                        |                               |
| 11... | 1045 | 1030                                | 7.3           | 16.5                   | 8.6                           |
| JUNE  |      |                                     |               |                        |                               |
| 14... | 1040 | 808                                 | 7.2           | 18.5                   | 8.4                           |
| JULY  |      |                                     |               |                        |                               |
| 19... | 1240 | 748                                 | 7.2           | 22.0                   | 6.8                           |
| AUG.  |      |                                     |               |                        |                               |
| 23... | 1240 | 405                                 | 7.3           | 22.0                   | 8.1                           |
| SEP.  |      |                                     |               |                        |                               |
| 27... | 1030 | 518                                 | 7.1           | 20.5                   | 7.8                           |

| DATE  | ALKALINITY<br>AS<br>CaCO <sub>3</sub><br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITROGEN<br>(N)<br>(MG/L) | TOTAL<br>PHOSPHORUS<br>(P)<br>(MG/L) | HARDNESS<br>(Ca, Mg)<br>(MG/L) |
|-------|-------------------------------------------------|------------------------------------------------------|-----------------------------------------------|--------------------------------------|--------------------------------|
| OCT.  |                                                 |                                                      |                                               |                                      |                                |
| 14... | 34                                              | .11                                                  | .05                                           | .03                                  | 40                             |
| NOV.  |                                                 |                                                      |                                               |                                      |                                |
| 24... | 29                                              | .13                                                  | <.02                                          | .03                                  | 32                             |
| JAN.  |                                                 |                                                      |                                               |                                      |                                |
| 05... | 22                                              | .22                                                  | <.02                                          | .05                                  | 25                             |
| FEB.  |                                                 |                                                      |                                               |                                      |                                |
| 17... | 19                                              | .13                                                  | .05                                           | .02                                  | 22                             |
| MAR.  |                                                 |                                                      |                                               |                                      |                                |
| 15... | 23                                              | .22                                                  | .03                                           | .09                                  | 26                             |
| APR.  |                                                 |                                                      |                                               |                                      |                                |
| 13... | 15                                              | .14                                                  | <.02                                          | .03                                  | 16                             |
| MAY   |                                                 |                                                      |                                               |                                      |                                |
| 11... | 19                                              | .19                                                  | <.02                                          | <.02                                 | 38                             |
| JUNE  |                                                 |                                                      |                                               |                                      |                                |
| 14... | 22                                              | .19                                                  | <.02                                          | .02                                  | 30                             |
| JULY  |                                                 |                                                      |                                               |                                      |                                |
| 19... | 32                                              | .23                                                  | <.02                                          | <.02                                 | 43                             |
| AUG.  |                                                 |                                                      |                                               |                                      |                                |
| 23... | 24                                              | .25                                                  | <.02                                          | <.02                                 | 28                             |
| SEP.  |                                                 |                                                      |                                               |                                      |                                |
| 27... | 25                                              | .12                                                  | .02                                           | <.02                                 | 28                             |

02383540 COOSAWATTEE RIVER NEAR CALHOUN, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>14... | 89                                                         | 10                                           | 9                            | .9                                                           | 280                                              | 7.0                                         |
| NOV.<br>24... | 76                                                         | 8                                            | 9                            | .5                                                           | 430                                              | 2.0                                         |
| JAN.<br>05... | 64                                                         | 30                                           | 23                           | .8                                                           | 4300                                             | 6.0                                         |
| FEB.<br>17... | 60                                                         | <5                                           | 10                           | .3                                                           | 36                                               | 4.0                                         |
| MAR.<br>15... | 63                                                         | 40                                           | 52                           | .5                                                           | 930                                              | 3.0                                         |
| APR.<br>13... | 43                                                         | <5                                           | 12                           | .7                                                           | 150                                              | 2.0                                         |
| MAY<br>11...  | 89                                                         | 40                                           | 10                           | .6                                                           | 430                                              | 10                                          |
| JUNE<br>14... | 71                                                         | 50                                           | 8                            | .4                                                           | 930                                              | 1.0                                         |
| JULY<br>19... | 77                                                         | <5                                           | 11                           | .4                                                           | 23000                                            | 2.0                                         |
| AUG.<br>23... | 71                                                         | 5                                            | 4                            | .3                                                           | 1500                                             | 2.0                                         |
| SEP.<br>27... | 67                                                         | 10                                           | 3                            | .7                                                           | 430                                              | 3.0                                         |

02384748 CONASAUGA RIVER NEAR DALTON, GA.

LOCATION.--Lat 34°47'20", long 84°52'30", Whitfield County, 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.<br>14... | 1640 | 398                                           | 7.6           | 19.0                        | 8.5                                |
| NOV.<br>25... | 0950 | 445                                           | 7.5           | 7.0                         | 10.0                               |
| JAN.<br>05... | 1730 | 984                                           | 7.3           | 5.0                         | 12.1                               |
| FEB.<br>18... | 0830 | 405                                           | 7.7           | 13.5                        | 9.2                                |
| MAR.<br>15... | 1515 | 660                                           | 7.2           | 8.0                         | 10.6                               |
| APR.<br>13... | 0830 | 412                                           | 7.4           | 11.0                        | 8.8                                |
| MAY<br>12...  | 0740 | 400                                           | 7.5           | 16.5                        | 8.0                                |
| JUNE<br>15... | 1405 | 260                                           | 7.8           | 23.0                        | 7.6                                |
| JULY<br>19... | 1545 | 325                                           | 7.3           | 22.0                        | 7.9                                |
| AUG.<br>23... | 1625 | 105                                           | 7.6           | 24.0                        | 7.1                                |
| SEP.<br>30... | 1200 | 180                                           | 7.4           | 18.0                        | 7.5                                |

| DATE          | TOTAL<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | ALKA-<br>LITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) |
|---------------|---------------------------------|-------------------------------------------|----------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|
| OCT.<br>14... | 400                             | <50                                       | 49                                     | .20                                                  | .05                                                | .02                                       | 17                                                   |
| NOV.<br>25... | 320                             | <50                                       | 42                                     | .12                                                  | .08                                                | <.02                                      | 2                                                    |
| JAN.<br>05... | 300                             | <50                                       | 29                                     | .21                                                  | <.02                                               | <.02                                      | 22                                                   |
| FEB.<br>18... | 950                             | 70                                        | 50                                     | .21                                                  | <.02                                               | .05                                       | 35                                                   |
| MAR.<br>15... | 340                             | <50                                       | 39                                     | .20                                                  | .03                                                | .03                                       | 7                                                    |
| APR.<br>13... | 370                             | <50                                       | 46                                     | .21                                                  | <.02                                               | .02                                       | 12                                                   |
| MAY<br>12...  | --                              | --                                        | 41                                     | .16                                                  | .03                                                | .03                                       | 31                                                   |
| JUNE<br>15... | 480                             | <50                                       | 47                                     | .21                                                  | <.02                                               | .03                                       | 17                                                   |
| JULY<br>19... | 420                             | <50                                       | 47                                     | .30                                                  | .05                                                | .02                                       | 21                                                   |
| AUG.<br>23... | 470                             | 50                                        | 63                                     | .26                                                  | .02                                                | .04                                       | 17                                                   |
| SEP.<br>30... | 810                             | 50                                        | 30                                     | .14                                                  | .03                                                | .05                                       | 23                                                   |

## MOBILE RIVER BASIN

02384748 CONASAUCA RIVER NEAR DALTON, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | CON-<br>FIRMED<br>COLT-<br>FORM<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|------------------------------------------|---------------------------------------------|
| OCT.<br>14... | 52                                 | 102                                                        | 8                                            | 8                            | --                                                           | --                                               | --                                       | 6.0                                         |
| NOV.<br>25... | 44                                 | 94                                                         | 8                                            | 4                            | .2                                                           | 230                                              | 1500                                     | 4.0                                         |
| JAN.<br>05... | 33                                 | 73                                                         | 10                                           | 8                            | .3                                                           | 36                                               | 4300                                     | 4.0                                         |
| FEB.<br>18... | 48                                 | 112                                                        | 10                                           | 31                           | .5                                                           | 2300                                             | 23000                                    | 2.0                                         |
| MAR.<br>15... | 40                                 | 88                                                         | 5                                            | 8                            | .4                                                           | 150                                              | 7500                                     | 3.0                                         |
| APR.<br>13... | 44                                 | 101                                                        | <5                                           | 8                            | .3                                                           | 91                                               | 2300                                     | 2.0                                         |
| MAY<br>12...  | 45                                 | 95                                                         | 10                                           | 22                           | .5                                                           | 2300                                             | 9300                                     | 3.0                                         |
| JUNE<br>15... | 49                                 | 101                                                        | 10                                           | 14                           | .3                                                           | 230                                              | 2300                                     | <1.0                                        |
| JULY<br>19... | 48                                 | 103                                                        | 5                                            | 14                           | .5                                                           | 91                                               | 4300                                     | 5.0                                         |
| AUG.<br>23... | 75                                 | 136                                                        | 10                                           | 10                           | .3                                                           | 930                                              | 2300                                     | 3.0                                         |
| SEP.<br>30... | 34                                 | 75                                                         | 30                                           | 18                           | .6                                                           | 230                                              | 43000                                    | 3.0                                         |

## MOBILE RIVER BASIN

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02385800 HOLLY CREEK NEAR CHATSWORTH, GA.

LOCATION.--Lat 34°43'00", long 84°46'12", Murray County, 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 mi<sup>2</sup> (168 km<sup>2</sup>).

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 except those above 200 ft<sup>3</sup>/s (5.66 m<sup>3</sup>/s), which are poor. Records of chemical analyses for the water years 1968-74 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--16 years, 119 ft<sup>3</sup>/s (3.37 m<sup>3</sup>/s), 24.90 in/yr (632.5 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,040 ft<sup>3</sup>/s (171 m<sup>3</sup>/s) Mar. 15, 1964, gage height, 11.37 ft (3.466 m); minimum, 2.0 ft<sup>3</sup>/s (57.1 l/s) Sept. 2, 1962.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft<sup>3</sup>/s (42.5 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Jan. 26 | 2400 | 1900 53.8                                             | 9.01 2.746              | July 5 | 0800 | *2520 71.4                                            | 9.25 2.819              |
| May 15  | 2100 | 2440 69.1                                             | 9.19 2.801              |        |      |                                                       |                         |

Minimum discharge, 7.6 ft<sup>3</sup>/s (215 l/s) Sept. 18, 20, gage height, 1.67 ft (0.509 m).

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

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL  | AUG  | SEP   |
|-------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 1     | 456  | 53   | 542  | 1020 | 185  | 81   | 636  | 66   | 115  | 236  | 34   | 16    |
| 2     | 705  | 51   | 244  | 469  | 170  | 76   | 344  | 49   | 102  | 108  | 29   | 29    |
| 3     | 217  | 49   | 161  | 454  | 150  | 73   | 235  | 40   | 95   | 79   | 26   | 18    |
| 4     | 134  | 47   | 131  | 383  | 135  | 70   | 184  | 35   | 118  | 777  | 24   | 16    |
| 5     | 110  | 45   | 113  | 252  | 120  | 118  | 156  | 34   | 74   | 1790 | 23   | 16    |
| 6     | 100  | 43   | 102  | 196  | 118  | 365  | 140  | 32   | 63   | 687  | 31   | 16    |
| 7     | 90   | 248  | 96   | 214  | 115  | 158  | 127  | 210  | 56   | 605  | 52   | 14    |
| 8     | 271  | 179  | 88   | 292  | 108  | 125  | 116  | 84   | 53   | 271  | 40   | 13    |
| 9     | 368  | 107  | 118  | 180  | 100  | 565  | 107  | 59   | 69   | 171  | 24   | 12    |
| 10    | 179  | 86   | 114  | 154  | 94   | 458  | 100  | 48   | 58   | 136  | 21   | 12    |
| 11    | 131  | 75   | 88   | 155  | 89   | 210  | 95   | 109  | 51   | 113  | 20   | 12    |
| 12    | 108  | 265  | 79   | 169  | 86   | 307  | 93   | 77   | 44   | 100  | 19   | 10    |
| 13    | 91   | 557  | 74   | 166  | 82   | 612  | 84   | 70   | 41   | 88   | 19   | 9.7   |
| 14    | 77   | 210  | 70   | 499  | 79   | 312  | 79   | 109  | 38   | 76   | 18   | 9.1   |
| 15    | 71   | 142  | 68   | 277  | 75   | 220  | 74   | 1510 | 35   | 69   | 20   | 9.1   |
| 16    | 80   | 116  | 244  | 206  | 72   | 440  | 70   | 926  | 35   | 66   | 25   | 9.1   |
| 17    | 429  | 100  | 166  | 176  | 130  | 308  | 65   | 246  | 36   | 79   | 18   | 8.8   |
| 18    | 738  | 88   | 126  | 140  | 250  | 210  | 61   | 174  | 32   | 59   | 16   | 8.2   |
| 19    | 256  | 81   | 101  | 124  | 424  | 168  | 58   | 136  | 77   | 53   | 15   | 8.2   |
| 20    | 166  | 109  | 93   | 119  | 176  | 157  | 56   | 111  | 285  | 77   | 14   | 8.2   |
| 21    | 132  | 313  | 87   | 114  | 160  | 510  | 54   | 95   | 147  | 69   | 13   | 28    |
| 22    | 112  | 165  | 79   | 108  | 279  | 326  | 52   | 84   | 133  | 49   | 13   | 14    |
| 23    | 99   | 141  | 74   | 102  | 154  | 202  | 48   | 76   | 66   | 44   | 13   | 10    |
| 24    | 86   | 123  | 69   | 100  | 131  | 162  | 45   | 81   | 53   | 40   | 25   | 9.1   |
| 25    | 78   | 108  | 250  | 119  | 118  | 153  | 69   | 72   | 46   | 37   | 15   | 8.8   |
| 26    | 75   | 98   | 932  | 1130 | 109  | 138  | 50   | 64   | 78   | 36   | 28   | 8.8   |
| 27    | 73   | 119  | 550  | 1290 | 101  | 237  | 44   | 63   | 63   | 34   | 38   | 17    |
| 28    | 67   | 100  | 242  | 505  | 93   | 186  | 41   | 170  | 53   | 125  | 21   | 23    |
| 29    | 64   | 90   | 172  | 290  | 87   | 165  | 40   | 705  | 53   | 43   | 19   | 14    |
| 30    | 65   | 105  | 206  | 216  | ---  | 862  | 40   | 271  | 476  | 37   | 17   | 14    |
| 31    | 58   | ---  | 866  | 177  | ---  | 762  | ---  | 153  | ---  | 43   | 15   | ---   |
| TOTAL | 5686 | 4013 | 6345 | 9796 | 3990 | 8736 | 3363 | 5959 | 2645 | 6197 | 705  | 401.1 |
| MEAN  | 183  | 134  | 205  | 316  | 138  | 282  | 112  | 192  | 88.2 | 200  | 22.7 | 13.4  |
| MAX   | 738  | 557  | 932  | 1290 | 424  | 862  | 636  | 1510 | 476  | 1790 | 52   | 29    |
| MIN   | 58   | 43   | 68   | 100  | 72   | 70   | 40   | 32   | 32   | 34   | 13   | 8.2   |
| CFSM  | 2.82 | 2.06 | 3.16 | 4.87 | 2.13 | 4.35 | 1.73 | 2.96 | 1.36 | 3.08 | .35  | .21   |
| IN.   | 3.26 | 2.30 | 3.64 | 5.61 | 2.29 | 5.01 | 1.93 | 3.42 | 1.52 | 3.55 | .40  | .23   |

|             |       |         |      |     |     |      |     |     |      |      |    |       |
|-------------|-------|---------|------|-----|-----|------|-----|-----|------|------|----|-------|
| CAL YR 1975 | TOTAL | 56751.0 | MEAN | 155 | MAX | 2200 | MIN | 18  | CFSM | 2.39 | IN | 32.53 |
| WTR YR 1976 | TOTAL | 57836.1 | MEAN | 158 | MAX | 1790 | MIN | 8.2 | CFSM | 2.43 | IN | 33.15 |



## MOBILE RIVER BASIN

02387000 CONASAUGA RIVER AT TILTON, GA.

LOCATION.--Lat 34°40'00", long 84°55'42", Murray County, 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 mi<sup>2</sup> (1,770 km<sup>2</sup>).

## 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.--39 years, 1,196 ft<sup>3</sup>/s (33.9 m<sup>3</sup>/s), 23.81 in/yr (604.8 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,000 ft<sup>3</sup>/s (821 m<sup>3</sup>/s) Mar. 30, 1951; maximum gage height, 30.2 ft (9.20 m) Mar. 30, 1951, backwater from Coosawattee River; minimum discharge, 50 ft<sup>3</sup>/s (1.42 m<sup>3</sup>/s) Nov. 1, 1974, caused by construction upstream; minimum unregulated discharge, 68 ft<sup>3</sup>/s (1.93 m<sup>3</sup>/s) Oct. 24, 25, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,400 ft<sup>3</sup>/s (295 m<sup>3</sup>/s) July 7, gage height, 20.49 ft (6.245 m); minimum, 147 ft<sup>3</sup>/s (4.16 m<sup>3</sup>/s) Sept. 26.

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

| DAY         | OCT   | NOV    | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 2320  | 502    | 2520  | 5510  | 1640  | 848   | 6110  | 542   | 1170  | 3430  | 411   | 279   |
| 2           | 4480  | 479    | 3400  | 6110  | 1740  | 793   | 4480  | 661   | 1160  | 1690  | 400   | 306   |
| 3           | 4380  | 463    | 2070  | 5760  | 1510  | 751   | 2220  | 624   | 1180  | 1080  | 343   | 330   |
| 4           | 2140  | 450    | 1410  | 4610  | 1310  | 720   | 1530  | 474   | 1210  | 4390  | 308   | 279   |
| 5           | 1290  | 433    | 1150  | 3600  | 1180  | 730   | 1510  | 422   | 1030  | 7440  | 301   | 255   |
| 6           | 1090  | 423    | 991   | 2310  | 1140  | 1990  | 1400  | 398   | 1280  | 8700  | 289   | 240   |
| 7           | 1040  | 689    | 905   | 1950  | 1130  | 2200  | 1240  | 1510  | 825   | 10200 | 385   | 237   |
| 8           | 1560  | 1420   | 875   | 2480  | 1030  | 1400  | 1120  | 1520  | 670   | 9040  | 832   | 222   |
| 9           | 2400  | 1110   | 969   | 2360  | 970   | 2770  | 1010  | 922   | 665   | 3270  | 592   | 204   |
| 10          | 2430  | 801    | 1600  | 1650  | 917   | 4920  | 916   | 680   | 617   | 1250  | 363   | 186   |
| 11          | 1540  | 679    | 1440  | 1460  | 870   | 4640  | 862   | 709   | 538   | 1060  | 304   | 177   |
| 12          | 1160  | 1380   | 1010  | 1660  | 833   | 2740  | 861   | 840   | 492   | 918   | 279   | 174   |
| 13          | 970   | 2930   | 870   | 1680  | 792   | 4300  | 813   | 672   | 454   | 819   | 268   | 177   |
| 14          | 830   | 2950   | 790   | 2630  | 766   | 3440  | 754   | 700   | 423   | 768   | 250   | 177   |
| 15          | 733   | 1600   | 752   | 3110  | 738   | 2140  | 714   | 3750  | 397   | 720   | 248   | 162   |
| 16          | 675   | 1120   | 1160  | 2220  | 718   | 2620  | 680   | 5360  | 380   | 665   | 307   | 166   |
| 17          | 2050  | 937    | 2030  | 1830  | 698   | 3600  | 645   | 5980  | 370   | 686   | 368   | 164   |
| 18          | 3840  | 819    | 1520  | 1550  | 1740  | 2580  | 613   | 3290  | 367   | 720   | 288   | 164   |
| 19          | 3870  | 737    | 1110  | 1250  | 3980  | 1830  | 584   | 1570  | 418   | 595   | 258   | 164   |
| 20          | 2160  | 712    | 932   | 1110  | 3490  | 1540  | 562   | 1220  | 2240  | 541   | 234   | 174   |
| 21          | 1390  | 1330   | 865   | 1100  | 1760  | 2940  | 539   | 1010  | 3070  | 646   | 219   | 185   |
| 22          | 1120  | 1620   | 815   | 1050  | 1910  | 4350  | 520   | 862   | 1640  | 575   | 213   | 225   |
| 23          | 966   | 1220   | 751   | 984   | 1820  | 3130  | 507   | 774   | 988   | 475   | 213   | 230   |
| 24          | 847   | 1120   | 699   | 941   | 1400  | 1880  | 485   | 888   | 725   | 433   | 216   | 188   |
| 25          | 760   | 986    | 1080  | 1070  | 1190  | 1580  | 531   | 797   | 606   | 404   | 222   | 165   |
| 26          | 694   | 870    | 4320  | 4360  | 1080  | 1480  | 598   | 644   | 807   | 386   | 255   | 156   |
| 27          | 667   | 934    | 5280  | 6800  | 998   | 1540  | 527   | 572   | 912   | 382   | 499   | 192   |
| 28          | 642   | 941    | 5490  | 8170  | 917   | 1900  | 814   | 900   | 764   | 815   | 639   | 424   |
| 29          | 597   | 815    | 2870  | 8680  | 862   | 1600  | 429   | 3550  | 619   | 602   | 390   | 625   |
| 30          | 573   | 790    | 1770  | 5110  | ---   | 4130  | 417   | 3890  | 2980  | 455   | 688   | 358   |
| 31          | 548   | ---    | 3800  | 1940  | ---   | 5430  | ---   | 2130  | ---   | 463   | 393   | ---   |
| TOTAL       | 49762 | 31260  | 55244 | 95045 | 39129 | 76512 | 33991 | 47861 | 28997 | 63618 | 10975 | 6985  |
| MEAN        | 1605  | 1042   | 1782  | 3066  | 1349  | 2468  | 1133  | 1544  | 967   | 2052  | 354   | 233   |
| MAX         | 4480  | 2950   | 5490  | 8680  | 3980  | 5430  | 6110  | 5980  | 3070  | 10200 | 832   | 625   |
| MIN         | 548   | 423    | 699   | 941   | 698   | 720   | 417   | 398   | 367   | 382   | 213   | 156   |
| CFSM        | 2.35  | 1.53   | 2.61  | 4.50  | 1.98  | 3.62  | 1.66  | 2.26  | 1.42  | 3.01  | .52   | .34   |
| IN.         | 2.71  | 1.71   | 3.01  | 5.18  | 2.13  | 4.17  | 1.85  | 2.61  | 1.58  | 3.47  | .60   | .38   |
| CAL YR 1975 | TOTAL | 616589 | MEAN  | 1689  | MAX   | 16300 | MIN   | 146   | CFSM  | 2.48  | IN    | 33.63 |
| WTR YR 1976 | TOTAL | 539379 | MEAN  | 1474  | MAX   | 10200 | MIN   | 156   | CFSM  | 2.16  | IN    | 29.42 |

## MOBILE RIVER BASIN

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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 September 1976.

pH: October 1975 to September 1976.

WATER TEMPERATURES: October 1975 to September 1976.

DISSOLVED OXYGEN: October 1975 to September 1976.

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 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                               |               |                             |                                    |
| 14... | 1545 | 804                                           | 7.5           | 19.0                        | 7.8                                |
| NOV.  |      |                                               |               |                             |                                    |
| 25... | 0820 | 1000                                          | 7.4           | 7.0                         | 11.0                               |
| JAN.  |      |                                               |               |                             |                                    |
| 05... | 1620 | 3180                                          | 7.3           | 5.0                         | 12.5                               |
| FEB.  |      |                                               |               |                             |                                    |
| 17... | 1635 | 692                                           | 7.4           | 14.0                        | 9.2                                |
| MAR.  |      |                                               |               |                             |                                    |
| 15... | 1355 | 2020                                          | 7.4           | 8.0                         | 10.3                               |
| MAY   |      |                                               |               |                             |                                    |
| 11... | 1245 | 730                                           | 7.5           | 17.5                        | 7.6                                |
| JUNE  |      |                                               |               |                             |                                    |
| 14... | 1230 | 417                                           | 7.7           | 23.0                        | 6.3                                |
| JULY  |      |                                               |               |                             |                                    |
| 19... | 1445 | 565                                           | 7.5           | 23.0                        | 7.1                                |
| AUG.  |      |                                               |               |                             |                                    |
| 23... | 1505 | 204                                           | 7.4           | 26.0                        | 4.5                                |
| SEP.  |      |                                               |               |                             |                                    |
| 27... | 1415 | 213                                           | 7.5           | 21.0                        | 4.7                                |

| DATE  | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) |
|-------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| OCT.  |                                          |                                                      |                                                    |                                           |                                    |
| 14... | 56                                       | .19                                                  | .17                                                | .50                                       | 62                                 |
| NOV.  |                                          |                                                      |                                                    |                                           |                                    |
| 25... | 50                                       | .39                                                  | <.02                                               | .70                                       | 55                                 |
| JAN.  |                                          |                                                      |                                                    |                                           |                                    |
| 05... | 32                                       | .29                                                  | <.02                                               | .08                                       | 38                                 |
| FEB.  |                                          |                                                      |                                                    |                                           |                                    |
| 17... | 63                                       | .22                                                  | .09                                                | .39                                       | 66                                 |
| MAR.  |                                          |                                                      |                                                    |                                           |                                    |
| 15... | 39                                       | .23                                                  | .04                                                | .09                                       | 44                                 |
| MAY   |                                          |                                                      |                                                    |                                           |                                    |
| 11... | 49                                       | .30                                                  | .06                                                | .63                                       | 57                                 |
| JUNE  |                                          |                                                      |                                                    |                                           |                                    |
| 14... | 61                                       | .31                                                  | .05                                                | .25                                       | 62                                 |
| JULY  |                                          |                                                      |                                                    |                                           |                                    |
| 19... | 55                                       | .36                                                  | .06                                                | .19                                       | 59                                 |
| AUG.  |                                          |                                                      |                                                    |                                           |                                    |
| 23... | 76                                       | .53                                                  | .16                                                | .51                                       | 85                                 |
| SEP.  |                                          |                                                      |                                                    |                                           |                                    |
| 27... | 91                                       | .42                                                  | .22                                                | .84                                       | 94                                 |

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>14... | 140                                                        | 20                                           | 18                           | --                                                           | --                                               | 18                                          |
| NOV.<br>25... | 135                                                        | 25                                           | 20                           | 2.2                                                          | 43000                                            | 16                                          |
| JAN.<br>05... | 87                                                         | 30                                           | 18                           | .6                                                           | 430                                              | 6.0                                         |
| FEB.<br>17... | 157                                                        | 25                                           | 11                           | 1.1                                                          | 110                                              | 5.0                                         |
| MAR.<br>15... | 98                                                         | 20                                           | 21                           | .8                                                           | 430                                              | 3.0                                         |
| MAY<br>11...  | 140                                                        | 40                                           | 44                           | 2.6                                                          | 23000                                            | 14                                          |
| JUNE<br>14... | 143                                                        | 25                                           | 15                           | 1.0                                                          | 36                                               | 3.0                                         |
| JULY<br>19... | 132                                                        | 15                                           | 24                           | .6                                                           | 230                                              | 4.0                                         |
| AUG.<br>23... | 201                                                        | 30                                           | 9                            | 1.0                                                          | 210                                              | 20                                          |
| SEP.<br>27... | 236                                                        | 40                                           | 6                            | 1.2                                                          | 430                                              | 5.0                                         |

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH     |     |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-----------|-----|
|       | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | 139     | 89  | 173      | 159 | 122      | 105 | 79      | 60  | 95       | 91  | 125       | 117 |
| 2     | 92      | 80  | 157      | 154 | 107      | 91  | 59      | 55  | 100      | 94  | 135       | 129 |
| 3     | 77      | 66  | 152      | 149 | 103      | 95  | 78      | 60  | 109      | 100 | 142       | 135 |
| 4     | 96      | 75  | 182      | 152 | 110      | 102 | 78      | 73  | 114      | 109 | 148       | 141 |
| 5     | 105     | 92  | 189      | 176 | 120      | 112 | 79      | 72  | 118      | 113 | 154       | 133 |
| 6     | 118     | 104 | 196      | 176 | 124      | 119 | 90      | 80  | 125      | 118 | 146       | 102 |
| 7     | 134     | 123 | 202      | 166 | 128      | 119 | 99      | 91  | 123      | 114 | 119       | 102 |
| 8     | 144     | 130 | 167      | 117 | 129      | 119 | 106     | 96  | 119      | 115 | 112       | 104 |
| 9     | 135     | 116 | 123      | 112 | 158      | 130 | 103     | 99  | 117      | 113 | 112       | 95  |
| 10    | 115     | 97  | 123      | 112 | 151      | 136 | 104     | 97  | 128      | 119 | 94        | 78  |
| 11    | 108     | 99  | 145      | 125 | 142      | 130 | 101     | 97  | 134      | 126 | 89        | 76  |
| 12    | 110     | 104 | 148      | 112 | 135      | 131 | 107     | 98  | 139      | 130 | 94        | 85  |
| 13    | 124     | 108 | 118      | 104 | 138      | 129 | 117     | 110 | 143      | 134 | 91        | 80  |
| 14    | 138     | 127 | 105      | 83  | 133      | 126 | 124     | 102 | 143      | 131 | 88        | 81  |
| 15    | 151     | 139 | 97       | 92  | 133      | 126 | 101     | 87  | 137      | 128 | 95        | 81  |
| 16    | 160     | 148 | 103      | 98  | 156      | 135 | 92      | 87  | 132      | 125 | 95        | 87  |
| 17    | 160     | 102 | 114      | 102 | 133      | 126 | 96      | 92  | 147      | 134 | 94        | 79  |
| 18    | 111     | 75  | 131      | 117 | 129      | 113 | 98      | 95  | 150      | 111 | 88        | 79  |
| 19    | 73      | 62  | 142      | 133 | 118      | 113 | 110     | 98  | 120      | 92  | 90        | 83  |
| 20    | 94      | 76  | 149      | 136 | 121      | 118 | 118     | 111 | 95       | 81  | 94        | 88  |
| 21    | 110     | 95  | 156      | 121 | 124      | 120 | 121     | 117 | 95       | 92  | 93        | 81  |
| 22    | 120     | 11  | 123      | 114 | 126      | 119 | 125     | 118 | 105      | 95  | 84        | 75  |
| 23    | 128     | 121 | 124      | 105 | 136      | 128 | 131     | 122 | 104      | 96  | 81        | 76  |
| 24    | 136     | 128 | 116      | 107 | 141      | 132 | 134     | 123 | 107      | 103 | 92        | 81  |
| 25    | 139     | 129 | 130      | 119 | 133      | 107 | 131     | 123 | 113      | 108 | 97        | 91  |
| 26    | 137     | 129 | 136      | 128 | 108      | 84  | 122     | 71  | 119      | 114 | 109       | 98  |
| 27    | 135     | 130 | 139      | 125 | 83       | 58  | 72      | 51  | 124      | 119 | 124       | 106 |
| 28    | ---     | 136 | 129      | 123 | 71       | 58  | 51      | 45  | 130      | 120 | 113       | 99  |
| 29    | 166     | 150 | 132      | 125 | 89       | 71  | 63      | 47  | 123      | 117 | 105       | 96  |
| 30    | 171     | 156 | 129      | 118 | 99       | 90  | 86      | 64  | ---      | --- | 113       | 82  |
| 31    | 178     | 161 | ---      | --- | 105      | 80  | 92      | 86  | ---      | --- | 81        | 71  |
| MONTH | 178     | 62  | 202      | 83  | 158      | 58  | 134     | 45  | 150      | 81  | 154       | 71  |
| DAY   | APRIL   |     | MAY      |     | JUNE     |     | JULY    |     | AUGUST   |     | SEPTEMBER |     |
|       | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | 86      | 73  | 162      | 144 | 121      | 115 | 95      | 88  | 179      | 166 | 208       | 195 |
| 2     | 95      | 84  | 151      | 137 | 133      | 122 | 98      | 93  | 173      | 158 | 244       | 201 |
| 3     | 90      | 80  | 144      | 135 | 134      | 126 | 97      | 73  | 195      | 159 | 219       | 199 |
| 4     | 101     | 90  | 160      | 143 | 136      | 126 | 75      | 67  | 192      | 179 | 212       | 196 |
| 5     | 112     | 99  | 157      | 142 | 144      | 131 | 68      | 63  | 217      | 175 | 193       | 182 |
| 6     | ---     | --- | 164      | 150 | 135      | 112 | 65      | 61  | 227      | 210 | 187       | 177 |
| 7     | ---     | --- | 159      | 119 | 132      | 119 | 71      | 63  | 216      | 190 | 196       | 176 |
| 8     | 125     | 110 | 138      | 118 | 144      | 131 | 72      | 67  | 179      | 148 | 239       | 189 |
| 9     | 130     | 122 | 140      | 118 | 160      | 142 | 83      | 76  | 151      | 131 | 258       | 228 |
| 10    | 128     | 121 | 129      | 116 | 159      | 153 | 93      | 86  | 180      | 137 | 267       | 237 |
| 11    | 127     | 121 | 151      | 129 | ---      | --- | 99      | 95  | 198      | 179 | 263       | 237 |
| 12    | 123     | 114 | 142      | 127 | ---      | --- | 107     | 101 | 213      | 190 | 250       | 216 |
| 13    | 127     | 117 | 139      | 132 | ---      | --- | 117     | 112 | 232      | 210 | 215       | 201 |
| 14    | 128     | 119 | 145      | 126 | ---      | --- | 124     | 120 | 227      | 218 | 258       | 198 |
| 15    | 133     | 124 | 123      | 99  | ---      | --- | 131     | 125 | 224      | 194 | 290       | 254 |
| 16    | 139     | 130 | 99       | 82  | ---      | --- | 142     | 127 | 204      | 175 | 300       | 280 |
| 17    | 135     | 129 | 91       | 82  | 251      | 175 | 140     | 128 | 214      | 180 | 310       | 290 |
| 18    | 134     | 122 | 107      | 94  | 182      | 168 | 130     | 117 | 232      | 212 | 310       | 284 |
| 19    | 145     | 134 | 115      | 108 | 175      | 159 | 127     | 114 | 248      | 222 | 290       | 250 |
| 20    | 155     | 137 | 118      | 113 | 153      | 108 | 156     | 125 | 257      | 229 | 250       | 224 |
| 21    | 169     | 149 | 124      | 120 | 109      | 93  | 158     | 130 | 262      | 243 | 270       | 220 |
| 22    | 179     | 158 | 130      | 124 | 108      | 93  | 160     | 131 | 259      | 225 | 280       | 268 |
| 23    | 181     | 163 | 129      | 124 | 116      | 106 | 165     | 146 | 224      | 206 | 264       | 244 |
| 24    | 171     | 160 | 140      | 126 | ---      | --- | 175     | 160 | 257      | 197 | 260       | 234 |
| 25    | 172     | 156 | 148      | 135 | ---      | --- | 167     | 156 | 271      | 248 | 274       | 254 |
| 26    | 159     | 145 | 147      | 139 | ---      | --- | 157     | 150 | 267      | 234 | 264       | 238 |
| 27    | 169     | 149 | 149      | 141 | 123      | 116 | 198     | 155 | 272      | 213 | 240       | 228 |
| 28    | 167     | 142 | 151      | 122 | 130      | 120 | 207     | 142 | 211      | 182 | 254       | 200 |
| 29    | 150     | 142 | 127      | 104 | 133      | 91  | 162     | 138 | 191      | 162 | 194       | 149 |
| 30    | 156     | 146 | 111      | 101 | 106      | 89  | 191     | 159 | 169      | 139 | ---       | --- |
| 31    | ---     | --- | 115      | 104 | ---      | --- | 182     | 173 | 197      | 161 | ---       | --- |
| MONTH | 181     | 73  | 164      | 82  | ---      | --- | 207     | 61  | 272      | 131 | 310       | 149 |

## MOBILE RIVER BASIN

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

|       | OCTOBER |     | NOVEMBER |     | DECEMBER |     | JANUARY |     | FEBRUARY |     | MARCH     |     |
|-------|---------|-----|----------|-----|----------|-----|---------|-----|----------|-----|-----------|-----|
| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | 7.3     | 7.1 | 7.4      | 7.3 | 7.5      | 7.3 | 7.2     | 7.0 | 7.5      | 7.3 | 7.6       | 7.3 |
| 2     | 7.1     | 6.9 | 7.5      | 7.4 | 7.3      | 7.1 | 7.0     | 7.0 | 7.5      | 7.4 | 7.5       | 7.4 |
| 3     | 7.0     | 6.9 | 7.5      | 7.5 | 7.3      | 7.2 | 7.2     | 7.0 | 7.5      | 7.4 | 7.5       | 7.4 |
| 4     | 7.2     | 6.9 | 7.5      | 7.4 | 7.4      | 7.3 | 7.2     | 7.2 | 7.5      | 7.4 | 7.4       | 7.3 |
| 5     | 7.3     | 7.2 | 7.4      | 7.3 | 7.4      | 7.4 | 7.2     | 7.1 | 7.6      | 7.4 | 7.4       | 7.3 |
| 6     | 7.4     | 7.3 | 7.4      | 7.3 | 7.5      | 7.4 | 7.4     | 7.2 | 7.5      | 7.5 | 7.3       | 7.1 |
| 7     | 7.4     | 7.3 | 7.4      | 7.3 | 7.6      | 7.5 | 7.4     | 7.3 | 7.5      | 7.5 | 7.2       | 7.1 |
| 8     | 7.3     | 7.3 | 7.3      | 7.1 | 7.6      | 7.5 | 7.5     | 7.3 | 7.6      | 7.5 | 7.3       | 7.2 |
| 9     | 7.3     | 7.3 | 7.3      | 7.2 | 7.6      | 7.5 | 7.5     | 7.3 | 7.6      | 7.5 | 7.2       | 7.0 |
| 10    | 7.3     | 7.2 | 7.3      | 7.3 | 7.6      | 7.5 | 7.5     | 7.3 | 7.6      | 7.5 | 7.0       | 6.9 |
| 11    | 7.3     | 7.2 | 7.3      | 7.3 | 7.6      | 7.5 | 7.5     | 7.3 | 7.6      | 7.6 | 6.9       | 6.9 |
| 12    | 7.4     | 7.3 | 7.3      | 7.1 | 7.5      | 7.4 | 7.6     | 7.4 | 7.6      | 7.5 | 7.0       | 6.9 |
| 13    | 7.4     | 7.4 | 7.2      | 7.1 | 7.5      | 7.5 | 7.5     | 7.5 | 7.6      | 7.5 | 7.0       | 7.0 |
| 14    | 7.4     | 7.4 | 7.2      | 7.1 | 7.6      | 7.5 | 7.6     | 7.4 | 7.6      | 7.5 | 7.1       | 7.0 |
| 15    | 7.4     | 7.4 | 7.2      | 7.1 | 7.6      | 7.6 | 7.5     | 7.3 | 7.7      | 7.6 | 7.1       | 7.1 |
| 16    | 7.4     | 7.4 | 7.3      | 7.2 | 7.6      | 7.5 | 7.4     | 7.3 | 7.7      | 7.6 | 7.2       | 7.1 |
| 17    | 7.4     | 7.0 | 7.4      | 7.3 | 7.5      | 7.5 | 7.5     | 7.3 | 7.7      | 7.6 | 7.2       | 7.1 |
| 18    | 7.1     | 7.0 | 7.4      | 7.3 | 7.5      | 7.5 | 7.5     | 7.4 | 7.6      | 7.3 | 7.1       | 7.1 |
| 19    | 7.0     | 6.9 | 7.4      | 7.3 | 7.5      | 7.4 | 7.5     | 7.4 | 7.4      | 7.2 | 7.2       | 7.1 |
| 20    | 7.1     | 6.9 | 7.4      | 7.4 | 7.5      | 7.4 | 7.5     | 7.4 | 7.2      | 7.1 | 7.3       | 7.2 |
| 21    | 7.2     | 7.1 | 7.4      | 7.3 | 7.5      | 7.5 | 7.5     | 7.4 | 7.3      | 7.1 | 7.3       | 7.2 |
| 22    | 7.2     | 7.2 | 7.4      | 7.3 | 7.6      | 7.5 | 7.5     | 7.4 | 7.3      | 7.3 | 7.2       | 7.0 |
| 23    | 7.3     | 7.2 | 7.5      | 7.4 | 7.6      | 7.5 | 7.7     | 7.4 | 7.3      | 7.3 | 7.0       | 7.0 |
| 24    | 7.3     | 7.3 | 7.5      | 7.4 | 7.6      | 7.5 | 7.8     | 7.6 | 7.3      | 7.3 | 7.2       | 7.0 |
| 25    | 7.4     | 7.3 | 7.5      | 7.4 | 7.6      | 7.3 | 7.8     | 7.7 | 7.4      | 7.3 | 7.2       | 7.1 |
| 26    | 7.5     | 7.3 | 7.4      | 7.4 | 7.3      | 7.1 | 7.8     | 7.3 | 7.4      | 7.3 | 7.3       | 7.2 |
| 27    | 7.5     | 7.4 | 7.5      | 7.4 | 7.1      | 7.0 | 7.3     | 7.0 | 7.4      | 7.4 | 7.4       | 7.2 |
| 28    | 7.4     | 7.3 | 7.5      | 7.4 | 7.0      | 6.9 | 7.0     | 6.9 | 7.5      | 7.4 | 7.3       | 7.3 |
| 29    | 7.4     | 7.3 | 7.6      | 7.5 | 7.3      | 6.9 | 7.1     | 7.0 | 7.5      | 7.4 | 7.3       | 7.2 |
| 30    | 7.4     | 7.3 | 7.6      | 7.5 | 7.3      | 7.3 | 7.2     | 7.0 | ---      | --- | 7.2       | 7.0 |
| 31    | 7.4     | 7.3 | ---      | --- | 7.3      | 7.2 | 7.3     | 7.2 | ---      | --- | 6.9       | 6.7 |
| MONTH | 7.5     | 6.9 | 7.6      | 7.1 | 7.6      | 6.9 | 7.8     | 6.9 | 7.7      | 7.1 | 7.6       | 6.7 |
|       | APRIL   |     | MAY      |     | JUNE     |     | JULY    |     | AUGUST   |     | SEPTEMBER |     |
| DAY   | MAX     | MIN | MAX      | MIN | MAX      | MIN | MAX     | MIN | MAX      | MIN | MAX       | MIN |
| 1     | 6.8     | 6.7 | 7.3      | 7.3 | 7.1      | 7.0 | 6.9     | 6.8 | 6.9      | 6.9 | 7.1       | 7.0 |
| 2     | 6.9     | 6.8 | 7.4      | 7.3 | 7.2      | 7.0 | 7.0     | 6.9 | 7.4      | 6.9 | 7.1       | 7.0 |
| 3     | 7.1     | 6.9 | 7.5      | 7.4 | 7.1      | 7.0 | 7.1     | 6.6 | 7.4      | 7.2 | 7.1       | 7.1 |
| 4     | 7.2     | 7.0 | 7.5      | 7.4 | 7.1      | 7.0 | 6.7     | 6.5 | 7.3      | 7.3 | 7.1       | 7.1 |
| 5     | 7.0     | 6.8 | 7.4      | 7.3 | 7.2      | 7.0 | 6.5     | 6.3 | 7.3      | 7.2 | 7.1       | 7.1 |
| 6     | 7.0     | 6.8 | 7.4      | 7.3 | 7.2      | 7.1 | 6.4     | 6.3 | 7.2      | 7.1 | 7.2       | 7.1 |
| 7     | 7.1     | 6.9 | 7.6      | 7.0 | 7.2      | 7.1 | 6.5     | 6.4 | 7.2      | 7.2 | 7.2       | 7.1 |
| 8     | 7.2     | 6.8 | 7.3      | 7.1 | 7.2      | 7.1 | 6.6     | 6.4 | 7.3      | 7.2 | 7.2       | 7.1 |
| 9     | 7.2     | 7.2 | 7.3      | 7.3 | 7.3      | 7.1 | 6.9     | 6.5 | 7.3      | 7.2 | 7.1       | 7.0 |
| 10    | 7.2     | 7.2 | 7.3      | 7.3 | 7.3      | 7.0 | 7.1     | 6.9 | 7.2      | 7.1 | 7.1       | 7.1 |
| 11    | 7.3     | 7.3 | 7.3      | 7.2 | ---      | --- | 7.2     | 7.1 | 7.1      | 7.1 | 7.1       | 7.1 |
| 12    | 7.4     | 7.3 | 7.3      | 7.2 | ---      | --- | 7.2     | 7.1 | 7.1      | 7.1 | 7.2       | 7.1 |
| 13    | 7.4     | 7.3 | 7.2      | 7.2 | ---      | --- | 7.2     | 7.1 | 7.1      | 7.1 | 7.2       | 7.1 |
| 14    | 7.3     | 7.3 | 7.2      | 7.1 | ---      | --- | 7.1     | 7.1 | 7.1      | 7.1 | 7.3       | 7.1 |
| 15    | 7.3     | 7.3 | 7.1      | 6.9 | ---      | --- | 7.1     | 7.0 | 7.2      | 7.1 | 7.3       | 7.2 |
| 16    | 7.3     | 7.3 | 6.9      | 6.7 | ---      | --- | 7.1     | 7.0 | 7.3      | 7.2 | 7.3       | 7.2 |
| 17    | 7.4     | 7.3 | 6.7      | 6.6 | 7.2      | 7.1 | 7.1     | 7.0 | 7.3      | 7.1 | 7.3       | 7.2 |
| 18    | 7.4     | 7.4 | 7.0      | 6.7 | 7.1      | 7.1 | 7.1     | 7.0 | 7.2      | 7.1 | 7.3       | 7.1 |
| 19    | 7.4     | 7.4 | 7.2      | 7.0 | 7.2      | 7.1 | 7.1     | 7.1 | 7.2      | 7.1 | 7.2       | 7.1 |
| 20    | 7.4     | 7.3 | 7.2      | 7.1 | 7.2      | 7.0 | 7.1     | 7.0 | 7.3      | 7.2 | 7.2       | 7.1 |
| 21    | 7.4     | 7.2 | 7.2      | 7.2 | 7.0      | 6.8 | 7.0     | 7.0 | 7.2      | 7.1 | 7.2       | 7.1 |
| 22    | 7.3     | 7.3 | 7.3      | 7.2 | 6.9      | 6.8 | 7.0     | 6.9 | 7.2      | 7.1 | 7.2       | 7.1 |
| 23    | 7.3     | 7.2 | 7.4      | 7.3 | 7.1      | 6.9 | 7.0     | 6.9 | 7.2      | 7.2 | 7.3       | 7.2 |
| 24    | 7.3     | 7.3 | 7.4      | 7.3 | ---      | --- | 7.0     | 6.9 | 7.2      | 7.1 | 7.3       | 7.1 |
| 25    | 7.3     | 7.3 | 7.3      | 7.3 | ---      | --- | 7.0     | 6.9 | 7.2      | 7.1 | 7.3       | 7.2 |
| 26    | 7.4     | 7.3 | 7.2      | 7.0 | ---      | --- | 7.0     | 7.0 | 7.1      | 7.1 | 7.2       | 7.2 |
| 27    | 7.4     | 7.3 | 7.2      | 7.1 | 7.2      | 6.9 | 7.0     | 6.9 | 7.1      | 7.0 | 7.2       | 7.2 |
| 28    | 7.4     | 7.3 | 7.2      | 6.9 | 7.3      | 7.0 | 6.9     | 6.8 | 7.1      | 7.0 | 7.2       | 7.1 |
| 29    | 7.4     | 7.3 | 7.1      | 6.9 | 7.2      | 6.7 | 6.8     | 6.7 | 7.1      | 7.0 | 7.2       | 7.0 |
| 30    | 7.4     | 7.3 | 6.9      | 6.8 | 7.0      | 6.8 | 6.8     | 6.7 | 7.1      | 6.9 | ---       | --- |
| 31    | ---     | --- | 7.0      | 6.8 | ---      | --- | 6.9     | 6.8 | 7.1      | 7.0 | ---       | --- |
| MONTH | 7.4     | 6.7 | 7.6      | 6.6 | ---      | --- | 7.2     | 6.3 | 7.4      | 6.9 | 7.3       | 7.0 |

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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



02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

## DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DAY   | OCTOBER |     | NOVEMBER |      | DECEMBER |      | JANUARY |      | FEBRUARY |      | MARCH     |      |
|-------|---------|-----|----------|------|----------|------|---------|------|----------|------|-----------|------|
|       | MAX     | MIN | MAX      | MIN  | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX       | MIN  |
| 1     | ---     | --- | 8.4      | 7.6  | 9.4      | 8.1  | 7.2     | 6.3  | 10.7     | 10.4 | 10.1      | 9.7  |
| 2     | ---     | --- | 8.8      | 8.6  | 9.7      | 9.4  | 7.3     | 7.0  | 10.7     | 10.4 | 9.7       | 9.2  |
| 3     | ---     | --- | 9.1      | 8.9  | 10.2     | 9.9  | 9.9     | 6.7  | 10.8     | 10.6 | 9.2       | 8.6  |
| 4     | ---     | --- | 9.0      | 8.4  | 10.3     | 10.1 | 10.5    | 9.9  | 10.8     | 10.6 | 8.7       | 8.2  |
| 5     | ---     | --- | 8.5      | 7.7  | 10.2     | 9.8  | 11.3    | 10.5 | 11.3     | 11.0 | 8.3       | 7.8  |
| 6     | ---     | --- | 8.2      | 7.8  | 10.0     | 9.6  | 11.7    | 11.4 | 11.0     | 10.4 | 8.6       | 7.7  |
| 7     | ---     | --- | 8.3      | 7.1  | 9.8      | 9.0  | 11.5    | 11.2 | 11.0     | 10.4 | 9.3       | 8.6  |
| 8     | ---     | --- | 7.9      | 7.4  | 9.2      | 8.8  | 11.2    | 11.0 | 11.6     | 11.1 | 9.8       | 9.4  |
| 9     | ---     | --- | 8.1      | 7.8  | 9.2      | 8.7  | 11.6    | 11.1 | 11.9     | 11.6 | 10.1      | 9.8  |
| 10    | ---     | --- | 8.2      | 7.9  | 9.9      | 9.0  | 12.0    | 11.7 | 11.8     | 11.6 | 10.0      | 10.0 |
| 11    | ---     | --- | 8.1      | 7.5  | 10.9     | 10.2 | 12.1    | 11.8 | 11.7     | 11.1 | 10.1      | 9.5  |
| 12    | ---     | --- | 7.6      | 7.2  | 11.6     | 11.1 | 11.9    | 11.4 | 11.1     | 10.9 | 9.8       | 9.6  |
| 13    | ---     | --- | 8.2      | 7.1  | 11.4     | 11.2 | 11.5    | 10.8 | 10.9     | 10.5 | 9.8       | 9.5  |
| 14    | ---     | --- | 9.5      | 8.3  | 11.2     | 10.6 | 10.9    | 10.4 | 10.5     | 10.2 | 10.0      | 9.6  |
| 15    | ---     | --- | 10.2     | 9.6  | 10.6     | 9.8  | 10.9    | 10.5 | 10.3     | 10.0 | 10.3      | 10.1 |
| 16    | ---     | --- | 10.5     | 10.2 | 9.7      | 8.7  | 11.1    | 11.0 | 10.2     | 10.0 | 10.2      | 9.8  |
| 17    | ---     | --- | 10.5     | 10.2 | 9.2      | 8.8  | 11.3    | 11.1 | 10.1     | 9.5  | 10.3      | 10.2 |
| 18    | ---     | --- | 10.2     | 9.7  | 9.9      | 9.1  | 11.9    | 11.3 | 9.4      | 8.9  | 10.6      | 10.4 |
| 19    | ---     | --- | 9.7      | 9.1  | 10.6     | 9.9  | 12.3    | 12.1 | 9.5      | 9.0  | 10.5      | 10.0 |
| 20    | ---     | --- | 9.4      | 8.6  | 11.0     | 10.6 | 12.4    | 12.1 | 9.7      | 9.5  | 10.1      | 9.6  |
| 21    | ---     | --- | 8.6      | 7.8  | 11.0     | 10.8 | 12.1    | 11.8 | 10.2     | 9.8  | 9.6       | 8.9  |
| 22    | ---     | --- | 8.7      | 8.0  | 10.8     | 10.3 | 12.0    | 11.8 | 10.1     | 9.9  | 9.3       | 9.1  |
| 23    | ---     | --- | 8.9      | 8.6  | 10.4     | 10.1 | 12.0    | 11.2 | 10.8     | 10.1 | 9.8       | 9.3  |
| 24    | ---     | --- | 9.8      | 9.0  | 10.2     | 9.9  | 11.2    | 10.9 | 11.2     | 10.9 | 10.0      | 9.7  |
| 25    | ---     | --- | 9.7      | 9.4  | 9.9      | 9.0  | 10.9    | 10.4 | 11.2     | 11.0 | 9.8       | 9.3  |
| 26    | ---     | --- | 10.0     | 9.6  | 9.9      | 9.0  | 10.4    | 9.0  | 11.0     | 10.5 | 9.4       | 9.0  |
| 27    | ---     | --- | 9.9      | 9.6  | 10.4     | 9.9  | 9.3     | 9.0  | 10.4     | 9.9  | 9.0       | 8.7  |
| 28    | ---     | --- | 10.3     | 9.6  | 10.3     | 9.2  | 10.0    | 9.3  | 10.0     | 9.7  | 9.2       | 9.0  |
| 29    | ---     | --- | 10.4     | 9.7  | 9.2      | 8.8  | 10.3    | 10.1 | 10.1     | 9.9  | 9.3       | 9.1  |
| 30    | 7.8     | 7.6 | 9.7      | 8.7  | 8.8      | 7.5  | 10.5    | 10.1 | ---      | ---  | 9.0       | 8.4  |
| 31    | 7.8     | 7.2 | ---      | ---  | 7.3      | 6.3  | 10.7    | 10.5 | ---      | ---  | 8.3       | 7.8  |
| MONTH | ---     | --- | 10.5     | 7.1  | 11.6     | 6.3  | 12.4    | 6.3  | 11.9     | 8.9  | 10.6      | 7.7  |
| DAY   | APRIL   |     | MAY      |      | JUNE     |      | JULY    |      | AUGUST   |      | SEPTEMBER |      |
|       | MAX     | MIN | MAX      | MIN  | MAX      | MIN  | MAX     | MIN  | MAX      | MIN  | MAX       | MIN  |
| 1     | 8.6     | 7.9 | 8.1      | 6.7  | 7.7      | 7.3  | 7.1     | 6.9  | 5.9      | 4.8  | 4.9       | 4.7  |
| 2     | 9.3     | 8.7 | 8.3      | 7.6  | 7.3      | 6.9  | 7.1     | 6.9  | 6.4      | 6.0  | 5.3       | 4.2  |
| 3     | 9.7     | 9.3 | 8.5      | 8.4  | 7.2      | 6.7  | 7.6     | 6.9  | 6.5      | 5.6  | 5.7       | 4.9  |
| 4     | 9.5     | 9.3 | 8.6      | 8.1  | 7.0      | 6.6  | 7.4     | 6.8  | 5.9      | 5.7  | 5.4       | 4.9  |
| 5     | ---     | --- | 8.7      | 8.3  | 7.3      | 6.6  | 6.8     | 6.3  | 6.0      | 4.3  | 5.3       | 5.0  |
| 6     | ---     | --- | 8.6      | 7.9  | 7.8      | 7.4  | 6.5     | 6.2  | 4.3      | 3.7  | 5.7       | 5.4  |
| 7     | ---     | --- | 8.2      | 6.4  | 7.9      | 7.5  | 6.6     | 6.3  | 4.7      | 4.3  | 5.6       | 5.5  |
| 8     | 9.4     | 9.0 | 8.3      | 7.7  | 7.9      | 7.2  | 6.6     | 6.1  | 5.7      | 5.0  | 5.7       | 4.7  |
| 9     | 9.0     | 8.7 | 8.6      | 8.4  | 7.6      | 6.7  | 7.3     | 6.2  | 5.9      | 5.7  | 4.7       | 4.0  |
| 10    | 9.3     | 8.9 | 8.8      | 8.5  | 6.9      | 6.5  | 7.5     | 7.3  | 5.8      | 4.7  | 4.2       | 3.7  |
| 11    | 9.4     | 9.2 | 8.6      | 7.3  | ---      | ---  | 7.5     | 7.2  | 4.9      | 4.1  | 4.4       | 3.9  |
| 12    | 9.3     | 8.8 | 8.0      | 7.1  | ---      | ---  | 7.3     | 7.1  | 5.0      | 4.2  | 5.0       | 4.4  |
| 13    | 8.9     | 8.3 | 7.2      | 6.9  | ---      | ---  | 7.1     | 6.7  | 4.5      | 3.9  | 6.1       | 5.2  |
| 14    | 8.8     | 8.6 | 7.2      | 6.2  | ---      | ---  | 6.8     | 6.6  | 5.0      | 4.7  | 6.1       | 5.4  |
| 15    | 8.7     | 8.3 | 7.5      | 7.0  | ---      | ---  | 6.8     | 6.5  | 5.3      | 5.1  | 5.8       | 4.2  |
| 16    | 8.4     | 7.8 | 7.4      | 7.3  | ---      | ---  | 6.6     | 6.4  | 5.9      | 5.3  | 4.9       | 3.6  |
| 17    | 8.2     | 7.9 | 7.5      | 7.3  | 6.2      | 5.8  | 6.8     | 6.5  | 6.0      | 4.9  | 4.5       | 3.2  |
| 18    | 8.3     | 8.2 | 7.9      | 6.9  | 6.0      | 5.5  | 7.2     | 6.7  | 5.6      | 4.5  | 4.4       | 3.2  |
| 19    | 8.4     | 8.3 | 8.1      | 7.9  | 6.3      | 5.7  | 7.4     | 7.2  | 5.2      | 4.2  | 4.6       | 3.5  |
| 20    | 8.4     | 7.7 | 8.1      | 7.7  | 7.4      | 6.1  | 7.2     | 6.8  | 5.1      | 4.3  | 5.3       | 4.1  |
| 21    | 8.0     | 7.0 | 7.8      | 7.3  | 7.9      | 7.5  | 7.1     | 6.6  | 4.9      | 4.3  | 5.4       | 4.3  |
| 22    | 7.5     | 7.2 | 7.3      | 6.8  | 7.7      | 7.2  | 6.7     | 6.4  | 4.7      | 4.3  | 5.0       | 4.7  |
| 23    | 7.6     | 7.3 | 6.9      | 6.7  | 7.6      | 7.1  | 6.5     | 5.9  | 4.8      | 4.3  | 5.3       | 4.8  |
| 24    | 7.8     | 7.4 | 7.1      | 6.7  | ---      | ---  | 6.0     | 5.6  | 4.9      | 3.8  | 5.6       | 4.4  |
| 25    | 7.9     | 6.9 | 6.8      | 6.4  | ---      | ---  | 5.7     | 5.5  | 3.8      | 3.3  | 5.1       | 4.4  |
| 26    | 7.9     | 7.4 | 7.2      | 6.4  | ---      | ---  | 5.8     | 5.6  | 4.1      | 3.5  | 4.9       | 4.3  |
| 27    | 8.2     | 7.6 | 7.4      | 7.1  | 6.9      | 6.7  | 5.7     | 5.0  | 4.2      | 1.8  | 4.6       | 4.0  |
| 28    | 8.4     | 8.2 | 7.5      | 6.8  | 7.0      | 6.1  | 5.1     | 3.7  | 4.6      | 3.9  | 4.8       | 3.0  |
| 29    | 8.5     | 7.9 | 7.6      | 7.0  | 6.5      | 5.8  | 4.6     | 3.8  | 5.1      | 4.7  | 5.6       | 4.7  |
| 30    | 8.2     | 7.8 | 7.8      | 7.6  | 6.9      | 6.4  | 4.1     | 3.8  | 5.2      | 4.0  | ---       | ---  |
| 31    | ---     | --- | 7.8      | 7.7  | ---      | ---  | 4.7     | 4.1  | 5.0      | 4.7  | ---       | ---  |
| MONTH | 9.7     | 6.9 | 8.8      | 6.2  | ---      | ---  | 7.6     | 3.7  | 6.5      | 1.8  | 6.1       | 3.0  |



02387050 CONASAUGA RIVER NEAR RESACA, GA.

LOCATION.--Lat 34°35'36", long 84°56'02", Gordon County, 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                               |               |                             |                                    |
| 14... | 1345 | 826                                           | 7.6           | 19.0                        | 7.5                                |
| NOV.  |      |                                               |               |                             |                                    |
| 24... | 1200 | 1140                                          | 7.5           | 8.0                         | 4.5                                |
| JAN.  |      |                                               |               |                             |                                    |
| 05... | 1520 | 2740                                          | 7.2           | 5.5                         | 12.0                               |
| FEB.  |      |                                               |               |                             |                                    |
| 17... | 1545 | 710                                           | 7.7           | 13.5                        | 9.4                                |
| MAR.  |      |                                               |               |                             |                                    |
| 15... | 1300 | 2800                                          | 7.3           | 8.0                         | 10.2                               |
| APR.  |      |                                               |               |                             |                                    |
| 13... | 1100 | 924                                           | 7.5           | 11.5                        | 8.0                                |
| MAY   |      |                                               |               |                             |                                    |
| 11... | 1205 | 697                                           | 7.4           | 17.0                        | 7.0                                |
| JUNE  |      |                                               |               |                             |                                    |
| 14... | 1150 | 439                                           | 7.6           | 23.0                        | 5.8                                |
| JULY  |      |                                               |               |                             |                                    |
| 19... | 1400 | 601                                           | 7.5           | 23.0                        | 6.7                                |
| AUG.  |      |                                               |               |                             |                                    |
| 23... | 1405 | 208                                           | 7.4           | 25.5                        | 3.7                                |
| SEP.  |      |                                               |               |                             |                                    |
| 27... | 1330 | 190                                           | 7.2           | 21.5                        | 4.3                                |

| DATE  | ALKA-<br>LINITY<br>AS<br>CaCO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) |
|-------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|
| OCT.  |                                          |                                                      |                                                    |                                           |                                     |
| 14... | 54                                       | .65                                                  | .10                                                | .54                                       | 60                                  |
| NOV.  |                                          |                                                      |                                                    |                                           |                                     |
| 24... | 48                                       | .16                                                  | .04                                                | .10                                       | 52                                  |
| JAN.  |                                          |                                                      |                                                    |                                           |                                     |
| 05... | 31                                       | .32                                                  | .60                                                | .10                                       | 36                                  |
| FEB.  |                                          |                                                      |                                                    |                                           |                                     |
| 17... | 62                                       | .45                                                  | .04                                                | .36                                       | 65                                  |
| MAR.  |                                          |                                                      |                                                    |                                           |                                     |
| 15... | 38                                       | .22                                                  | .05                                                | .09                                       | 42                                  |
| APR.  |                                          |                                                      |                                                    |                                           |                                     |
| 13... | 55                                       | .50                                                  | .05                                                | .25                                       | 48                                  |
| MAY   |                                          |                                                      |                                                    |                                           |                                     |
| 11... | 46                                       | .60                                                  | .06                                                | .38                                       | 53                                  |
| JUNE  |                                          |                                                      |                                                    |                                           |                                     |
| 14... | 62                                       | .31                                                  | .06                                                | .23                                       | 63                                  |
| JULY  |                                          |                                                      |                                                    |                                           |                                     |
| 19... | 55                                       | .33                                                  | .03                                                | .16                                       | 58                                  |
| AUG.  |                                          |                                                      |                                                    |                                           |                                     |
| 23... | 76                                       | .53                                                  | .13                                                | .79                                       | 84                                  |
| SEP.  |                                          |                                                      |                                                    |                                           |                                     |
| 27... | 88                                       | .44                                                  | .16                                                | 1.4                                       | 90                                  |

## MOBILE RIVER BASIN

02387050 CONASAUGA RIVER NEAR RESACA, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>14... | 140                                                        | 25                                           | 16                           | --                                                           | --                                               | 13                                          |
| NOV.<br>24... | 119                                                        | 15                                           | 15                           | .5                                                           | --                                               | 4.0                                         |
| JAN.<br>05... | 86                                                         | 40                                           | 21                           | .9                                                           | 91                                               | 6.0                                         |
| FEB.<br>17... | 157                                                        | 25                                           | 14                           | .7                                                           | 1500                                             | 5.0                                         |
| MAR.<br>15... | 96                                                         | 20                                           | 23                           | .7                                                           | 430                                              | 4.0                                         |
| APR.<br>13... | 139                                                        | 25                                           | 15                           | .9                                                           | 2300                                             | 3.0                                         |
| MAY<br>11...  | 132                                                        | 40                                           | 34                           | 2.4                                                          | 93000                                            | 15                                          |
| JUNE<br>14... | 146                                                        | 10                                           | 14                           | .7                                                           | 210                                              | 3.0                                         |
| JULY<br>19... | 130                                                        | 8                                            | 27                           | .6                                                           | 430                                              | 3.0                                         |
| AUG.<br>23... | 213                                                        | 40                                           | 12                           | .8                                                           | 150                                              | 10                                          |
| SEP.<br>27... | 260                                                        | 70                                           | 12                           | 1.1                                                          | 2300                                             | 8.0                                         |

## 02387500 OOSTANULA RIVER AT RESACA, GA.

LOCATION.--Lat 34°34'42", long 84°56'29", Gordon County, 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 mi<sup>2</sup> (4,170 km<sup>2</sup>), 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 stations 02381400, 02382400).

AVERAGE DISCHARGE.--84 years, 2,798 ft<sup>3</sup>/s (79.2 m<sup>3</sup>/s), 23.60 in/yr (599.4 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,800 ft<sup>3</sup>/s (1,550 m<sup>3</sup>/s) Mar. 31, 1951; maximum gage height, 34.6 ft (10.55 m) Mar. 31, 1951; minimum discharge observed, 180 ft<sup>3</sup>/s (5.10 m<sup>3</sup>/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 ft<sup>3</sup>/s (1,940 m<sup>3</sup>/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,500 ft<sup>3</sup>/s (524 m<sup>3</sup>/s) Apr. 2; maximum gage height, 23.58 ft (7.187 m) Apr. 2; minimum discharge, 469 ft<sup>3</sup>/s (13.3 m<sup>3</sup>/s) Sept. 12, gage height, 1.58 ft (0.482 m).

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

| DAY               | OCT     | NOV   | DEC    | JAN    | FEB   | MAR    | APR    | MAY    | JUN   | JUL    | AUG   | SEP   |       |
|-------------------|---------|-------|--------|--------|-------|--------|--------|--------|-------|--------|-------|-------|-------|
| 1                 | 3110    | 1080  | 4590   | 10400  | 5770  | 1720   | 17400  | 1300   | 2880  | 6510   | 1100  | 794   |       |
| 2                 | 8280    | 859   | 6240   | 10100  | 3830  | 2780   | 18000  | 1550   | 2910  | 5130   | 1210  | 748   |       |
| 3                 | 9660    | 718   | 4160   | 10100  | 3810  | 2710   | 15700  | 1730   | 3290  | 4540   | 1040  | 781   |       |
| 4                 | 6750    | 705   | 2940   | 9570   | 3350  | 1660   | 11200  | 1740   | 3360  | 8410   | 829   | 768   |       |
| 5                 | 2790    | 870   | 2280   | 7350   | 3840  | 2220   | 5780   | 1950   | 3140  | 14300  | 784   | 806   |       |
| 6                 | 2010    | 1750  | 2580   | 5170   | 3430  | 4800   | 4560   | 2050   | 3100  | 15100  | 730   | 816   |       |
| 7                 | 2130    | 3610  | 2600   | 4470   | 3460  | 4210   | 5960   | 2930   | 1760  | 15300  | 748   | 756   |       |
| 8                 | 3150    | 4460  | 2580   | 5960   | 3360  | 2650   | 6050   | 3210   | 2680  | 16300  | 1170  | 631   |       |
| 9                 | 5210    | 2760  | 2560   | 6200   | 3250  | 4090   | 5750   | 2130   | 2920  | 14700  | 1130  | 611   |       |
| 10                | 4520    | 1460  | 5420   | 5870   | 4010  | 7240   | 4480   | 1660   | 1870  | 8630   | 897   | 551   |       |
| 11                | 3390    | 1260  | 4790   | 4550   | 2210  | 7990   | 2800   | 1670   | 2660  | 5710   | 1070  | 513   |       |
| 12                | 2180    | 1790  | 3280   | 3340   | 1660  | 6860   | 2240   | 2480   | 3440  | 4920   | 1680  | 526   |       |
| 13                | 1740    | 5030  | 2050   | 2900   | 1620  | 10800  | 3960   | 2760   | 1440  | 4470   | 1670  | 637   |       |
| 14                | 1590    | 6020  | 1650   | 3800   | 2750  | 11800  | 4120   | 2740   | 1240  | 3290   | 1670  | 637   |       |
| 15                | 2120    | 5950  | 1560   | 4760   | 3280  | 7430   | 3990   | 6810   | 1080  | 2110   | 1640  | 1200  |       |
| 16                | 2190    | 2980  | 1840   | 4980   | 1860  | 7320   | 3700   | 10600  | 1070  | 2860   | 982   | 713   |       |
| 17                | 3390    | 1690  | 2950   | 4420   | 2360  | 11700  | 2720   | 10500  | 1080  | 2910   | 910   | 696   |       |
| 18                | 6140    | 1800  | 2690   | 4260   | 2300  | 11700  | 1600   | 9120   | 1110  | 2620   | 1110  | 625   |       |
| 19                | 5700    | 1830  | 2120   | 4600   | 5580  | 8820   | 1460   | 5500   | 1190  | 1560   | 784   | 588   |       |
| 20                | 3810    | 1410  | 1950   | 4440   | 5640  | 6260   | 1440   | 4840   | 3710  | 1460   | 622   | 619   |       |
| 21                | 2320    | 2230  | 2040   | 4320   | 4300  | 7260   | 3450   | 4660   | 5170  | 1820   | 592   | 927   |       |
| 22                | 2330    | 2690  | 1770   | 3810   | 4230  | 8470   | 3770   | 4660   | 3370  | 2430   | 638   | 1140  |       |
| 23                | 2200    | 2320  | 1670   | 2070   | 4090  | 7210   | 2650   | 3460   | 2760  | 2660   | 638   | 677   |       |
| 24                | 2270    | 2270  | 1510   | 1900   | 3880  | 5680   | 2700   | 2560   | 2840  | 2600   | 1810  | 1070  |       |
| 25                | 2170    | 3410  | 1610   | 1920   | 2720  | 5060   | 1830   | 2480   | 2880  | 2580   | 2910  | 1270  |       |
| 26                | 2020    | 1810  | 5330   | 6650   | 2100  | 4840   | 1490   | 2240   | 2950  | 1940   | 3280  | 622   |       |
| 27                | 1860    | 1640  | 6800   | 12400  | 1920  | 4960   | 1470   | 1990   | 3200  | 2820   | 3160  | 682   |       |
| 28                | 1800    | 1720  | 7010   | 13400  | 1840  | 5280   | 1370   | 1680   | 2210  | 2250   | 3260  | 1170  |       |
| 29                | 1430    | 2250  | 5350   | 13600  | 1740  | 3620   | 1170   | 5470   | 1860  | 2240   | 1850  | 1330  |       |
| 30                | 1530    | 2320  | 3560   | 12500  | ---   | 9540   | 1150   | 5760   | 3780  | 1760   | 1200  | 1010  |       |
| 31                | 1480    | ---   | 6430   | 7160   | ---   | 14700  | ---    | 4110   | ---   | 1200   | 1600  | ---   |       |
| TOTAL             | 101270  | 70642 | 103910 | 196970 | 94190 | 201380 | 143960 | 116340 | 76950 | 165130 | 42714 | 23914 |       |
| MEAN              | 3267    | 2356  | 3352   | 6354   | 3248  | 6496   | 4799   | 3753   | 2565  | 5327   | 1378  | 797   |       |
| MAX               | 9660    | 6020  | 7010   | 13600  | 5770  | 14700  | 18000  | 10600  | 5170  | 16300  | 3280  | 1330  |       |
| MTN               | 1430    | 705   | 1510   | 1900   | 1620  | 1660   | 1150   | 1300   | 1070  | 1200   | 592   | 513   |       |
| CAL YR 1975 TOTAL | 1177867 |       | MEAN   | 3227   | MAX   | 18200  | MIN    | 483    | MEAN† | 3717   | CFSM† | 2.31  |       |
| WTR YR 1976 TOTAL | 1337420 |       | MEAN   | 3654   | MAX   | 18000  | MIN    | 513    | MEAN† | 3634   | CFSM† | 2.26  |       |
|                   |         |       |        |        |       |        |        |        |       |        | INT†  | 31.36 |       |
|                   |         |       |        |        |       |        |        |        |       |        |       | INT†  | 30.76 |

† Adjusted for change in contents in Carters Lake and re-regulation pool.

02387500 OOSTANAULA RIVER AT RESACA, GA.--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972  
MEAN VALUES

| DAY                                      | OCT  | NOV  | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN  | JUL  | AUG  | SEP  |
|------------------------------------------|------|------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 1                                        | 2.58 | 2.62 | 3.31  | 5.88  | 7.41  | 6.54  | 11.26 | 5.14  | 4.74 | 3.59 | 7.70 | 2.51 |
| 2                                        | 2.52 | 3.10 | 3.10  | 7.51  | 6.97  | 7.59  | 9.68  | 5.03  | 4.50 | 3.39 | 9.33 | 2.48 |
| 3                                        | 2.47 | 4.63 | 4.08  | 11.26 | 7.51  | 11.96 | 8.47  | 5.88  | 4.37 | 3.67 | 8.20 | 2.45 |
| 4                                        | 2.41 | 5.83 | 8.56  | 14.79 | 9.61  | 12.76 | 8.26  | 8.49  | 4.26 | 3.88 | 5.69 | 2.43 |
| 5                                        | 2.41 | 4.38 | 8.41  | 19.65 | 9.07  | 12.47 | 8.26  | 8.91  | 4.16 | 4.28 | 5.12 | 2.57 |
| 6                                        | 2.43 | 3.73 | 6.41  | 21.71 | 7.89  | 9.17  | 7.61  | 7.27  | 4.12 | 6.11 | 4.67 | 2.78 |
| 7                                        | 2.58 | 3.36 | 8.73  | 22.28 | 8.34  | 7.45  | 7.22  | 6.02  | 4.20 | 4.46 | 4.35 | 2.90 |
| 8                                        | 2.58 | 3.15 | 12.91 | 20.25 | 8.80  | 8.43  | 9.11  | 5.81  | 4.37 | 3.75 | 4.05 | 2.57 |
| 9                                        | 2.45 | 3.04 | 11.60 | 14.78 | 8.18  | 10.75 | 10.46 | 6.95  | 4.11 | 3.46 | 3.80 | 2.41 |
| 10                                       | 2.37 | 2.94 | 8.39  | 14.03 | 7.46  | 9.33  | 8.78  | 6.63  | 4.34 | 3.33 | 3.71 | 2.32 |
| 11                                       | 2.37 | 2.88 | 6.04  | 19.01 | 6.98  | 7.91  | 7.66  | 5.97  | 4.19 | 3.25 | 3.88 | 2.23 |
| 12                                       | 2.36 | 2.82 | 5.43  | 21.43 | 6.76  | 7.27  | 7.66  | 5.47  | 3.91 | 3.13 | 3.72 | 2.21 |
| 13                                       | 2.34 | 2.79 | 5.21  | 22.84 | 10.42 | 6.84  | 7.60  | 6.94  | 3.79 | 3.04 | 3.54 | 2.16 |
| 14                                       | 2.31 | 2.76 | 5.69  | 22.56 | 11.99 | 6.74  | 7.16  | 16.32 | 3.71 | 3.08 | 3.53 | 2.10 |
| 15                                       | 2.30 | 2.74 | 5.35  | 19.97 | 10.01 | 6.88  | 6.76  | 18.85 | 3.63 | 3.09 | 3.45 | 2.11 |
| 16                                       | 2.38 | 2.73 | 5.34  | 15.94 | 8.42  | 6.56  | 6.42  | 18.12 | 3.56 | 3.04 | 3.28 | 2.13 |
| 17                                       | 3.25 | 2.68 | 8.72  | 10.38 | 8.24  | 7.06  | 6.22  | 15.55 | 3.55 | 3.02 | 3.14 | 2.04 |
| 18                                       | 2.76 | 2.65 | 9.24  | 8.37  | 9.34  | 7.15  | 5.96  | 9.66  | 3.75 | 3.51 | 3.06 | 2.82 |
| 19                                       | 2.58 | 2.64 | 7.40  | 7.92  | 9.75  | 6.82  | 5.74  | 7.49  | 3.71 | 4.70 | 3.00 | 3.17 |
| 20                                       | 2.41 | 2.69 | 7.40  | 7.65  | 9.43  | 6.50  | 5.62  | 7.53  | 4.80 | 3.61 | 2.91 | 2.89 |
| 21                                       | 2.34 | 2.75 | 11.75 | 7.50  | 8.09  | 6.23  | 5.51  | 6.53  | 8.28 | 3.42 | 2.85 | 2.56 |
| 22                                       | 2.34 | 2.65 | 10.30 | 7.80  | 7.42  | 11.19 | 6.66  | 6.14  | 6.60 | 3.15 | 2.82 | 2.36 |
| 23                                       | 2.62 | 2.63 | 7.66  | 8.42  | 7.09  | 15.23 | 10.27 | 5.92  | 4.72 | 3.09 | 2.75 | 2.27 |
| 24                                       | 3.96 | 2.72 | 6.46  | 8.02  | 6.82  | 11.54 | 9.55  | 5.71  | 4.00 | 3.21 | 2.73 | 2.21 |
| 25                                       | 4.99 | 3.53 | 5.88  | 7.42  | 6.70  | 8.49  | 7.16  | 5.94  | 3.77 | 2.99 | 2.70 | 2.19 |
| 26                                       | 4.11 | 3.36 | 5.49  | 6.90  | 6.90  | 8.32  | 6.27  | 5.57  | 3.68 | 2.99 | 2.77 | 2.28 |
| 27                                       | 3.38 | 3.16 | 5.20  | 6.53  | 7.92  | 7.84  | 5.87  | 5.28  | 3.59 | 3.36 | 3.07 | 2.97 |
| 28                                       | 2.98 | 3.20 | 4.97  | 6.38  | 7.63  | 9.40  | 5.62  | 5.00  | 3.52 | 5.82 | 3.06 | 3.70 |
| 29                                       | 2.79 | 3.12 | 4.78  | 6.60  | 6.87  | 12.58 | 5.41  | 4.83  | 3.72 | 9.87 | 2.88 | 3.33 |
| 30                                       | 2.68 | 3.30 | 4.69  | 7.59  | ---   | 13.96 | 5.27  | 4.76  | 3.79 | 9.99 | 2.67 | 3.11 |
| 31                                       | 2.61 | ---  | 5.59  | 8.14  | ---   | 13.14 | ---   | 4.76  | ---  | 8.81 | 2.58 | ---  |
| MEAN                                     | 2.73 | 3.15 | 6.91  | 12.56 | 8.21  | 9.16  | 7.45  | 7.69  | 4.25 | 4.20 | 3.90 | 2.54 |
| MAX                                      | 4.99 | 5.83 | 12.91 | 22.84 | 11.99 | 15.23 | 11.26 | 18.85 | 8.28 | 9.99 | 9.33 | 3.70 |
| MIN                                      | 2.30 | 2.62 | 3.10  | 5.88  | 6.70  | 6.23  | 5.27  | 4.76  | 3.52 | 2.99 | 2.58 | 2.04 |
| WTR YR 1972 MEAN 6.07 MAX 22.84 MIN 2.04 |      |      |       |       |       |       |       |       |      |      |      |      |

02387500 OOSTANAULA RIVER AT RESACA, GA.--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973  
MEAN VALUES

| DAY  | OCT  | NOV  | DEC   | JAN   | FEB  | MAR   | APR   | MAY   | JUN   | JUL  | AUG  | SEP   |
|------|------|------|-------|-------|------|-------|-------|-------|-------|------|------|-------|
| 1    | 3.88 | 3.40 | 5.30  | 12.34 | 6.54 | 5.10  | 14.99 | 12.50 | 24.63 | 5.11 | 4.05 | 2.95  |
| 2    | 3.89 | 3.20 | 5.19  | 10.52 | 8.07 | 5.06  | 13.35 | 8.42  | 19.47 | 5.04 | 4.32 | 2.91  |
| 3    | 3.08 | 3.80 | 4.78  | 8.51  | 9.89 | 6.66  | 9.51  | 7.85  | 11.47 | 4.91 | 4.31 | 2.83  |
| 4    | 2.71 | 4.86 | 4.48  | ---   | 8.42 | 7.97  | 8.24  | 8.08  | 7.90  | 5.00 | 3.99 | 2.77  |
| 5    | 2.68 | 4.25 | 4.30  | ---   | 7.35 | 8.71  | 7.71  | 7.27  | 7.34  | 5.05 | 3.77 | 2.75  |
| 6    | 3.75 | 3.72 | 4.37  | ---   | 6.96 | 8.70  | 7.19  | 6.76  | 11.27 | 5.29 | 3.68 | 2.68  |
| 7    | 4.06 | 3.55 | 5.18  | ---   | 7.38 | 7.47  | 8.86  | 6.47  | 16.03 | 4.85 | 3.72 | 2.71  |
| 8    | 3.08 | 5.13 | 5.96  | ---   | 7.97 | 7.08  | 16.29 | 9.87  | 16.22 | 5.14 | 3.86 | 2.71  |
| 9    | 2.71 | 6.10 | 5.29  | ---   | 8.89 | 7.93  | 17.28 | 16.44 | 12.13 | 5.09 | 4.04 | 2.71  |
| 10   | 2.57 | 5.13 | 5.77  | ---   | 8.93 | 9.69  | 14.33 | 17.35 | 9.21  | 4.89 | 3.77 | 2.74  |
| 11   | 2.41 | 4.33 | 8.37  | ---   | 8.96 | 9.82  | 9.75  | 14.06 | 9.68  | 4.82 | 3.69 | 2.77  |
| 12   | 2.33 | 3.90 | 10.15 | ---   | 8.05 | 13.70 | 8.28  | 9.61  | 9.64  | 4.97 | 3.76 | 2.69  |
| 13   | 2.29 | 3.65 | 10.41 | ---   | 7.28 | 13.81 | 7.69  | 8.42  | 8.71  | 4.48 | 5.66 | 3.71  |
| 14   | 2.29 | 4.90 | 8.40  | ---   | 7.75 | 11.05 | 7.22  | 7.44  | 7.98  | 4.26 | 4.85 | 12.48 |
| 15   | 2.28 | 6.42 | 13.58 | ---   | 8.88 | 8.44  | 6.85  | 6.87  | 7.71  | 5.77 | 4.80 | 13.45 |
| 16   | 2.25 | 5.46 | 18.65 | ---   | 8.91 | ---   | 6.59  | 6.50  | 8.11  | 6.99 | 4.18 | 7.45  |
| 17   | 2.30 | 4.61 | 19.86 | 6.06  | 8.60 | ---   | 6.44  | 6.24  | 7.83  | 5.84 | 3.81 | 5.02  |
| 18   | 2.49 | 4.16 | 17.88 | 5.86  | 7.43 | ---   | 6.44  | 6.07  | 7.64  | 6.91 | 5.05 | 8.23  |
| 19   | 3.57 | 4.02 | 12.25 | 6.70  | 6.91 | ---   | 6.73  | 5.92  | 7.28  | 6.10 | 5.80 | 7.16  |
| 20   | 4.81 | 4.90 | 7.60  | 9.10  | 6.59 | 27.59 | 6.85  | 10.84 | 7.58  | 5.28 | 4.21 | 5.83  |
| 21   | 3.83 | 5.70 | 9.72  | 8.66  | 6.34 | 25.11 | 6.39  | 12.37 | 6.89  | 4.85 | 3.81 | 4.37  |
| 22   | 3.13 | 5.07 | 15.88 | 9.46  | 6.09 | 20.92 | 6.07  | 8.49  | 7.21  | 4.54 | 3.63 | 3.89  |
| 23   | 2.93 | 4.41 | 16.58 | 11.79 | 5.85 | 13.55 | 5.88  | 7.01  | 6.98  | 4.38 | 3.43 | 3.75  |
| 24   | 3.72 | 4.12 | 15.07 | 10.04 | 5.73 | 8.88  | 6.18  | 8.02  | 6.15  | 5.15 | 3.32 | 3.84  |
| 25   | 3.87 | 3.98 | 11.86 | 8.06  | 5.56 | 8.38  | 8.65  | 10.83 | 5.64  | 5.15 | 3.25 | 3.65  |
| 26   | 3.47 | 4.84 | 8.29  | 7.26  | 5.41 | 8.85  | 11.90 | 9.84  | 5.49  | 6.40 | 3.20 | 3.36  |
| 27   | 3.25 | 5.45 | 7.36  | 8.51  | 5.34 | 8.50  | 16.24 | 8.27  | 5.33  | 5.62 | 3.17 | 3.20  |
| 28   | 3.97 | 5.09 | 6.81  | 9.37  | 5.23 | 7.73  | 19.33 | 19.85 | 5.28  | 5.22 | 3.14 | 3.29  |
| 29   | 4.31 | 4.71 | 6.35  | 8.44  | ---  | 7.23  | 19.61 | 24.86 | 5.70  | 4.95 | 3.06 | 3.72  |
| 30   | 4.12 | 4.67 | 6.00  | 7.59  | ---  | 7.15  | 17.71 | 27.59 | 5.44  | 4.42 | 2.97 | 6.66  |
| 31   | 3.71 | ---  | 8.48  | 6.93  | ---  | 10.12 | ---   | 27.03 | ---   | 4.17 | 2.95 | ---   |
| MEAN | 3.22 | 4.58 | 9.36  |       | 7.33 |       | 10.29 | 11.20 | 9.26  | 5.18 | 3.91 | 4.54  |
| MAX  | 4.81 | 6.42 | 19.86 |       | 9.89 |       | 19.61 | 27.59 | 24.63 | 6.99 | 5.80 | 13.45 |
| MIN  | 2.25 | 3.20 | 4.30  |       | 5.23 |       | 5.88  | 5.92  | 5.28  | 4.17 | 2.95 | 2.68  |

## MOBILE RIVER BASIN

02387500 OOSTANAULA RIVER AT RESACA, GA.--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974  
MEAN VALUES

| DAY  | OCT  | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL  | AUG  | SEP  |
|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| 1    | 8.56 | 3.57  | 17.12 | 20.58 | 10.08 | 8.05  | 8.24  | 5.53  | 6.12  | 3.45 | 2.87 | 3.05 |
| 2    | 8.06 | 3.63  | 14.84 | 22.83 | 11.48 | 7.82  | 9.10  | 5.47  | 8.51  | 3.36 | 2.79 | 2.93 |
| 3    | 6.55 | 3.29  | 7.22  | 23.90 | 17.30 | 7.58  | 11.44 | 6.04  | 10.69 | 3.26 | 2.93 | 2.88 |
| 4    | 5.28 | 3.12  | 5.69  | 23.45 | 18.94 | 7.33  | 15.17 | 5.18  | 8.25  | 3.39 | 3.36 | 3.06 |
| 5    | 4.53 | 3.04  | 7.51  | 22.84 | 17.88 | 7.11  | 20.60 | 5.83  | 6.49  | 3.65 | 3.43 | 3.08 |
| 6    | 4.09 | 2.96  | 10.19 | 21.67 | 14.15 | 6.94  | 22.45 | 5.66  | 5.78  | 4.09 | 3.23 | 2.82 |
| 7    | 3.81 | 2.87  | 8.12  | 20.08 | 13.51 | 6.77  | 22.16 | 5.47  | 5.66  | 4.59 | 3.03 | 2.86 |
| 8    | 3.63 | 2.87  | 6.38  | 17.95 | 17.30 | 6.58  | 16.34 | 5.23  | 5.86  | 4.48 | 3.20 | 2.93 |
| 9    | 3.55 | 3.06  | 5.73  | 14.16 | 17.70 | 6.41  | 12.53 | 5.09  | 5.48  | 4.61 | 3.91 | 2.88 |
| 10   | 3.46 | 3.23  | 5.37  | 15.01 | 15.38 | 6.27  | 10.42 | 5.09  | 5.16  | 4.31 | 3.83 | 2.81 |
| 11   | 3.37 | 3.06  | 5.07  | 16.46 | 11.34 | 6.16  | 8.69  | 5.46  | 5.08  | 3.80 | 3.40 | 2.67 |
| 12   | 3.28 | 2.97  | 4.80  | 18.12 | 9.74  | 6.06  | 8.02  | 6.03  | 4.81  | 3.72 | 3.34 | 2.54 |
| 13   | 3.19 | 2.92  | 4.65  | 18.29 | 9.02  | 6.06  | 12.36 | 6.71  | 4.66  | 3.57 | 3.45 | 2.67 |
| 14   | 3.11 | 2.91  | 4.58  | 17.16 | 8.85  | 5.87  | 17.00 | 5.96  | 4.53  | 3.43 | 3.38 | 2.72 |
| 15   | 3.15 | 2.87  | 4.68  | 16.83 | 13.20 | 5.71  | 16.01 | 5.34  | 4.38  | 3.27 | 3.29 | 2.48 |
| 16   | 3.15 | 3.04  | 4.58  | 16.41 | 15.91 | 5.66  | 11.05 | 5.86  | 4.30  | 3.15 | 3.12 | 2.42 |
| 17   | 3.06 | 3.33  | 4.39  | 14.84 | 17.70 | 5.90  | 9.02  | 5.51  | 4.21  | 3.06 | 3.23 | 2.38 |
| 18   | 2.96 | 3.13  | 4.20  | 11.76 | 17.42 | 5.80  | 8.21  | 5.15  | 4.09  | 3.01 | 4.21 | 2.32 |
| 19   | 2.89 | 3.01  | 4.06  | 9.87  | 16.19 | 5.62  | 7.71  | 4.84  | 4.04  | 2.93 | 3.67 | 2.31 |
| 20   | 2.85 | 2.95  | 4.34  | 9.03  | 11.84 | 5.91  | 7.32  | 4.97  | 3.95  | 2.87 | 3.32 | 2.25 |
| 21   | 2.82 | 3.82  | 6.67  | 9.73  | 10.18 | 6.99  | 6.98  | 4.83  | 3.86  | 2.92 | 3.05 | 2.19 |
| 22   | 2.82 | 8.70  | 7.31  | 9.39  | 12.87 | 8.64  | 6.75  | 4.72  | 3.81  | 2.94 | 3.01 | 2.21 |
| 23   | 2.85 | 7.09  | 5.91  | 8.45  | 16.61 | 8.50  | 7.32  | 6.02  | 3.79  | 2.81 | 3.25 | 2.27 |
| 24   | 2.79 | 5.23  | 5.24  | 8.83  | 16.00 | 6.89  | 7.11  | 9.47  | 3.81  | 2.93 | 3.15 | 2.20 |
| 25   | 2.76 | 4.44  | 4.91  | 9.70  | 12.24 | 6.10  | 6.54  | 7.69  | 3.84  | 3.18 | 2.86 | 2.17 |
| 26   | 2.89 | 4.71  | 7.14  | 10.20 | 9.60  | 5.95  | 6.25  | 5.89  | 3.70  | 3.47 | 2.74 | 2.14 |
| 27   | 2.72 | 5.85  | 15.36 | 12.97 | 8.79  | 5.81  | 6.07  | 11.17 | 3.57  | 5.13 | 2.65 | 2.16 |
| 28   | 2.71 | 13.05 | 15.86 | 14.64 | 8.35  | 5.87  | 5.92  | 11.54 | 3.66  | 5.38 | 2.79 | 2.23 |
| 29   | 3.21 | 18.06 | 14.53 | 15.50 | ---   | 8.38  | 5.76  | 8.98  | 3.76  | 3.85 | 2.85 | 2.34 |
| 30   | 4.04 | 17.80 | 14.95 | 15.14 | ---   | 14.35 | 5.65  | 6.43  | 3.58  | 3.33 | 3.16 | 2.25 |
| 31   | 3.86 | ---   | 15.75 | 13.25 | ---   | 12.10 | ---   | 5.77  | ---   | 3.06 | 3.12 | ---  |
| MEAN | 3.74 | 5.02  | 7.97  | 15.45 | 13.56 | 7.07  | 10.61 | 6.26  | 4.98  | 3.58 | 3.21 | 2.54 |
| MAX  | 8.56 | 18.06 | 17.12 | 23.90 | 18.94 | 14.35 | 22.45 | 11.54 | 10.69 | 5.38 | 4.21 | 3.08 |
| MTN  | 2.71 | 2.87  | 4.06  | 8.45  | 8.35  | 5.62  | 5.65  | 4.72  | 3.57  | 2.81 | 2.65 | 2.14 |

WTR YR 1974 MEAN 6.96 MAX 23.90 MIN 2.14

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

| DAY                                               | OCT  | NOV  | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN  | JUL  | AUG  | SEP   |
|---------------------------------------------------|------|------|-------|-------|-------|-------|-------|-------|------|------|------|-------|
| 1                                                 | 2.16 | 1.98 | 4.88  | 8.10  | 4.85  | 6.64  | 22.01 | 4.69  | 6.43 | 3.82 | 3.52 | 2.72  |
| 2                                                 | 2.03 | 1.96 | 5.99  | 6.60  | 4.75  | 6.18  | 22.86 | 4.68  | 6.07 | 3.70 | 4.17 | 2.88  |
| 3                                                 | 1.98 | 1.97 | 4.73  | 5.37  | 7.56  | 5.87  | 21.13 | 4.35  | 5.46 | 4.83 | 3.88 | 3.09  |
| 4                                                 | 1.93 | 1.99 | 3.55  | 6.85  | 11.74 | 5.35  | 14.82 | 4.67  | 4.94 | 4.32 | 3.67 | 3.19  |
| 5                                                 | 1.92 | 2.05 | 3.06  | 7.80  | 18.15 | 4.94  | 8.01  | 4.49  | 3.90 | 3.76 | 3.65 | 3.37  |
| 6                                                 | 1.91 | 2.64 | 2.92  | 6.93  | 20.01 | 4.71  | 7.12  | 4.25  | 3.79 | 3.54 | 3.77 | 3.15  |
| 7                                                 | 1.93 | 2.09 | 2.90  | 5.57  | 17.82 | 4.52  | 6.72  | 4.15  | 3.96 | 3.51 | 5.35 | 3.18  |
| 8                                                 | 1.94 | 2.01 | 3.73  | 5.02  | 14.73 | 4.60  | 6.76  | 4.49  | 3.97 | 3.16 | 5.45 | 5.48  |
| 9                                                 | 1.93 | 1.98 | 4.45  | 4.82  | 8.86  | 4.56  | 6.58  | 4.22  | 3.82 | 3.62 | 5.07 | 7.47  |
| 10                                                | 1.91 | 1.90 | 4.16  | 4.46  | 6.54  | 4.27  | 6.69  | 5.45  | 4.18 | 3.45 | 3.15 | 4.70  |
| 11                                                | 1.90 | 1.94 | 3.37  | 9.02  | 5.88  | 4.70  | 6.54  | 5.49  | 4.52 | 4.66 | 4.11 | 4.24  |
| 12                                                | 1.87 | 2.45 | 3.00  | 10.51 | 6.13  | 7.76  | 6.08  | 5.20  | 5.75 | 4.11 | 4.97 | 4.54  |
| 13                                                | 1.85 | 2.09 | 2.75  | 11.84 | 7.97  | 9.70  | 5.94  | 5.06  | 6.14 | 3.51 | 4.26 | 4.23  |
| 14                                                | 1.86 | 1.81 | 2.52  | 10.80 | 6.54  | 17.42 | 5.73  | 4.22  | 5.09 | 3.26 | 3.88 | 4.01  |
| 15                                                | 1.87 | 1.73 | 2.56  | 7.40  | 5.50  | 19.51 | 5.62  | 4.08  | 4.61 | 2.21 | 3.70 | 3.43  |
| 16                                                | 2.03 | 1.59 | 2.68  | 5.57  | 6.60  | 18.29 | 5.83  | 6.31  | 4.42 | 1.99 | 3.67 | 3.05  |
| 17                                                | 2.88 | 1.69 | 3.23  | 5.19  | 12.23 | 17.50 | 5.65  | 8.15  | 4.19 | 2.21 | 4.00 | 3.18  |
| 18                                                | 2.77 | 1.74 | 3.20  | 4.59  | 14.75 | 13.84 | 5.47  | 10.17 | 3.95 | 2.39 | 3.51 | 6.06  |
| 19                                                | 2.55 | 1.90 | 3.00  | 4.31  | 17.15 | 9.38  | 5.37  | 8.05  | 3.48 | 2.27 | 3.39 | 7.50  |
| 20                                                | 2.28 | 2.99 | 3.02  | 4.32  | 17.09 | 9.68  | 5.47  | 6.43  | 3.50 | 1.93 | 3.41 | 5.79  |
| 21                                                | 2.13 | 4.90 | 2.89  | 5.63  | 15.76 | 8.79  | 5.62  | 5.83  | 4.26 | 2.05 | 3.36 | 4.88  |
| 22                                                | 2.08 | 3.93 | 2.85  | 5.62  | 12.33 | 7.37  | 5.24  | 4.34  | 4.18 | 2.80 | 2.54 | 4.97  |
| 23                                                | 2.06 | 3.06 | 2.80  | 4.61  | 7.50  | 7.66  | 4.95  | 3.91  | 3.85 | 3.12 | 2.35 | 7.83  |
| 24                                                | 2.04 | 2.68 | 3.00  | 4.21  | 14.44 | 9.88  | 5.03  | 3.16  | 3.81 | 2.70 | 2.29 | 13.40 |
| 25                                                | 2.04 | 2.48 | 5.81  | 12.41 | 16.78 | 14.04 | 5.02  | 3.03  | 3.52 | 3.54 | 2.21 | 13.25 |
| 26                                                | 2.03 | 2.42 | 8.76  | 18.59 | 15.07 | 13.30 | 5.15  | 3.10  | 3.56 | 3.59 | 2.17 | 13.51 |
| 27                                                | 2.02 | 2.28 | 7.76  | 17.56 | 12.92 | 11.86 | 5.10  | 3.62  | 3.27 | 3.05 | 2.26 | 13.74 |
| 28                                                | 2.03 | 2.14 | 6.06  | 16.39 | 7.97  | 7.47  | 4.89  | 3.93  | 3.85 | 3.02 | 2.82 | 8.29  |
| 29                                                | 2.03 | 2.29 | 7.07  | 14.73 | ---   | 7.69  | 4.78  | 3.55  | 4.01 | 2.92 | 2.88 | 4.97  |
| 30                                                | 2.02 | 2.28 | 10.45 | 7.42  | ---   | 17.24 | 4.72  | 4.90  | 4.06 | 2.86 | 2.79 | 4.58  |
| 31                                                | 2.00 | ---  | 10.43 | 5.33  | ---   | 20.58 | ---   | 5.81  | ---  | 3.04 | 2.69 | ---   |
| MEAN                                              | 2.06 | 2.30 | 4.44  | 7.99  | 11.34 | 9.85  | 7.70  | 4.96  | 4.35 | 3.19 | 3.51 | 5.82  |
| MAX                                               | 2.88 | 4.90 | 10.45 | 18.59 | 20.01 | 20.58 | 22.86 | 10.17 | 6.43 | 4.83 | 5.45 | 13.74 |
| MIN                                               | 1.85 | 1.59 | 2.52  | 4.21  | 4.75  | 4.27  | 4.72  | 3.03  | 3.27 | 1.93 | 2.17 | 2.72  |
| WTR YR 1975    MEAN 5.59    MAX 22.86    MIN 1.59 |      |      |       |       |       |       |       |       |      |      |      |       |



02387500 OOSTANAULA RIVER AT RESACA, GA.--Continued

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

| DAY                                               | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN  | JUL   | AUG  | SEP  |
|---------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|------|------|
| 1                                                 | 6.64  | 3.78  | 8.91  | 15.25 | 10.34 | 4.63  | 22.57 | 3.84  | 6.47 | 11.23 | 3.21 | 2.44 |
| 2                                                 | 13.25 | 3.29  | 10.92 | 15.02 | 7.81  | 6.32  | 23.43 | 4.33  | 6.50 | 9.53  | 3.46 | 2.34 |
| 3                                                 | 14.75 | 2.97  | 8.25  | 14.96 | 7.81  | 6.21  | 21.75 | 4.65  | 7.06 | 8.79  | 3.09 | 2.41 |
| 4                                                 | 11.64 | 2.94  | 6.54  | 14.47 | 7.14  | 4.52  | 17.43 | 4.66  | 7.16 | 13.16 | 2.62 | 2.38 |
| 5                                                 | 6.51  | 3.31  | 5.54  | 12.16 | 7.84  | 5.41  | 10.31 | 5.03  | 6.84 | 19.13 | 2.52 | 2.47 |
| 6                                                 | 5.32  | 5.03  | 6.00  | 9.58  | 7.26  | 9.10  | 8.82  | 5.18  | 6.78 | 19.79 | 2.40 | 2.49 |
| 7                                                 | 5.51  | 7.93  | 6.03  | 8.69  | 7.30  | 8.33  | 10.58 | 6.52  | 4.69 | 20.03 | 2.44 | 2.35 |
| 8                                                 | 7.05  | 9.09  | 6.01  | 10.57 | 7.16  | 6.12  | 10.69 | 6.93  | 6.15 | 20.87 | 3.38 | 2.05 |
| 9                                                 | 9.84  | 6.67  | 5.96  | 10.86 | 7.00  | 8.08  | 10.31 | 5.30  | 6.52 | 19.45 | 3.28 | 2.00 |
| 10                                                | 8.97  | 4.55  | 9.88  | 10.46 | 8.09  | 12.04 | 8.68  | 4.52  | 4.87 | 13.37 | 2.77 | 1.83 |
| 11                                                | 7.41  | 4.15  | 9.10  | 8.81  | 5.42  | 12.88 | 6.32  | 4.55  | 6.12 | 10.07 | 3.14 | 1.72 |
| 12                                                | 5.59  | 5.04  | 7.00  | 7.13  | 4.53  | 11.61 | 5.48  | 5.85  | 7.26 | 9.07  | 4.36 | 1.75 |
| 13                                                | 4.87  | 9.71  | 5.18  | 6.49  | 4.46  | 15.74 | 8.02  | 6.28  | 4.11 | 8.51  | 4.34 | 2.07 |
| 14                                                | 4.60  | 10.85 | 4.51  | 7.78  | 6.25  | 16.66 | 8.24  | 6.26  | 3.72 | 6.84  | 4.35 | 2.07 |
| 15                                                | 5.50  | 10.74 | 4.34  | 9.07  | 7.02  | 12.20 | 8.06  | 11.37 | 3.37 | 5.07  | 4.30 | 3.33 |
| 16                                                | 5.61  | 6.76  | 4.83  | 9.34  | 4.87  | 12.10 | 7.64  | 15.50 | 3.35 | 6.24  | 2.96 | 2.25 |
| 17                                                | 7.34  | 4.79  | 6.56  | 8.65  | 5.67  | 16.55 | 6.21  | 15.42 | 3.38 | 6.31  | 2.80 | 2.21 |
| 18                                                | 11.09 | 4.96  | 6.17  | 8.43  | 5.53  | 16.57 | 4.41  | 14.00 | 3.44 | 5.88  | 3.24 | 2.05 |
| 19                                                | 10.65 | 5.02  | 5.30  | 8.87  | 10.10 | 13.71 | 4.16  | 9.99  | 3.62 | 4.15  | 2.52 | 1.95 |
| 20                                                | 8.16  | 4.27  | 5.02  | 8.67  | 10.17 | 10.90 | 4.11  | 9.18  | 7.63 | 3.95  | 2.13 | 2.03 |
| 21                                                | 6.01  | 5.65  | 5.17  | 8.52  | 8.50  | 12.02 | 7.27  | 8.95  | 9.59 | 4.61  | 2.05 | 2.73 |
| 22                                                | 6.02  | 6.38  | 4.73  | 7.80  | 8.39  | 13.37 | 7.75  | 8.96  | 7.15 | 5.57  | 2.17 | 3.20 |
| 23                                                | 5.82  | 5.81  | 4.55  | 5.21  | 8.20  | 12.01 | 6.11  | 7.29  | 6.29 | 5.93  | 2.17 | 2.18 |
| 24                                                | 5.93  | 5.72  | 4.26  | 4.95  | 7.90  | 10.22 | 6.19  | 5.98  | 6.40 | 5.85  | 4.59 | 3.05 |
| 25                                                | 5.77  | 7.43  | 4.42  | 4.98  | 6.21  | 9.45  | 4.79  | 5.85  | 6.47 | 5.81  | 6.32 | 3.50 |
| 26                                                | 5.54  | 4.99  | 9.73  | 11.00 | 5.27  | 9.18  | 4.22  | 5.49  | 6.58 | 4.77  | 6.75 | 2.05 |
| 27                                                | 5.27  | 4.69  | 11.55 | 17.29 | 4.97  | 9.32  | 4.18  | 5.09  | 6.93 | 6.17  | 6.57 | 2.20 |
| 28                                                | 5.17  | 4.84  | 11.79 | 18.29 | 4.85  | 9.73  | 3.98  | 4.52  | 5.43 | 5.29  | 6.71 | 3.29 |
| 29                                                | 4.49  | 5.69  | 9.78  | 18.44 | 4.67  | 7.52  | 3.58  | 9.94  | 4.87 | 5.28  | 4.56 | 3.63 |
| 30                                                | 4.70  | 5.82  | 7.45  | 17.39 | ---   | 14.38 | 3.52  | 10.32 | 7.61 | 4.50  | 3.33 | 2.93 |
| 31                                                | 4.59  | ---   | 10.98 | 11.90 | ---   | 19.94 | ---   | 8.19  | ---  | 3.41  | 4.12 | ---  |
| MEAN                                              | 7.08  | 5.76  | 6.98  | 10.68 | 6.92  | 10.87 | 8.63  | 7.42  | 5.88 | 8.99  | 3.63 | 2.43 |
| MAX                                               | 14.75 | 10.85 | 11.79 | 18.44 | 10.34 | 19.94 | 23.43 | 15.50 | 9.59 | 20.87 | 6.75 | 3.63 |
| MIN                                               | 4.49  | 2.94  | 4.26  | 4.95  | 4.46  | 4.52  | 3.52  | 3.84  | 3.35 | 3.41  | 2.05 | 1.72 |
| WTR YR 1976    MEAN 7.12    MAX 23.43    MIN 1.72 |       |       |       |       |       |       |       |       |      |       |      |      |

02387500 OOSTANAUULA RIVER AT RESACA, GA.--Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1969 to June 1974.

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, 1.0°C Jan. 9-14, 1970.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 25.0°C Aug. 8, 9, 17, 18; minimum, 3.5°C Dec. 24, 25.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

## MOBILE RIVER BASIN

02387500 OOSTANAU LA RIVER AT RESACA, GA.--Continued

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

02387502 OOSTANAULA RIVER BELOW RESACA, GA.

LOCATION.--Lat 34°34'17", long 84°56'49", Gordon County, 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 mi<sup>2</sup> (4,170 km<sup>2</sup>), approximately.

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

REMARKS.--Flow regulated by Carters Lake and re-regulation dam (see stations 02381400, 02382400). 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 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.<br>14... | 1310 | 1580                                          | 7.0           | 20.0                        | 8.3                                |
| NOV.<br>24... | 1620 | 2240                                          | 7.0           | 8.5                         | 6.3                                |
| JAN.<br>05... | 1445 | 7020                                          | 7.2           | 6.5                         | 11.7                               |
| FEB.<br>17... | 1520 | 2580                                          | 7.4           | 13.0                        | 9.8                                |
| MAR.<br>15... | 1215 | 7060                                          | 7.3           | 9.0                         | 9.9                                |
| MAY<br>11...  | 1115 | 1660                                          | 7.4           | 17.5                        | 8.0                                |
| JUNE<br>14... | 1110 | 1250                                          | 7.4           | 20.0                        | 7.6                                |
| JULY<br>19... | 1345 | 1520                                          | 7.3           | 23.0                        | 6.4                                |
| AUG.<br>23... | 1320 | 650                                           | 7.2           | 23.5                        | 6.7                                |
| SEP.<br>27... | 1300 | 578                                           | 7.2           | 20.0                        | 6.9                                |

| DATE          | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) |
|---------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| OCT.<br>14... | 46                                       | .22                                                  | .06                                                | .14                                       | 48                                 |
| NOV.<br>24... | 39                                       | .14                                                  | <.02                                               | .08                                       | 41                                 |
| JAN.<br>05... | 27                                       | .22                                                  | <.02                                               | .09                                       | 33                                 |
| FEB.<br>17... | 30                                       | .16                                                  | .05                                                | .06                                       | 34                                 |
| MAR.<br>15... | 29                                       | .21                                                  | .04                                                | .09                                       | 32                                 |
| MAY<br>11...  | 35                                       | .25                                                  | .04                                                | .09                                       | 41                                 |
| JUNE<br>14... | 36                                       | .23                                                  | .04                                                | .11                                       | 40                                 |
| JULY<br>19... | 42                                       | .28                                                  | <.02                                               | .10                                       | 43                                 |
| AUG.<br>23... | 41                                       | .35                                                  | .03                                                | .34                                       | 48                                 |
| SEP.<br>27... | 39                                       | .22                                                  | .04                                                | .37                                       | 41                                 |

## MOBILE RIVER BASIN

02387502 OOSTANAULA RIVER BELOW RESACA, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>14... | 106                                                        | 10                                           | 15                           | .6                                                           | 210                                              | 9.0                                         |
| NOV.<br>24... | 95                                                         | 10                                           | 15                           | .5                                                           | 430                                              | 3.0                                         |
| JAN.<br>05... | 78                                                         | 35                                           | 26                           | .7                                                           | 930                                              | 7.0                                         |
| FEB.<br>17... | 80                                                         | 5                                            | 11                           | .5                                                           | 150                                              | 3.0                                         |
| MAR.<br>15... | 76                                                         | 50                                           | 40                           | .9                                                           | 930                                              | 4.0                                         |
| MAY<br>11...  | 94                                                         | 10                                           | 24                           | 1.3                                                          | 4300                                             | 10                                          |
| JUNE<br>14... | 97                                                         | 10                                           | 8                            | .8                                                           | 430                                              | 2.0                                         |
| JULY<br>19... | 101                                                        | 8                                            | 22                           | .5                                                           | 110                                              | 3.0                                         |
| AUG.<br>23... | 125                                                        | 20                                           | 7                            | .5                                                           | 290                                              | 5.0                                         |
| SEP.<br>27... | 116                                                        | 25                                           | 7                            | .9                                                           | 36                                               | 3.0                                         |

## MOBILE RIVER BASIN

337

02387520 OOSTANAULA RIVER AT CALHOUN, GA.

LOCATION.--Lat 34°31'08", long 84°57'16", Gordon County, 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 mi<sup>2</sup> (4,200 km<sup>2</sup>), approximately.

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

REMARKS.--Flow regulated by Carters Lake and re-regulation dam (see stations 02381400, 02382400). 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 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                          |               |                             |                                    |
| 14... | 1215 | 1750                                     | 7.5           | 20.0                        | 7.9                                |
| NOV.  |      |                                          |               |                             |                                    |
| 24... | 1445 | 3360                                     | 7.4           | 9.0                         | 7.3                                |
| JAN.  |      |                                          |               |                             |                                    |
| 05... | 1250 | 7580                                     | 7.2           | 7.0                         | 11.7                               |
| FEB.  |      |                                          |               |                             |                                    |
| 17... | 1340 | 2520                                     | 7.3           | 12.5                        | 10.2                               |
| MAR.  |      |                                          |               |                             |                                    |
| 15... | 1100 | 8410                                     | 7.2           | 9.0                         | 9.4                                |
| APR.  |      |                                          |               |                             |                                    |
| 13... | 1250 | 4000                                     | 7.2           | 13.0                        | 9.4                                |
| MAY   |      |                                          |               |                             |                                    |
| 11... | 1015 | 1580                                     | 7.4           | 17.5                        | 8.0                                |
| JUNE  |      |                                          |               |                             |                                    |
| 14... | 1010 | 1280                                     | 7.3           | 19.0                        | 7.4                                |
| JULY  |      |                                          |               |                             |                                    |
| 19... | 1200 | 1460                                     | 7.2           | 22.5                        | 7.0                                |
| AUG.  |      |                                          |               |                             |                                    |
| 23... | 1200 | 660                                      | 7.3           | 24.5                        | 6.1                                |
| SEP.  |      |                                          |               |                             |                                    |
| 27... | 1130 | 642                                      | 7.2           | 20.0                        | 6.7                                |

| DATE  | TOTAL<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>MAN-<br>GANESF<br>(MN)<br>(UG/L) | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) |
|-------|---------------------------------|-------------------------------------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|
| OCT.  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                                      |
| 14... | 600                             | 50                                        | 46                                       | .17                                                  | .02                                                | .10                                       | 21                                                   |
| NOV.  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                                      |
| 24... | 610                             | 50                                        | 39                                       | .13                                                  | <.02                                               | .09                                       | 10                                                   |
| JAN.  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                                      |
| 05... | 800                             | <50                                       | 26                                       | .22                                                  | <.02                                               | .09                                       | 39                                                   |
| FEB.  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                                      |
| 17... | 700                             | 70                                        | 32                                       | .18                                                  | .02                                                | .08                                       | 14                                                   |
| MAR.  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                                      |
| 15... | 1380                            | 60                                        | 28                                       | .19                                                  | .04                                                | .10                                       | 36                                                   |
| APR.  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                                      |
| 13... | 520                             | 70                                        | 24                                       | .18                                                  | .02                                                | .05                                       | 25                                                   |
| MAY   |                                 |                                           |                                          |                                                      |                                                    |                                           |                                                      |
| 11... | 1300                            | 70                                        | 36                                       | .23                                                  | .04                                                | --                                        | 27                                                   |
| JUNE  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                                      |
| 14... | 600                             | 50                                        | 35                                       | .27                                                  | .02                                                | .13                                       | 30                                                   |
| JULY  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                                      |
| 19... | 675                             | 60                                        | 43                                       | .29                                                  | <.02                                               | .10                                       | 30                                                   |
| AUG.  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                                      |
| 23... | 380                             | <50                                       | 47                                       | .33                                                  | .03                                                | .33                                       | 7                                                    |
| SEP.  |                                 |                                           |                                          |                                                      |                                                    |                                           |                                                      |
| 27... | 410                             | 50                                        | 52                                       | .26                                                  | .04                                                | .38                                       | 13                                                   |

## MOBILE RIVER BASIN

02387520 OOSTANAULA RIVER AT CALHOUN, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | CON-<br>FIRMED<br>COLI-<br>FORM<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|-------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|------------------------------------------|---------------------------------------------|
| OCT.<br>14... | 46                                  | 106                                                        | 10                                           | 15                           | .9                                                           | 62                                               | 23000                                    | 13                                          |
| NOV.<br>24... | 42                                  | 95                                                         | 15                                           | 11                           | .5                                                           | 930                                              | 2300                                     | 3.0                                         |
| JAN.<br>05... | 32                                  | 77                                                         | 40                                           | 28                           | .7                                                           | 23000                                            | 23000                                    | 9.0                                         |
| FEB.<br>17... | 36                                  | 85                                                         | 5                                            | 12                           | .4                                                           | 91                                               | 4300                                     | 3.0                                         |
| MAR.<br>15... | 32                                  | 75                                                         | 50                                           | 46                           | 1.0                                                          | 750                                              | --                                       | 6.0                                         |
| APR.<br>13... | 24                                  | 62                                                         | 5                                            | 15                           | .9                                                           | 1500                                             | 4300                                     | 2.0                                         |
| MAY<br>11...  | 42                                  | 92                                                         | 20                                           | 28                           | .9                                                           | 430                                              | 3900                                     | 3.0                                         |
| JUNE<br>14... | 38                                  | 94                                                         | 5                                            | 17                           | .6                                                           | 91                                               | 930                                      | 3.0                                         |
| JULY<br>19... | 43                                  | 102                                                        | 8                                            | 19                           | 1.1                                                          | 2300                                             | 4300                                     | 2.0                                         |
| AUG.<br>23... | 52                                  | 134                                                        | 30                                           | 6                            | .6                                                           | 91                                               | 430                                      | 3.0                                         |
| SEP.<br>27... | 44                                  | 121                                                        | 20                                           | 6                            | .6                                                           | 230                                              | 2300                                     | 4.0                                         |



## 02338000 WEST ARMUCHEE CREEK NEAR SUBLIGNA, GA.

LOCATION.--Lat 34°34'04", long 85°09'16", Chattooga County, 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 mi<sup>2</sup> (89.4 km<sup>2</sup>).

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 except those for period of no gage-height record, which are poor.

AVERAGE DISCHARGE.--16 years, 65.9 ft<sup>3</sup>/s (1.87 m<sup>3</sup>/s), 25.94 in/yr (658.9 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,670 ft<sup>3</sup>/s (274 m<sup>3</sup>/s) Mar. 4, 1966, gage height, 11.33 ft (3.453 m), from rating curve extended above 3,000 ft<sup>3</sup>/s (85.0 m<sup>3</sup>/s) on basis of contracted-opening measurement of peak flow; minimum, 3.1 ft<sup>3</sup>/s (0.088 m<sup>3</sup>/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 ft<sup>3</sup>/s (351 m<sup>3</sup>/s), as explained above.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,100 ft<sup>3</sup>/s (31.2 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Jan. 26 | 1900 | 1370 38.8                                             | 6.61 2.015              | July 5 | 0015 | *1770 50.1                                            | 7.20 2.195              |

Minimum daily discharge, 7.0 ft<sup>3</sup>/s (0.198 m<sup>3</sup>/s) Sept. 25.

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

| DAY         | OCT   | NOV     | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN   | JUL  | AUG  | SEP   |
|-------------|-------|---------|------|------|------|------|------|------|-------|------|------|-------|
| 1           | 289   | 28      | 199  | 323  | 98   | 41   | 215  | 32   | 24    | 107  | 14   | 11    |
| 2           | 207   | 27      | 132  | 205  | 82   | 38   | 163  | 25   | 24    | 61   | 13   | 12    |
| 3           | 122   | 25      | 99   | 276  | 72   | 36   | 129  | 21   | 24    | 48   | 13   | 11    |
| 4           | 89    | 24      | 79   | 217  | 63   | 34   | 107  | 19   | 21    | 619  | 12   | 10    |
| 5           | 72    | 22      | 67   | 164  | 58   | 41   | 90   | 18   | 19    | 727  | 12   | 10    |
| 6           | 64    | 22      | 58   | 134  | 58   | 111  | 78   | 17   | 18    | 231  | 13   | 10    |
| 7           | 118   | 44      | 53   | 143  | 51   | 86   | 71   | 96   | 16    | 162  | 14   | 9.7   |
| 8           | 373   | 40      | 49   | 142  | 48   | 72   | 62   | 41   | 15    | 111  | 13   | 9.4   |
| 9           | 266   | 34      | 62   | 114  | 45   | 523  | 55   | 30   | 14    | 84   | 12   | 9.3   |
| 10          | 162   | 31      | 55   | 102  | 42   | 249  | 51   | 24   | 14    | 67   | 12   | 9.0   |
| 11          | 119   | 29      | 49   | 101  | 40   | 161  | 48   | 35   | 13    | 55   | 12   | 8.6   |
| 12          | 93    | 313     | 46   | 93   | 37   | 371  | 49   | 29   | 12    | 47   | 11   | 8.6   |
| 13          | 75    | 171     | 42   | 96   | 36   | 416  | 43   | 24   | 12    | 41   | 11   | 8.0   |
| 14          | 63    | 112     | 40   | 114  | 34   | 205  | 40   | 69   | 11    | 35   | 11   | 7.8   |
| 15          | 55    | 82      | 41   | 101  | 33   | 169  | 37   | 574  | 11    | 32   | 12   | 7.7   |
| 16          | 50    | 67      | 70   | 96   | 32   | 204  | 35   | 180  | 10    | 30   | 13   | 7.4   |
| 17          | 280   | 57      | 64   | 83   | 31   | 166  | 34   | 114  | 10    | 30   | 14   | 7.4   |
| 18          | 189   | 49      | 59   | 69   | 215  | 134  | 32   | 84   | 9.4   | 25   | 13   | 7.3   |
| 19          | 132   | 44      | 52   | 60   | 189  | 111  | 30   | 64   | 37    | 23   | 12   | 7.2   |
| 20          | 101   | 54      | 49   | 58   | 119  | 99   | 29   | 52   | 91    | 21   | 11   | 7.7   |
| 21          | 81    | 68      | 46   | 55   | 99   | 398  | 27   | 45   | 28    | 19   | 11   | 9.4   |
| 22          | 68    | 53      | 43   | 51   | 97   | 201  | 26   | 40   | 21    | 18   | 10   | 7.4   |
| 23          | 58    | 53      | 40   | 47   | 78   | 146  | 24   | 37   | 17    | 17   | 11   | 7.4   |
| 24          | 51    | 50      | 37   | 46   | 68   | 116  | 23   | 37   | 15    | 16   | 14   | 7.2   |
| 25          | 46    | 48      | 166  | 48   | 63   | 100  | 29   | 32   | 14    | 15   | 11   | 7.0   |
| 26          | 42    | 45      | 395  | 983  | 57   | 89   | 24   | 28   | 19    | 14   | 15   | 7.2   |
| 27          | 39    | 55      | 196  | 435  | 52   | 104  | 22   | 28   | 136   | 15   | 23   | 7.5   |
| 28          | 36    | 47      | 144  | 223  | 48   | 82   | 21   | 38   | 52    | 20   | 15   | 8.0   |
| 29          | 34    | 45      | 114  | 170  | 44   | 103  | 20   | 44   | 36    | 16   | 12   | 8.8   |
| 30          | 35    | 71      | 116  | 135  | ---  | 594  | 20   | 33   | 230   | 15   | 11   | 7.7   |
| 31          | 31    | ---     | 675  | 111  | ---  | 298  | ---  | 28   | ---   | 14   | 10   | ---   |
| TOTAL       | 3440  | 1810    | 3337 | 4995 | 1989 | 5498 | 1634 | 1938 | 973.4 | 2735 | 391  | 256.7 |
| MEAN        | 111   | 60.3    | 108  | 161  | 68.6 | 177  | 54.5 | 62.5 | 32.4  | 88.2 | 12.6 | 8.56  |
| MAX         | 373   | 313     | 675  | 983  | 215  | 594  | 215  | 574  | 230   | 727  | 23   | 12    |
| MIN         | 31    | 22      | 37   | 46   | 31   | 34   | 20   | 17   | 9.4   | 14   | 10   | 7.0   |
| CFSM        | 3.22  | 1.75    | 3.13 | 4.67 | 1.99 | 5.13 | 1.58 | 1.81 | .94   | 2.56 | .37  | .25   |
| IN.         | 3.71  | 1.95    | 3.60 | 5.39 | 2.14 | 5.93 | 1.76 | 2.09 | 1.05  | 2.95 | .42  | .28   |
| CAL YR 1975 | TOTAL | 33691.9 | MEAN | 92.3 | MAX  | 1640 | MIN  | 6.6  | CFSM  | 2.68 | IN   | 36.33 |
| WTR YR 1976 | TOTAL | 28997.1 | MEAN | 79.2 | MAX  | 983  | MIN  | 7.0  | CFSM  | 2.30 | IN   | 31.27 |

NOTE.--No gage-height record July 30 to Aug. 24.

02388300 HEATH CREEK NEAR ROME, GA.

LOCATION.--Lat 34°21'57", long 85°16'17", Floyd County, 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 mi<sup>2</sup> (37.0 km<sup>2</sup>).

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 except those for periods of no gage-height record, which are poor.

AVERAGE DISCHARGE.--8 years, 26.3 ft<sup>3</sup>/s (0.745 m<sup>3</sup>/s), 24.98 in/yr (634.5 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 9.05 ft (2.758 m) Sept. 23, 1975 (discharge not determined); minimum discharge, 1.2 ft<sup>3</sup>/s (0.034 m<sup>3</sup>/s) Sept. 12, 1972, gage height, 1.15 ft (0.351 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft<sup>3</sup>/s (11.3 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Oct. 1  | 1145 | 435 12.3                                              | 5.57 1.698              | Mar. 13 | 0345 | 466 13.2                                              | 5.71 1.740              |
| Dec. 31 | 1145 | 462 13.1                                              | 5.60 1.707              | Mar. 30 | 1100 | *616 17.4                                             | 6.53 1.990              |
| Jan. 26 | 1830 | 524 14.8                                              | 6.07 1.850              |         |      |                                                       |                         |

Minimum daily discharge, 1.8 ft<sup>3</sup>/s (0.051 m<sup>3</sup>/s) Sept. 23.

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

| DAY         | OCT    | NOV     | DEC  | JAN  | FEB  | MAR  | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|--------|---------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| 1           | 243    | 8.9     | 95   | 177  | 48   | 22   | 170   | 15    | 7.0   | 10    | 8.1   | 2.9   |
| 2           | 123    | 8.4     | 62   | 105  | 41   | 20   | 104   | 9.5   | 6.9   | 5.7   | 7.0   | 3.5   |
| 3           | 64     | 8.0     | 47   | 119  | 36   | 18   | 75    | 7.2   | 6.5   | 5.7   | 6.4   | 2.5   |
| 4           | 44     | 7.7     | 37   | 89   | 33   | 17   | 60    | 6.1   | 5.8   | 109   | 6.0   | 2.4   |
| 5           | 34     | 7.4     | 31   | 67   | 30   | 18   | 49    | 5.7   | 5.4   | 115   | 5.6   | 2.4   |
| 6           | 33     | 7.1     | 27   | 55   | 37   | 45   | 42    | 5.5   | 5.4   | 44    | 5.4   | 2.3   |
| 7           | 67     | 29      | 24   | 64   | 29   | 36   | 36    | 6.2   | 5.4   | 29    | 6.0   | 2.3   |
| 8           | 158    | 18      | 22   | 60   | 27   | 32   | 32    | 5.6   | 5.2   | 20    | 5.2   | 2.2   |
| 9           | 93     | 14      | 20   | 48   | 25   | 84   | 28    | 5.4   | 5.0   | 15    | 4.8   | 2.2   |
| 10          | 60     | 13      | 17   | 43   | 24   | 69   | 25    | 5.2   | 4.6   | 12    | 4.5   | 2.2   |
| 11          | 44     | 12      | 15   | 44   | 23   | 54   | 23    | 9.8   | 4.3   | 10    | 4.1   | 2.0   |
| 12          | 33     | 46      | 14   | 41   | 21   | 120  | 23    | 6.6   | 4.1   | 8.7   | 3.8   | 2.1   |
| 13          | 27     | 43      | 13   | 43   | 21   | 277  | 20    | 14    | 3.9   | 8.1   | 3.5   | 2.0   |
| 14          | 22     | 33      | 12   | 68   | 20   | 111  | 18    | 31    | 3.8   | 7.8   | 3.3   | 2.0   |
| 15          | 19     | 27      | 12   | 54   | 18   | 112  | 17    | 162   | 3.7   | 7.4   | 3.2   | 2.0   |
| 16          | 17     | 23      | 25   | 49   | 18   | 278  | 15    | 60    | 3.6   | 7.0   | 3.1   | 2.0   |
| 17          | 97     | 20      | 19   | 41   | 17   | 141  | 14    | 41    | 3.6   | 6.6   | 3.0   | 1.9   |
| 18          | 61     | 17      | 16   | 33   | 64   | 94   | 13    | 31    | 3.5   | 6.2   | 3.5   | 2.0   |
| 19          | 43     | 16      | 14   | 29   | 66   | 71   | 12    | 24    | 4.5   | 6.0   | 3.0   | 2.0   |
| 20          | 34     | 22      | 14   | 27   | 50   | 60   | 11    | 19    | 5.1   | 5.8   | 2.7   | 1.9   |
| 21          | 27     | 33      | 14   | 25   | 46   | 122  | 10    | 15    | 5.5   | 5.4   | 2.5   | 2.1   |
| 22          | 22     | 23      | 13   | 23   | 49   | 81   | 9.2   | 13    | 4.9   | 5.2   | 2.4   | 2.0   |
| 23          | 19     | 23      | 12   | 21   | 39   | 63   | 8.3   | 11    | 4.6   | 5.0   | 2.3   | 1.8   |
| 24          | 16     | 22      | 12   | 20   | 36   | 53   | 7.9   | 10    | 4.4   | 4.8   | 2.3   | 1.9   |
| 25          | 14     | 20      | 47   | 19   | 33   | 46   | 14    | 8.7   | 4.5   | 5.0   | 2.3   | 1.9   |
| 26          | 13     | 18      | 109  | 354  | 31   | 42   | 9.2   | 7.2   | 4.9   | 8.4   | 2.3   | 1.9   |
| 27          | 13     | 30      | 67   | 204  | 28   | 56   | 8.1   | 7.2   | 5.2   | 9.0   | 2.6   | 2.0   |
| 28          | 12     | 22      | 50   | 108  | 26   | 44   | 7.1   | 11    | 5.0   | 17    | 2.4   | 2.1   |
| 29          | 11     | 21      | 40   | 81   | 24   | 44   | 6.6   | 11    | 4.8   | 9.0   | 2.4   | 2.2   |
| 30          | 11     | 36      | 80   | 64   | ---  | 388  | 6.7   | 9.6   | 30    | 8.7   | 2.2   | 2.2   |
| 31          | 9.5    | ---     | 361  | 53   | ---  | 363  | ---   | 7.2   | ---   | 8.7   | 2.1   | ---   |
| TOTAL       | 1483.5 | 628.5   | 1341 | 2228 | 960  | 2981 | 874.1 | 580.7 | 171.1 | 525.2 | 118.0 | 64.9  |
| MEAN        | 47.9   | 21.0    | 43.3 | 71.9 | 33.1 | 96.2 | 29.1  | 18.7  | 5.70  | 16.9  | 3.81  | 2.16  |
| MAX         | 243    | 46      | 361  | 354  | 66   | 388  | 170   | 162   | 30    | 115   | 8.1   | 3.5   |
| MIN         | 9.5    | 7.1     | 12   | 19   | 17   | 17   | 6.6   | 5.2   | 3.5   | 4.8   | 2.1   | 1.8   |
| CFSM        | 3.35   | 1.47    | 3.03 | 5.03 | 2.31 | 6.73 | 2.03  | 1.31  | .40   | 1.18  | .27   | .15   |
| IN.         | 3.86   | 1.63    | 3.49 | 5.80 | 2.50 | 7.75 | 2.27  | 1.51  | .45   | 1.37  | .31   | .17   |
| CAL YR 1975 | TOTAL  | 13755.8 | MEAN | 37.7 | MAX  | 514  | MIN   | 3.5   | CFSM  | 2.64  | IN    | 35.78 |
| WTR YR 1976 | TOTAL  | 11956.0 | MEAN | 32.7 | MAX  | 388  | MIN   | 1.8   | CFSM  | 2.29  | IN    | 31.10 |

NOTE.--No gage-height record June 9-19, 23-27,  
July 15-25, Aug. 3-23.

## 02388500 OOSTANULA RIVER NEAR ROME, GA.

LOCATION.--Lat 34°18'02", long 85°08'30", Floyd County, 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 mi<sup>2</sup> (5,490 km<sup>2</sup>), 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. Flow regulated by Carters Lake and re-regulation dam (see stations 02381400, 02382400). Records of chemical analyses for the water years 1968-74, are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--37 years, 3,587 ft<sup>3</sup>/s (102 m<sup>3</sup>/s), 22.98 in/yr (583.7 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,000 ft<sup>3</sup>/s (1,330 m<sup>3</sup>/s) Jan. 23, 1947; maximum gage height, 35.13 ft (10.708 m) Jan. 22, 1947; minimum daily discharge, 408 ft<sup>3</sup>/s (11.6 m<sup>3</sup>/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, 23,100 ft<sup>3</sup>/s (654 m<sup>3</sup>/s) Apr. 2; maximum gage height, 29.53 ft (9.001 m) Apr. 1; minimum daily discharge, 595 ft<sup>3</sup>/s (16.8 m<sup>3</sup>/s) Sept. 12.

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

| DAY               | OCT     | NOV   | DEC    | JAN    | FEB       | MAR     | APR        | MAY        | JUN       | JUL    | AUG   | SEP   |
|-------------------|---------|-------|--------|--------|-----------|---------|------------|------------|-----------|--------|-------|-------|
| 1                 | 7020    | 2020  | 5680   | 14500  | 8420      | 2140    | 19400      | 1700       | 3760      | 7280   | 1230  | 1590  |
| 2                 | 10300   | 1500  | 7190   | 13600  | 6110      | 2410    | 22300      | 1870       | 3140      | 7110   | 1170  | 1020  |
| 3                 | 11600   | 1280  | 6950   | 11300  | 4500      | 3160    | 22100      | 1930       | 3260      | 5440   | 1480  | 958   |
| 4                 | 10600   | 1260  | 4470   | 13300  | 4190      | 2730    | 20000      | 1970       | 3320      | 9410   | 990   | 1120  |
| 5                 | 6370    | 1290  | 3540   | 10900  | 4000      | 2010    | 15300      | 2060       | 3510      | 19300  | 701   | 900   |
| 6                 | 3420    | 1480  | 3050   | 7850   | 4230      | 4310    | 7380       | 2160       | 3330      | 20600  | 1090  | 937   |
| 7                 | 3010    | 3210  | 3140   | 6360   | 4070      | 5890    | 6010       | 2600       | 2860      | 19500  | 1220  | 932   |
| 8                 | 4690    | 5120  | 2900   | 6830   | 3920      | 4710    | 6720       | 3660       | 2100      | 18100  | 1180  | 860   |
| 9                 | 6280    | 4630  | 2880   | 7590   | 3740      | 4480    | 6410       | 2950       | 2910      | 17200  | 1520  | 799   |
| 10                | 6680    | 2890  | 3790   | 7320   | 3830      | 8430    | 5870       | 2160       | 2590      | 15900  | 1420  | 760   |
| 11                | 5190    | 2020  | 5680   | 6690   | 3820      | 9450    | 4270       | 2020       | 2250      | 10200  | 1240  | 711   |
| 12                | 3850    | 2630  | 4560   | 5400   | 2400      | 10000   | 3070       | 2230       | 3070      | 6450   | 1540  | 595   |
| 13                | 2730    | 5340  | 3270   | 4150   | 2120      | 15500   | 3430       | 2970       | 2980      | 5430   | 1910  | 649   |
| 14                | 2370    | 6860  | 2210   | 4790   | 2270      | 16600   | 4310       | 3040       | 1540      | 5080   | 1940  | 797   |
| 15                | 2320    | 7290  | 1900   | 5440   | 3470      | 14400   | 4320       | 6760       | 1360      | 3340   | 1870  | 863   |
| 16                | 2640    | 5910  | 3130   | 5940   | 2960      | 10400   | 4170       | 11100      | 1230      | 2940   | 1830  | 1090  |
| 17                | 4050    | 3060  | 3200   | 5820   | 2320      | 13500   | 3600       | 11500      | 1230      | 3420   | 1260  | 758   |
| 18                | 7560    | 2360  | 3500   | 5220   | 3360      | 16400   | 2780       | 10200      | 1230      | 3390   | 1360  | 739   |
| 19                | 7780    | 2530  | 3120   | 5030   | 5750      | 14100   | 2130       | 8070       | 1340      | 2820   | 1330  | 678   |
| 20                | 6450    | 2350  | 2660   | 5360   | 6970      | 10000   | 2010       | 5870       | 2440      | 2030   | 1070  | 624   |
| 21                | 3850    | 2790  | 2400   | 5100   | 6040      | 9500    | 2440       | 5070       | 4820      | 2000   | 1060  | 914   |
| 22                | 3140    | 3400  | 2240   | 4880   | 5370      | 11300   | 3900       | 5130       | 4850      | 2290   | 914   | 970   |
| 23                | 3030    | 3240  | 2190   | 3790   | 4890      | 10300   | 3480       | 4740       | 3200      | 2900   | 1170  | 923   |
| 24                | 2910    | 2890  | 2090   | 2660   | 4780      | 8760    | 3020       | 3210       | 2970      | 2990   | 1260  | 700   |
| 25                | 3020    | 3180  | 2110   | 2370   | 4090      | 6790    | 3020       | 2860       | 2920      | 2900   | 2540  | 1010  |
| 26                | 2690    | 3470  | 5800   | 8040   | 3050      | 6130    | 2070       | 2710       | 3340      | 2760   | 2920  | 1120  |
| 27                | 2460    | 2790  | 8570   | 15600  | 2580      | 6190    | 1820       | 2530       | 4080      | 2360   | 3140  | 617   |
| 28                | 2380    | 2450  | 8050   | 17300  | 2400      | 6530    | 1880       | 2350       | 4300      | 3530   | 3250  | 996   |
| 29                | 2240    | 2510  | 7640   | 15800  | 2250      | 5760    | 1730       | 3840       | 2910      | 2710   | 2870  | 1100  |
| 30                | 2060    | 2990  | 5300   | 14700  | ---       | 12700   | 1620       | 6530       | 4050      | 2490   | 1690  | 1100  |
| 31                | 2090    | ---   | 9420   | 12900  | ---       | 16900   | ---        | 5530       | ---       | 2140   | 1430  | ---   |
| TOTAL             | 144780  | 94740 | 132630 | 256530 | 117900    | 271480  | 190560     | 131320     | 86890     | 214010 | 49595 | 26830 |
| MEAN              | 4670    | 3158  | 4278   | 8275   | 4066      | 8757    | 6352       | 4236       | 2896      | 6904   | 1600  | 894   |
| MAX               | 11600   | 7290  | 9420   | 17300  | 8420      | 16900   | 22300      | 11500      | 4850      | 20600  | 3250  | 1590  |
| MIN               | 2060    | 1260  | 1900   | 2370   | 2120      | 2010    | 1620       | 1700       | 1230      | 2000   | 701   | 595   |
| CAL YR 1975 TOTAL | 1574294 |       |        | 4313   | MAX 20400 | MIN 704 | MEAN† 4803 | CFSM† 2.27 | IN† 30.81 |        |       |       |
| WTR YR 1976 TOTAL | 1717265 |       |        | 4692   | MAX 22300 | MIN 595 | MEAN† 4672 | CFSM† 2.20 | IN† 29.95 |        |       |       |

† Adjusted for change in contents in Carters Lake and re-regulation pool.

## MOBILE RIVER BASIN

02388500 OOSTANAULA RIVER NEAR ROME, GA.--Continued

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

| DAY  | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG  | SEP  |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|
| 1    | 15.61 | 8.19  | 12.39 | 20.04 | 16.20 | 7.58  | 29.35 | 7.64  | 11.50 | 14.04 | 5.98 | 6.51 |
| 2    | 19.13 | 6.47  | 14.89 | 18.66 | 13.37 | 8.11  | 28.03 | 6.91  | 10.38 | 13.86 | 5.87 | 5.62 |
| 3    | 17.64 | 6.48  | 13.84 | 18.32 | 12.85 | 9.21  | 26.02 | 7.17  | 10.45 | 12.20 | 6.48 | 5.57 |
| 4    | 16.23 | 6.98  | 11.29 | 18.20 | 12.51 | 8.73  | 25.09 | 8.18  | 10.73 | 14.91 | 5.65 | 6.26 |
| 5    | 12.61 | 7.01  | 10.21 | 16.65 | 12.22 | 7.77  | 23.29 | 8.48  | 10.73 | 22.00 | 5.33 | 4.99 |
| 6    | 9.46  | 7.20  | 9.36  | 15.62 | 12.58 | 10.65 | 17.58 | 9.00  | 9.07  | 23.15 | 5.82 | 5.13 |
| 7    | 9.46  | 10.28 | 9.03  | 14.38 | 12.11 | 12.19 | 15.54 | 9.04  | 8.44  | 23.04 | 5.94 | 5.17 |
| 8    | 11.72 | 12.56 | 8.91  | 15.92 | 10.48 | 10.10 | 15.95 | 10.15 | 8.54  | 21.97 | 5.32 | 5.37 |
| 9    | 13.29 | 10.86 | 10.13 | 16.06 | 10.21 | 10.84 | 15.73 | 8.56  | 9.64  | 21.86 | 5.98 | 5.24 |
| 10   | 13.31 | 8.70  | 11.57 | 15.20 | 10.98 | 14.65 | 15.23 | 7.48  | 9.30  | 21.00 | 6.14 | 5.18 |
| 11   | 12.03 | 8.17  | 13.60 | 12.99 | 10.93 | 15.26 | 13.69 | 8.12  | 8.84  | 16.47 | 5.87 | 5.05 |
| 12   | 10.29 | 8.77  | 12.50 | 11.70 | 9.20  | 15.77 | 12.34 | 8.53  | 9.83  | 12.50 | 6.33 | 4.31 |
| 13   | 8.70  | 13.28 | 10.65 | 11.83 | 8.63  | 21.35 | 12.50 | 9.36  | 8.74  | 12.82 | 7.09 | 4.55 |
| 14   | 9.19  | 14.77 | 7.67  | 12.52 | 8.73  | 21.46 | 13.59 | 9.06  | 6.46  | 12.04 | 7.00 | 5.48 |
| 15   | 9.17  | 14.70 | 7.34  | 13.25 | 9.44  | 19.69 | 13.57 | 13.16 | 6.59  | 9.83  | 6.61 | 5.29 |
| 16   | 9.64  | 12.24 | 9.00  | 13.65 | 8.86  | 23.39 | 13.43 | 16.66 | 6.39  | 9.11  | 6.55 | 5.96 |
| 17   | 11.42 | 8.99  | 10.30 | 13.28 | 8.13  | 25.46 | 12.86 | 17.06 | 6.40  | 9.60  | 6.11 | 5.28 |
| 18   | 14.83 | 9.55  | 11.30 | 12.30 | 9.48  | 23.28 | 11.27 | 18.34 | 6.38  | 8.68  | 6.16 | 5.23 |
| 19   | 13.97 | 9.69  | 10.85 | 11.95 | 12.25 | 20.90 | 10.17 | 16.97 | 6.56  | 7.91  | 5.67 | 4.73 |
| 20   | 12.74 | 9.55  | 8.63  | 12.25 | 13.46 | 18.94 | 9.53  | 13.89 | 7.84  | 7.06  | 5.21 | 4.61 |
| 21   | 11.49 | 10.26 | 7.98  | 11.67 | 12.57 | 19.04 | 10.12 | 13.03 | 10.97 | 7.00  | 5.56 | 6.35 |
| 22   | 10.85 | 10.72 | 7.72  | 11.60 | 11.67 | 20.56 | 12.39 | 12.68 | 11.63 | 8.46  | 4.76 | 5.78 |
| 23   | 10.73 | 9.17  | 7.78  | 10.32 | 11.50 | 19.45 | 11.46 | 10.81 | 9.41  | 8.70  | 5.62 | 5.70 |
| 24   | 10.63 | 8.95  | 7.50  | 8.40  | 11.49 | 17.98 | 10.52 | 8.98  | 9.42  | 8.74  | 6.85 | 5.18 |
| 25   | 10.38 | 10.65 | 7.50  | 7.94  | 10.42 | 16.18 | 8.67  | 9.84  | 9.16  | 8.79  | 8.37 | 5.91 |
| 26   | 8.40  | 11.09 | 12.10 | 14.20 | 9.08  | 15.44 | 7.24  | 9.73  | 9.67  | 7.97  | 9.25 | 6.68 |
| 27   | 8.24  | 10.00 | 14.64 | 21.35 | 8.47  | 15.64 | 7.33  | 9.50  | 9.99  | 8.55  | 9.23 | 5.02 |
| 28   | 8.90  | 8.11  | 14.21 | 22.80 | 8.09  | 16.07 | 7.12  | 9.50  | 10.26 | 9.36  | 9.30 | 6.36 |
| 29   | 8.78  | 8.40  | 13.85 | 21.41 | 7.73  | 15.15 | 8.26  | 11.19 | 9.10  | 8.22  | 8.73 | 6.09 |
| 30   | 8.49  | 8.80  | 11.60 | 21.06 | ---   | 22.94 | 7.52  | 12.63 | 10.53 | 7.89  | 6.48 | 6.24 |
| 31   | 8.51  | ---   | 15.32 | 20.16 | ---   | 27.34 | ---   | 11.76 | ---   | 7.30  | 6.66 | ---  |
| MEAN | 11.48 | 9.69  | 10.76 | 15.02 | 10.82 | 16.49 | 14.18 | 10.76 | 9.10  | 12.42 | 6.51 | 5.49 |
| MAX  | 19.13 | 14.77 | 15.32 | 22.80 | 16.20 | 27.34 | 29.35 | 18.34 | 11.63 | 23.15 | 9.30 | 6.68 |
| MIN  | 8.24  | 6.47  | 7.34  | 7.94  | 7.73  | 7.58  | 7.12  | 6.91  | 6.38  | 7.00  | 4.76 | 4.31 |

WTR YR 1976 MEAN 11.08 MAX 29.35 MIN 4.31

## MOBILE RIVER BASIN

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02388520 OOSTANAULA RIVER AT ROME, GA.

LOCATION.--Lat 34°16'13", long 85°10'24", Floyd County, 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 mi<sup>2</sup> (5,570 km<sup>2</sup>), approximately.

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

REMARKS.--Flow regulated by Carters Lake and re-regulation dam (see stations 02381400, 02382400). 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 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                               |               |                             |                                    |
| 16... | 0825 | 2800                                          | 7.0           | 19.0                        | 7.7                                |
| DEC.  |      |                                               |               |                             |                                    |
| 01... | 1115 | 6040                                          | 7.3           | 11.0                        | 10.4                               |
| JAN.  |      |                                               |               |                             |                                    |
| 06... | 1610 | 8990                                          | 7.3           | 7.5                         | 11.6                               |
| FEB.  |      |                                               |               |                             |                                    |
| 19... | 1245 | 5900                                          | 7.1           | 14.0                        | 9.4                                |
| MAR.  |      |                                               |               |                             |                                    |
| 17... | 1145 | 13400                                         | 7.2           | 8.0                         | 9.7                                |
| APR.  |      |                                               |               |                             |                                    |
| 12... | 1230 | 4200                                          | 7.3           | 13.0                        | 9.3                                |
| MAY   |      |                                               |               |                             |                                    |
| 10... | 1130 | 2180                                          | 7.5           | 17.0                        | 7.5                                |
| JUNE  |      |                                               |               |                             |                                    |
| 16... | 0945 | 1400                                          | 7.5           | 22.5                        | 6.5                                |
| JULY  |      |                                               |               |                             |                                    |
| 21... | 0815 | 1800                                          | 7.4           | 23.5                        | 6.4                                |
| AUG.  |      |                                               |               |                             |                                    |
| 25... | 0815 | 3250                                          | 7.4           | 24.5                        | 5.7                                |
| SEP.  |      |                                               |               |                             |                                    |
| 28... | 1415 | 1190                                          | 7.3           | 21.5                        | 6.6                                |

| DATE  | TOTAL<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>MANGANESE<br>(MN)<br>(UG/L) | ALKA-<br>LINITY<br>AS<br>CaCO <sub>3</sub><br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) |
|-------|---------------------------------|--------------------------------------|------------------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|
| OCT.  |                                 |                                      |                                                      |                                                      |                                                    |                                           |                                                      |
| 16... | 600                             | 50                                   | 50                                                   | .48                                                  | .03                                                | .20                                       | 17                                                   |
| DEC.  |                                 |                                      |                                                      |                                                      |                                                    |                                           |                                                      |
| 01... | 2300                            | 100                                  | 32                                                   | .16                                                  | <.02                                               | .20                                       | 103                                                  |
| JAN.  |                                 |                                      |                                                      |                                                      |                                                    |                                           |                                                      |
| 06... | 900                             | 60                                   | 32                                                   | .31                                                  | <.02                                               | .08                                       | 16                                                   |
| FEB.  |                                 |                                      |                                                      |                                                      |                                                    |                                           |                                                      |
| 19... | 2100                            | 140                                  | 44                                                   | .29                                                  | .03                                                | .22                                       | 109                                                  |
| MAR.  |                                 |                                      |                                                      |                                                      |                                                    |                                           |                                                      |
| 17... | 1300                            | <50                                  | 28                                                   | .19                                                  | .03                                                | .11                                       | 17                                                   |
| APR.  |                                 |                                      |                                                      |                                                      |                                                    |                                           |                                                      |
| 12... | 430                             | 50                                   | 38                                                   | .27                                                  | .02                                                | .07                                       | 13                                                   |
| MAY   |                                 |                                      |                                                      |                                                      |                                                    |                                           |                                                      |
| 10... | 2200                            | 100                                  | 40                                                   | .30                                                  | .03                                                | .16                                       | 68                                                   |
| JUNE  |                                 |                                      |                                                      |                                                      |                                                    |                                           |                                                      |
| 16... | 340                             | <50                                  | 46                                                   | .35                                                  | .02                                                | .13                                       | <1                                                   |
| JULY  |                                 |                                      |                                                      |                                                      |                                                    |                                           |                                                      |
| 21... | 580                             | 50                                   | 51                                                   | .41                                                  | <.02                                               | --                                        | 11                                                   |
| AUG.  |                                 |                                      |                                                      |                                                      |                                                    |                                           |                                                      |
| 25... | 640                             | 60                                   | 56                                                   | .50                                                  | .07                                                | .34                                       | 20                                                   |
| SEP.  |                                 |                                      |                                                      |                                                      |                                                    |                                           |                                                      |
| 28... | 360                             | <50                                  | 41                                                   | .25                                                  | .03                                                | .22                                       | 6                                                    |

## MOBILE RIVER BASIN

02388520 OOSTANAULA RIVER AT ROME, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | RIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | CON-<br>FIRMED<br>COLI-<br>FORM<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|------------------------------------------|---------------------------------------------|
| OCT.<br>16... | 54                                 | 123                                                        | 10                                           | 12                           | .6                                                           | 2300                                             | 2300                                     | 10                                          |
| DEC.<br>01... | 36                                 | 87                                                         | 50                                           | 62                           | 1.9                                                          | 12000                                            | 93000                                    | 8.0                                         |
| JAN.<br>06... | 36                                 | 86                                                         | 30                                           | 26                           | .8                                                           | 430                                              | 23000                                    | 6.0                                         |
| FEB.<br>19... | 49                                 | 119                                                        | 40                                           | 68                           | 1.7                                                          | 23000                                            | --                                       | 7.0                                         |
| MAR.<br>17... | 30                                 | 78                                                         | 50                                           | 38                           | 1.2                                                          | 2300                                             | 23000                                    | 6.0                                         |
| APR.<br>12... | 38                                 | 92                                                         | 20                                           | 10                           | .8                                                           | 73                                               | 2300                                     | 3.0                                         |
| MAY<br>10...  | 46                                 | 105                                                        | 120                                          | 60                           | .9                                                           | 1500                                             | 23000                                    | 13                                          |
| JUNE<br>16... | 51                                 | 122                                                        | 10                                           | 10                           | .6                                                           | 150                                              | 930                                      | 2.0                                         |
| JULY<br>21... | 53                                 | 129                                                        | 5                                            | 12                           | .5                                                           | 36                                               | 2300                                     | 5.0                                         |
| AUG.<br>25... | 61                                 | 160                                                        | 5                                            | 11                           | .7                                                           | 930                                              | 4300                                     | 5.0                                         |
| SEP.<br>28... | 45                                 | 117                                                        | 15                                           | 4                            | .3                                                           | 190                                              | 5800                                     | 3.0                                         |



02389000 ETOWAH RIVER NEAR DAWSONVILLE, GA.

LOCATION.--Lat 34°22'57", long 84°03'21", Dawson County, 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 mi<sup>2</sup> (267 km<sup>2</sup>).

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1940 to September 1976 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 1,050 ft (320 m), by barometer.

REMARKS.--Records good.

AVERAGE DISCHARGE.--36 years, 270 ft<sup>3</sup>/s (7.65 m<sup>3</sup>/s), 35.60 in/yr (904.2 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,140 ft<sup>3</sup>/s (174 m<sup>3</sup>/s) Mar. 4, 1966, Aug. 24, 1967; maximum gage height, 16.18 ft (4.932 m) in gage well, Dec. 12, 1961; minimum daily discharge, 50 ft<sup>3</sup>/s (1.42 m<sup>3</sup>/s) Oct. 22-28, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,800 ft<sup>3</sup>/s (51.0 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Jan. 26 | 1530 | 2290 64.9                                             | 6.98 2.128              | Mar. 31 | 1230 | *4130 117                                             | 11.27 3.435             |
| Mar. 13 | 0100 | 2500 70.8                                             | 7.61 2.320              | May 15  | 0930 | 2720 77.0                                             | 7.94 2.420              |
| Mar. 16 | 1015 | 3260 92.3                                             | 9.42 2.871              |         |      |                                                       |                         |

Minimum discharge, 108 ft<sup>3</sup>/s (3.06 m<sup>3</sup>/s) Sept. 25, gage height, 1.02 ft (0.311 m).

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

| DAY         | OCT   | NOV    | DEC      | JAN      | FEB     | MAR       | APR      | MAY   | JUN   | JUL  | AUG  | SEP  |
|-------------|-------|--------|----------|----------|---------|-----------|----------|-------|-------|------|------|------|
| 1           | 605   | 162    | 347      | 770      | 416     | 253       | 1490     | 460   | 463   | 373  | 197  | 149  |
| 2           | 657   | 161    | 270      | 462      | 412     | 248       | 906      | 358   | 419   | 304  | 189  | 151  |
| 3           | 325   | 159    | 240      | 518      | 363     | 244       | 721      | 303   | 389   | 293  | 184  | 150  |
| 4           | 259   | 158    | 222      | 500      | 339     | 242       | 647      | 285   | 375   | 266  | 180  | 151  |
| 5           | 236   | 155    | 210      | 392      | 325     | 240       | 590      | 276   | 354   | 871  | 178  | 154  |
| 6           | 210   | 153    | 203      | 344      | 318     | 297       | 540      | 271   | 335   | 546  | 183  | 149  |
| 7           | 185   | 267    | 197      | 385      | 302     | 267       | 507      | 382   | 326   | 503  | 213  | 143  |
| 8           | 220   | 251    | 193      | 612      | 294     | 253       | 480      | 315   | 320   | 404  | 184  | 140  |
| 9           | 250   | 201    | 190      | 420      | 287     | 322       | 463      | 291   | 315   | 358  | 171  | 138  |
| 10          | 220   | 212    | 186      | 357      | 279     | 314       | 435      | 276   | 315   | 331  | 175  | 132  |
| 11          | 210   | 200    | 180      | 335      | 276     | 278       | 423      | 306   | 307   | 312  | 166  | 130  |
| 12          | 200   | 395    | 177      | 330      | 270     | 613       | 412      | 284   | 294   | 300  | 162  | 126  |
| 13          | 190   | 550    | 175      | 325      | 266     | 1440      | 397      | 270   | 285   | 287  | 162  | 122  |
| 14          | 180   | 323    | 172      | 411      | 263     | 568       | 380      | 405   | 278   | 273  | 164  | 120  |
| 15          | 170   | 271    | 171      | 350      | 259     | 680       | 371      | 1960  | 275   | 265  | 175  | 126  |
| 16          | 300   | 244    | 205      | 326      | 258     | 1980      | 363      | 752   | 278   | 260  | 192  | 128  |
| 17          | 800   | 221    | 194      | 308      | 255     | 877       | 349      | 559   | 265   | 264  | 175  | 122  |
| 18          | 500   | 204    | 180      | 284      | 317     | 662       | 341      | 501   | 471   | 250  | 166  | 120  |
| 19          | 350   | 197    | 169      | 273      | 353     | 538       | 335      | 448   | 431   | 243  | 160  | 115  |
| 20          | 300   | 200    | 166      | 267      | 290     | 499       | 329      | 394   | 700   | 244  | 154  | 130  |
| 21          | 240   | 306    | 166      | 263      | 297     | 629       | 355      | 362   | 468   | 247  | 153  | 126  |
| 22          | 220   | 235    | 164      | 256      | 465     | 524       | 330      | 346   | 392   | 233  | 152  | 118  |
| 23          | 210   | 234    | 160      | 252      | 355     | 463       | 317      | 340   | 349   | 230  | 158  | 113  |
| 24          | 205   | 230    | 158      | 250      | 315     | 427       | 306      | 333   | 320   | 224  | 212  | 112  |
| 25          | 199   | 214    | 169      | 250      | 295     | 406       | 320      | 323   | 302   | 215  | 160  | 111  |
| 26          | 192   | 205    | 357      | 1310     | 282     | 388       | 304      | 311   | 335   | 209  | 167  | 116  |
| 27          | 186   | 231    | 284      | 960      | 273     | 421       | 292      | 313   | 317   | 223  | 220  | 147  |
| 28          | 179   | 215    | 237      | 570      | 264     | 391       | 284      | 612   | 298   | 228  | 180  | 143  |
| 29          | 174   | 205    | 211      | 466      | 258     | 372       | 281      | 1020  | 290   | 209  | 170  | 140  |
| 30          | 168   | 203    | 234      | 409      | ---     | 1290      | 284      | 698   | 489   | 207  | 161  | 158  |
| 31          | 165   | ---    | 1010     | 374      | ---     | 2820      | ---      | 530   | ---   | 206  | 154  | ---  |
| TOTAL       | 8505  | 6962   | 7197     | 13329    | 8946    | 18946     | 13552    | 14284 | 10755 | 9878 | 5417 | 3980 |
| MEAN        | 274   | 232    | 232      | 430      | 308     | 611       | 452      | 461   | 359   | 319  | 175  | 133  |
| MAX         | 800   | 550    | 1010     | 1310     | 465     | 2820      | 1490     | 1960  | 700   | 871  | 220  | 158  |
| MIN         | 165   | 153    | 158      | 250      | 255     | 240       | 281      | 270   | 265   | 206  | 152  | 111  |
| CFSM        | 2.66  | 2.25   | 2.25     | 4.17     | 2.99    | 5.93      | 4.39     | 4.48  | 3.49  | 3.10 | 1.70 | 1.29 |
| IN.         | 3.07  | 2.51   | 2.60     | 4.81     | 3.23    | 6.84      | 4.89     | 5.16  | 3.88  | 3.57 | 1.96 | 1.44 |
| CAL YR 1975 | TOTAL | 118808 | MEAN 326 | MAX 2160 | MIN 136 | CFSM 3.17 | IN 42.91 |       |       |      |      |      |
| WTR YR 1976 | TOTAL | 121751 | MEAN 333 | MAX 2820 | MIN 111 | CFSM 3.23 | IN 43.97 |       |       |      |      |      |



## MOBILE RIVER BASIN

02389000 ETOWAH RIVER NEAR DAWSONVILLE, GA.--Continued

## WATER-QUALITY RECORDS

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE       | TIME | INSTANTANEOUS DISCHARGE (CFS) | SPECIFIC CONDUCTANCE (MICROMHOS) | PH (UNITS) | TEMPERATURE (DEG C) | DIS-SOLVED OXYGEN (MG/L) |
|------------|------|-------------------------------|----------------------------------|------------|---------------------|--------------------------|
| MAR. 26... | 1125 | 385                           | 19                               | 6.5        | 13.0                | 9.9                      |
| MAY 05...  | 1130 | 279                           | 23                               | 6.2        | 16.0                | 7.5                      |

| DATE       | DIS-SOLVED SILICA (SIO2) (MG/L) | DIS-SOLVED ALUMINUM (AL) (UG/L) | DIS-SOLVED IRON (FE) (UG/L) | DIS-SOLVED MANGANESE (MN) (UG/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) |
|------------|---------------------------------|---------------------------------|-----------------------------|----------------------------------|--------------------------------|----------------------------------|-------------------------------|---------------------------------|---------------------------|------------------------|----------------------------|
| MAR. 26... | 8.7                             | 20                              | 0                           | 0                                | .0                             | .5                               | 1.2                           | .6                              | 5                         | 0                      | 4                          |
| MAY 05...  | 9.0                             | 10                              | 60                          | 0                                | 1.2                            | .1                               | 1.4                           | .6                              | 1                         | 0                      | 1                          |

| DATE       | DIS-SOLVED SULFATE (SO4) (MG/L) | DIS-SOLVED CHLORIDE (CL) (MG/L) | DIS-SOLVED FLUORIDE (F) (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 AMMONIA NITROGEN (N) (MG/L) | DIS-SOLVED AMMONIA NITROGEN (N) (MG/L) |
|------------|---------------------------------|---------------------------------|--------------------------------|-------------------------------|---------------------------------|-------------------------------|---------------------------------|---------------------------------------|--------------------------------------------|-----------------------------------|----------------------------------------|
| MAR. 26... | .8                              | 1.2                             | .1                             | .09                           | .40                             | .00                           | .00                             | .09                                   | .09                                        | .00                               | .01                                    |
| MAY 05...  | 2.1                             | 1.1                             | .1                             | .25                           | 1.1                             | .00                           | .00                             | .06                                   | .25                                        | .01                               | .02                                    |

| DATE       | DIS-SOLVED AMMONIA (NH4) (MG/L) | TOTAL ORGANIC NITROGEN (N) (MG/L) | TOTAL KJELDAHL 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 PHOSPHATE (PO4) (MG/L) | DIS-SOLVED ORTHO PHOSPHORUS (P) (MG/L) | DIS-SOLVED SOLIDS (RESIDUE AT 180 C) (MG/L) |
|------------|---------------------------------|-----------------------------------|------------------------------------|---------------------------|-----------------------------|-----------------------------|----------------------------------|-----------------------------------|-----------------------------------------|----------------------------------------|---------------------------------------------|
| MAR. 26... | .01                             | .09                               | .09                                | .18                       | .80                         | .01                         | .01                              | .00                               | .00                                     | .00                                    | 19                                          |
| MAY 05...  | .03                             | .09                               | .10                                | .16                       | .71                         | .01                         | .00                              | .00                               | .00                                     | .00                                    | 24                                          |

| DATE       | HARDNESS (CA,MG) (MG/L) | NON-CARBONATE HARDNESS (MG/L) | COLOR (PLATINUM-COBALT UNITS) | DIS-SOLVED ARSENIC (AS) (UG/L) | DIS-SOLVED CADMIUM (CD) (UG/L) | DIS-SOLVED CHROMIUM (CR) (UG/L) | DIS-SOLVED COPPER (CU) (UG/L) | DIS-SOLVED LEAD (PB) (UG/L) | DIS-SOLVED MERCURY (HG) (UG/L) | DIS-SOLVED SELENIUM (SE) (UG/L) | DIS-SOLVED ZINC (ZN) (UG/L) |
|------------|-------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|---------------------------------|-------------------------------|-----------------------------|--------------------------------|---------------------------------|-----------------------------|
| MAR. 26... | 2                       | 0                             | 5                             | 0                              | 1                              | 2                               | 0                             | 8                           | .1                             | 0                               | 0                           |
| MAY 05...  | 3                       | 3                             | 0                             | 0                              | 0                              | 0                               | 0                             | 2                           | .0                             | 0                               | 0                           |

## 02392000 ETOWAH RIVER AT CANTON, GA.

LOCATION.--Lat 34°14'23", long 84°29'47", Cherokee County, 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 mi<sup>2</sup> (1,570 km<sup>2</sup>).

## 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.--49 years (1896-1905, 1936-76), 1,240 ft<sup>3</sup>/s (35.1 m<sup>3</sup>/s), 27.83 in/yr (706.9 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,300 ft<sup>3</sup>/s (915 m<sup>3</sup>/s) Jan. 7, 1946, gage height, 26.7 ft (8.14 m); minimum, 178 ft<sup>3</sup>/s (5.04 m<sup>3</sup>/s) Sept. 29, 30, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, 36,700 ft<sup>3</sup>/s (1,040 m<sup>3</sup>/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 ft<sup>3</sup>/s (184 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Jan. 27 | 0500 | 10000 283                                             | 17.39 5.300             | Mar. 31 | 2300 | *19000 538                                            | 22.76 6.937             |
| Mar. 13 | 1500 | 9840 279                                              | 17.22 5.249             | May 15  | 1900 | 8590 243                                              | 15.66 4.773             |
| Mar. 17 | 0200 | 15200 430                                             | 20.57 6.270             |         |      |                                                       |                         |

Minimum discharge, 481 ft<sup>3</sup>/s (13.6 m<sup>3</sup>/s) Sept. 25, 26, gage height, 2.07 ft (0.631 m).

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

| DAY         | OCT   | NOV    | DEC   | JAN   | FEB   | MAR    | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|--------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 1           | 1470  | 692    | 1470  | 4000  | 1800  | 1180   | 17700 | 1690  | 1880  | 1780  | 997   | 654   |
| 2           | 3940  | 683    | 1460  | 2210  | 2160  | 1160   | 8000  | 1850  | 1730  | 1380  | 935   | 647   |
| 3           | 1860  | 678    | 1180  | 2000  | 1790  | 1140   | 4590  | 1540  | 1660  | 1230  | 882   | 651   |
| 4           | 1180  | 666    | 1070  | 2480  | 1630  | 1120   | 3850  | 1440  | 1730  | 1810  | 850   | 658   |
| 5           | 972   | 656    | 998   | 1790  | 1530  | 1110   | 3370  | 1400  | 1560  | 4210  | 834   | 694   |
| 6           | 898   | 646    | 951   | 1510  | 1490  | 1300   | 2980  | 1380  | 1450  | 2790  | 826   | 693   |
| 7           | 850   | 853    | 924   | 1580  | 1430  | 1410   | 2740  | 1400  | 1400  | 2770  | 965   | 665   |
| 8           | 978   | 1360   | 903   | 3250  | 1370  | 1210   | 2640  | 1630  | 1380  | 2140  | 935   | 639   |
| 9           | 1080  | 968    | 878   | 2140  | 1340  | 1290   | 2460  | 1480  | 1350  | 1740  | 849   | 607   |
| 10          | 909   | 880    | 873   | 1670  | 1290  | 1520   | 2330  | 1390  | 1350  | 1580  | 820   | 590   |
| 11          | 798   | 917    | 839   | 1500  | 1270  | 1340   | 2340  | 1380  | 1320  | 1450  | 799   | 563   |
| 12          | 755   | 1150   | 814   | 1520  | 1250  | 2030   | 2320  | 1450  | 1270  | 1370  | 765   | 546   |
| 13          | 703   | 2880   | 798   | 1420  | 1220  | 8890   | 2190  | 1350  | 1210  | 1310  | 753   | 535   |
| 14          | 675   | 1750   | 791   | 1620  | 1200  | 4400   | 2110  | 1510  | 1180  | 1250  | 761   | 524   |
| 15          | 647   | 1290   | 785   | 1570  | 1180  | 3260   | 1980  | 6520  | 1160  | 1200  | 739   | 534   |
| 16          | 636   | 1110   | 862   | 1420  | 1170  | 10300  | 1910  | 5510  | 1150  | 1150  | 891   | 543   |
| 17          | 1460  | 1020   | 1010  | 1340  | 1160  | 11800  | 1840  | 3070  | 1130  | 1180  | 856   | 527   |
| 18          | 3920  | 944    | 890   | 1260  | 1270  | 4270   | 1790  | 2380  | 1160  | 1140  | 771   | 514   |
| 19          | 1930  | 889    | 818   | 1190  | 1870  | 3260   | 1720  | 2020  | 1600  | 1090  | 722   | 501   |
| 20          | 1360  | 874    | 783   | 1160  | 1430  | 2810   | 1690  | 1800  | 2700  | 1120  | 688   | 496   |
| 21          | 1140  | 1320   | 779   | 1150  | 1300  | 3420   | 1740  | 1660  | 2110  | 1300  | 663   | 552   |
| 22          | 1040  | 1280   | 768   | 1130  | 2080  | 3190   | 1690  | 1580  | 1560  | 1100  | 654   | 553   |
| 23          | 952   | 1080   | 751   | 1100  | 1950  | 2570   | 1620  | 1540  | 1380  | 1080  | 692   | 512   |
| 24          | 905   | 1120   | 739   | 1090  | 1560  | 2340   | 1580  | 1510  | 1320  | 1070  | 744   | 498   |
| 25          | 844   | 1030   | 750   | 1100  | 1420  | 2200   | 1620  | 1440  | 1250  | 1020  | 768   | 487   |
| 26          | 828   | 972    | 1130  | 5050  | 1340  | 2090   | 1590  | 1390  | 1300  | 962   | 674   | 486   |
| 27          | 787   | 974    | 1270  | 8210  | 1290  | 2180   | 1520  | 1380  | 1750  | 1110  | 778   | 516   |
| 28          | 783   | 1010   | 1030  | 3440  | 1240  | 2200   | 1470  | 2030  | 1420  | 1680  | 868   | 555   |
| 29          | 762   | 924    | 935   | 2460  | 1210  | 2000   | 1430  | 4060  | 1260  | 1130  | 801   | 558   |
| 30          | 750   | 900    | 922   | 2060  | ---   | 8560   | 1430  | 3110  | 1510  | 1010  | 738   | 644   |
| 31          | 723   | ---    | 2870  | 1810  | ---   | 16000  | ---   | 2280  | ---   | 1030  | 695   | ---   |
| TOTAL       | 36535 | 31516  | 31041 | 65230 | 42240 | 111550 | 86240 | 64170 | 44230 | 46182 | 24713 | 17142 |
| MEAN        | 1179  | 1051   | 1001  | 2104  | 1457  | 3598   | 2875  | 2070  | 1474  | 1490  | 797   | 571   |
| MAX         | 3940  | 2880   | 2870  | 8210  | 2160  | 16000  | 17700 | 6520  | 2700  | 4210  | 997   | 694   |
| MIN         | 636   | 646    | 739   | 1090  | 1160  | 1110   | 1430  | 1350  | 1130  | 962   | 654   | 486   |
| CFSM        | 1.95  | 1.74   | 1.65  | 3.48  | 2.41  | 5.95   | 4.75  | 3.42  | 2.44  | 2.46  | 1.32  | .94   |
| IN.         | 2.25  | 1.94   | 1.91  | 4.01  | 2.60  | 6.86   | 5.30  | 3.95  | 2.72  | 2.84  | 1.52  | 1.05  |
| CAL YR 1975 | TOTAL | 527940 | MEAN  | 1446  | MAX   | 10700  | MIN   | 443   | CFSM  | 2.39  | IN    | 32.46 |
| WTR YR 1976 | TOTAL | 600789 | MEAN  | 1642  | MAX   | 17700  | MIN   | 486   | CFSM  | 2.71  | IN    | 36.94 |

02392000 ETOWAH RIVER AT CANTON, GA.--Continued

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

| DAY                                               | OCT  | NOV  | DEC  | JAN   | FEB  | MAR   | APR   | MAY   | JUN  | JUL  | AUG  | SEP  |
|---------------------------------------------------|------|------|------|-------|------|-------|-------|-------|------|------|------|------|
| 1                                                 | 4.62 | 3.05 | 4.98 | 9.60  | 5.59 | 4.23  | 22.13 | 5.15  | 5.56 | 5.35 | 3.44 | 2.58 |
| 2                                                 | 9.56 | 3.02 | 4.96 | 6.48  | 6.32 | 4.17  | 14.42 | 5.49  | 5.25 | 4.40 | 3.28 | 2.57 |
| 3                                                 | 5.81 | 3.01 | 4.33 | 6.06  | 5.57 | 4.12  | 10.96 | 4.81  | 5.10 | 4.03 | 3.16 | 2.58 |
| 4                                                 | 4.32 | 2.97 | 4.05 | 7.00  | 5.23 | 4.08  | 10.14 | 4.56  | 5.25 | 5.26 | 3.07 | 2.60 |
| 5                                                 | 3.82 | 2.95 | 3.87 | 5.62  | 5.03 | 4.04  | 9.44  | 4.45  | 4.84 | 9.69 | 3.04 | 2.69 |
| 6                                                 | 3.62 | 2.92 | 3.75 | 5.05  | 4.95 | 4.51  | 8.73  | 4.40  | 4.58 | 7.28 | 3.02 | 2.68 |
| 7                                                 | 3.50 | 3.48 | 3.69 | 5.18  | 4.81 | 4.75  | 8.23  | 4.45  | 4.44 | 7.26 | 3.36 | 2.61 |
| 8                                                 | 3.82 | 4.75 | 3.63 | 8.39  | 4.68 | 4.29  | 7.78  | 5.03  | 4.39 | 6.09 | 3.29 | 2.55 |
| 9                                                 | 4.04 | 3.79 | 3.57 | 6.33  | 4.60 | 4.49  | 7.31  | 4.64  | 4.32 | 5.27 | 3.07 | 2.47 |
| 10                                                | 3.65 | 3.58 | 3.56 | 5.38  | 4.50 | 5.01  | 6.91  | 4.43  | 4.31 | 4.90 | 3.00 | 2.43 |
| 11                                                | 3.35 | 3.67 | 3.46 | 5.03  | 4.44 | 4.59  | 6.62  | 4.40  | 4.24 | 4.57 | 2.95 | 2.34 |
| 12                                                | 3.23 | 4.20 | 3.39 | 5.07  | 4.39 | 5.88  | 6.44  | 4.57  | 4.11 | 4.38 | 2.86 | 2.29 |
| 13                                                | 3.08 | 7.78 | 3.35 | 4.84  | 4.31 | 16.10 | 6.18  | 4.32  | 3.98 | 4.24 | 2.83 | 2.25 |
| 14                                                | 3.00 | 5.58 | 3.33 | 5.29  | 4.28 | 10.12 | 6.02  | 4.71  | 3.90 | 4.07 | 2.85 | 2.21 |
| 15                                                | 2.92 | 4.58 | 3.31 | 5.18  | 4.23 | 8.33  | 5.76  | 12.85 | 3.86 | 3.94 | 2.80 | 2.25 |
| 16                                                | 2.89 | 4.16 | 3.52 | 4.84  | 4.21 | 17.10 | 5.61  | 11.57 | 3.82 | 3.84 | 3.18 | 2.27 |
| 17                                                | 4.76 | 3.92 | 3.89 | 4.68  | 4.18 | 17.92 | 5.49  | 7.78  | 3.76 | 3.90 | 3.09 | 2.22 |
| 18                                                | 9.54 | 3.74 | 3.60 | 4.47  | 4.43 | 9.79  | 5.38  | 6.56  | 3.85 | 3.80 | 2.88 | 2.18 |
| 19                                                | 5.95 | 3.60 | 3.41 | 4.30  | 5.74 | 8.10  | 5.23  | 5.83  | 4.95 | 3.68 | 2.76 | 2.14 |
| 20                                                | 4.74 | 3.56 | 3.31 | 4.24  | 4.81 | 7.36  | 5.18  | 5.40  | 7.13 | 3.74 | 2.67 | 2.12 |
| 21                                                | 4.23 | 4.63 | 3.30 | 4.22  | 4.51 | 8.36  | 5.28  | 5.10  | 6.02 | 4.20 | 2.61 | 2.30 |
| 22                                                | 3.92 | 4.55 | 3.26 | 4.15  | 6.15 | 7.98  | 5.18  | 4.91  | 4.84 | 3.70 | 2.59 | 2.31 |
| 23                                                | 3.76 | 4.08 | 3.21 | 4.09  | 5.89 | 6.94  | 5.00  | 4.80  | 4.41 | 3.65 | 2.63 | 2.17 |
| 24                                                | 3.64 | 4.17 | 3.18 | 4.07  | 5.10 | 6.49  | 4.91  | 4.73  | 4.25 | 3.64 | 2.81 | 2.13 |
| 25                                                | 3.48 | 3.96 | 3.21 | 4.07  | 4.78 | 6.20  | 5.01  | 4.55  | 4.08 | 3.49 | 2.87 | 2.09 |
| 26                                                | 3.43 | 3.80 | 4.18 | 10.61 | 4.61 | 5.98  | 4.93  | 4.42  | 4.20 | 3.36 | 2.64 | 2.09 |
| 27                                                | 3.32 | 3.81 | 4.54 | 15.20 | 4.48 | 6.15  | 4.74  | 4.39  | 5.28 | 3.70 | 2.89 | 2.19 |
| 28                                                | 3.31 | 3.89 | 3.96 | 8.65  | 4.38 | 6.20  | 4.62  | 5.81  | 4.49 | 5.08 | 3.12 | 2.32 |
| 29                                                | 3.25 | 3.69 | 3.71 | 6.92  | 4.30 | 5.81  | 4.52  | 9.43  | 4.10 | 3.76 | 2.95 | 2.33 |
| 30                                                | 3.21 | 3.63 | 3.68 | 6.10  | ---  | 14.69 | 4.53  | 7.85  | 4.69 | 3.48 | 2.80 | 2.56 |
| 31                                                | 3.14 | ---  | 7.52 | 5.62  | ---  | 21.06 | ---   | 6.35  | ---  | 3.54 | 2.69 | ---  |
| MEAN                                              | 4.16 | 3.95 | 3.83 | 6.02  | 4.84 | 7.90  | 7.09  | 5.73  | 4.60 | 4.56 | 2.94 | 2.35 |
| MAX                                               | 9.56 | 7.78 | 7.52 | 15.20 | 6.32 | 21.06 | 22.13 | 12.85 | 7.13 | 9.69 | 3.44 | 2.69 |
| MIN                                               | 2.89 | 2.92 | 3.18 | 4.07  | 4.18 | 4.04  | 4.52  | 4.32  | 3.76 | 3.36 | 2.59 | 2.09 |
| WTR YR 1976    MEAN 4.84    MAX 22.13    MIN 2.09 |      |      |      |       |      |       |       |       |      |      |      |      |

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, 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 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| NOV.<br>24... | 1015 | 1130                                          | 6.9           | 7.0                         | 5.6                                |
| FEB.<br>17... | 0945 | 1290                                          | 6.7           | 12.0                        | 10.5                               |
| MAY<br>11...  | 0830 | 1370                                          | 7.3           | 15.5                        | 9.0                                |
| JULY<br>21... | 1230 | 1280                                          | 7.0           | 21.0                        | 8.1                                |
| SEP.<br>27... | 0905 | 510                                           | 7.1           | 20.0                        | 8.0                                |

| DATE          | ALKA-<br>LINITY<br>AS<br>CaCO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) |
|---------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|
| NOV.<br>24... | 11                                       | .10                                                  | <.02                                               | .02                                       | 10                                  |
| FEB.<br>17... | 11                                       | .16                                                  | .02                                                | .03                                       | 9                                   |
| MAY<br>11...  | 10                                       | .12                                                  | <.02                                               | .02                                       | 10                                  |
| JULY<br>21... | 11                                       | .24                                                  | <.02                                               | .08                                       | 10                                  |
| SEP.<br>27... | 12                                       | .08                                                  | .03                                                | <.02                                      | 10                                  |

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| NOV.<br>24... | 32                                                         | 8                                            | 8                            | .2                                                           | 2300                                             | 4.0                                         |
| FEB.<br>17... | 30                                                         | 5                                            | 9                            | .3                                                           | 430                                              | 2.0                                         |
| MAY<br>11...  | 29                                                         | 5                                            | 12                           | .5                                                           | 390                                              | 12                                          |
| JULY<br>21... | 33                                                         | 30                                           | 50                           | .9                                                           | 23000                                            | 7.0                                         |
| SEP.<br>27... | 34                                                         | 10                                           | 3                            | .3                                                           | 91                                               | 2.0                                         |

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

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

## 02392500 LITTLE RIVER NEAR ROSWELL, GA.

LOCATION.--Lat 34°07'09", long 84°23'18", Fulton County, on upstream side of bridge on State Highway 140, 1 mi (1.6 km) downstream from Cooper Sandy Creek, and 7 mi (11.3 km) north of Roswell.

DRAINAGE AREA.--60.5 mi<sup>2</sup> (157 km<sup>2</sup>).

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1947 to September 1976 (discontinued). Monthly discharge for some periods, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 894.8 ft (272.74 m) above mean sea level (levels by Georgia Department of Transportation). Prior to July 25, 1949, nonrecording gage, and July 25, 1949 to Sept. 30, 1965, water-stage recorder at site 500 ft (152 m) upstream at datum 3.00 (0.91 m) higher.

REMARKS.--Records good. Runoff affected at times by several flood-detention reservoirs upstream.

AVERAGE DISCHARGE.--29 years, 84.7 ft<sup>3</sup>/s (2.40 m<sup>3</sup>/s), 19.01 in/yr (482.9 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,040 ft<sup>3</sup>/s (114 m<sup>3</sup>/s) Feb. 21, 1961, gage height, 15.6 ft (4.75 m), minimum daily, 2.1 ft<sup>3</sup>/s (0.059 m<sup>3</sup>/s) Sept. 22-24, 1955.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1890, 18.0 ft (5.49 m), former site and datum, in January 1946, from information by local resident, discharge, 5,000 ft<sup>3</sup>/s (142 m<sup>3</sup>/s), from rating curve extended above 2,600 ft<sup>3</sup>/s (73.6 m<sup>3</sup>/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 900 ft<sup>3</sup>/s (25.5 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Dec. 31 | 0800 | 1030 29.2                                             | 6.90 2.103              | Mar. 31 | 1500 | 1730 49.0                                             | 9.91 3.021              |
| Jan. 26 | 1330 | 1400 39.6                                             | 8.57 2.612              | May 15  | 0830 | 1120 31.7                                             | 7.33 2.234              |
| Mar. 13 | 0100 | 1190 33.7                                             | 7.67 2.338              | May 28  | 2300 | 972 27.5                                              | 6.78 2.067              |
| Mar. 16 | 1230 | *1870 53.0                                            | 10.49 3.197             |         |      |                                                       |                         |

Minimum daily discharge, 16 ft<sup>3</sup>/s (0.45 m<sup>3</sup>/s) Sept. 25.

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

| DAY         | OCT   | NOV   | DEC      | JAN      | FEB    | MAR       | APR      | MAY  | JUN  | JUL  | AUG  | SEP  |
|-------------|-------|-------|----------|----------|--------|-----------|----------|------|------|------|------|------|
| 1           | 124   | 42    | 219      | 387      | 256    | 77        | 635      | 137  | 123  | 86   | 50   | 20   |
| 2           | 149   | 42    | 131      | 287      | 249    | 73        | 481      | 109  | 129  | 69   | 47   | 20   |
| 3           | 70    | 43    | 97       | 236      | 177    | 70        | 434      | 99   | 251  | 64   | 43   | 20   |
| 4           | 52    | 42    | 82       | 188      | 132    | 68        | 392      | 94   | 228  | 93   | 42   | 25   |
| 5           | 74    | 40    | 73       | 132      | 118    | 68        | 340      | 92   | 131  | 263  | 41   | 29   |
| 6           | 90    | 39    | 69       | 110      | 124    | 106       | 298      | 92   | 107  | 131  | 44   | 28   |
| 7           | 76    | 65    | 70       | 182      | 110    | 95        | 240      | 95   | 97   | 111  | 55   | 28   |
| 8           | 158   | 59    | 68       | 292      | 100    | 76        | 218      | 98   | 90   | 92   | 48   | 28   |
| 9           | 106   | 46    | 67       | 165      | 95     | 115       | 190      | 99   | 90   | 79   | 41   | 26   |
| 10          | 78    | 58    | 62       | 123      | 92     | 106       | 166      | 92   | 97   | 71   | 38   | 31   |
| 11          | 66    | 50    | 56       | 114      | 91     | 84        | 158      | 92   | 119  | 66   | 37   | 24   |
| 12          | 57    | 181   | 53       | 122      | 87     | 262       | 157      | 89   | 85   | 63   | 36   | 22   |
| 13          | 57    | 220   | 51       | 110      | 86     | 668       | 152      | 88   | 77   | 59   | 33   | 20   |
| 14          | 44    | 113   | 51       | 136      | 85     | 388       | 149      | 129  | 74   | 56   | 32   | 20   |
| 15          | 45    | 81    | 52       | 110      | 83     | 521       | 145      | 592  | 71   | 54   | 30   | 21   |
| 16          | 47    | 70    | 81       | 102      | 82     | 1370      | 138      | 253  | 70   | 53   | 28   | 20   |
| 17          | 349   | 65    | 73       | 94       | 82     | 546       | 122      | 163  | 68   | 55   | 27   | 19   |
| 18          | 255   | 59    | 63       | 82       | 95     | 461       | 112      | 136  | 69   | 53   | 26   | 18   |
| 19          | 147   | 56    | 50       | 80       | 91     | 406       | 110      | 110  | 77   | 50   | 25   | 18   |
| 20          | 100   | 62    | 49       | 80       | 80     | 362       | 110      | 93   | 202  | 55   | 41   | 18   |
| 21          | 77    | 132   | 50       | 81       | 86     | 421       | 122      | 86   | 126  | 63   | 23   | 19   |
| 22          | 67    | 83    | 48       | 79       | 165    | 329       | 113      | 83   | 89   | 53   | 23   | 18   |
| 23          | 63    | 87    | 47       | 76       | 116    | 263       | 106      | 83   | 78   | 50   | 24   | 17   |
| 24          | 57    | 85    | 45       | 76       | 95     | 220       | 103      | 82   | 83   | 47   | 26   | 17   |
| 25          | 54    | 74    | 54       | 76       | 88     | 183       | 112      | 80   | 73   | 45   | 24   | 16   |
| 26          | 53    | 67    | 99       | 830      | 86     | 165       | 106      | 76   | 74   | 43   | 23   | 17   |
| 27          | 55    | 77    | 75       | 530      | 83     | 183       | 100      | 82   | 75   | 68   | 27   | 18   |
| 28          | 53    | 68    | 60       | 404      | 77     | 156       | 98       | 328  | 73   | 93   | 28   | 18   |
| 29          | 53    | 61    | 53       | 337      | 76     | 143       | 97       | 410  | 67   | 61   | 26   | 23   |
| 30          | 48    | 68    | 75       | 252      | ---    | 665       | 101      | 222  | 97   | 53   | 24   | 29   |
| 31          | 45    | ---   | 597      | 187      | ---    | 1300      | ---      | 136  | ---  | 53   | 22   | ---  |
| TOTAL       | 2777  | 2235  | 2720     | 6060     | 3187   | 9950      | 5805     | 4420 | 3090 | 2252 | 1034 | 647  |
| MEAN        | 89.6  | 74.5  | 87.7     | 195      | 110    | 321       | 194      | 143  | 103  | 72.6 | 33.4 | 21.6 |
| MAX         | 349   | 220   | 597      | 830      | 256    | 1370      | 635      | 592  | 251  | 263  | 55   | 31   |
| MIN         | 45    | 39    | 45       | 76       | 76     | 68        | 97       | 76   | 67   | 43   | 22   | 16   |
| CFSM        | 1.44  | 1.23  | 1.45     | 3.22     | 1.82   | 5.31      | 3.21     | 2.36 | 1.70 | 1.20 | .55  | .36  |
| IN.         | 1.71  | 1.37  | 1.67     | 3.73     | 1.96   | 6.12      | 3.57     | 2.72 | 1.90 | 1.38 | .64  | .40  |
| CAL YR 1975 | TOTAL | 39978 | MEAN 110 | MAX 1080 | MIN 22 | CFSM 1.82 | IN 24.58 |      |      |      |      |      |
| WTR YR 1976 | TOTAL | 44177 | MEAN 121 | MAX 1370 | MIN 16 | CFSM 2.00 | IN 27.16 |      |      |      |      |      |



## MOBILE RIVER BASIN

02392500 LITTLE RIVER NEAR ROSWELL, GA.--Continued

## WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: February 1971 to September 1976 (discontinued).

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 31.0°C July 22, 1972; minimum, 1.0°C Feb. 14, 1972, Jan. 18, 19, 1976.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 27.0°C July 26, 27, 29; minimum, 1.0°C Jan. 18, 19.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

|       | OCTOBER |      | NOVEMBER |      | DECEMBER |      | JANUARY |     | FEBRUARY |     | MARCH |      |
|-------|---------|------|----------|------|----------|------|---------|-----|----------|-----|-------|------|
| DAY   | MAX     | MIN  | MAX      | MIN  | MAX      | MIN  | MAX     | MIN | MAX      | MIN | MAX   | MIN  |
| 1     | 18.5    | 18.0 | 14.5     | 9.0  | 11.5     | 8.0  | 8.5     | 6.5 | 7.0      | 6.5 | 15.5  | 8.5  |
| 2     | 19.0    | 15.5 | 14.5     | 9.0  | 9.5      | 6.0  | 9.0     | 6.5 | 6.0      | 4.0 | 16.0  | 9.0  |
| 3     | 17.0    | 13.5 | 15.5     | 10.5 | 10.0     | 6.0  | 9.0     | 6.5 | 8.5      | 4.5 | 15.5  | 10.0 |
| 4     | 16.0    | 14.0 | 16.0     | 11.5 | 10.5     | 6.0  | 6.5     | 4.5 | 9.0      | 4.5 | 16.5  | 10.5 |
| 5     | 15.0    | 14.5 | 16.5     | 11.0 | 10.5     | 6.0  | 5.5     | 3.0 | 10.0     | 5.0 | 16.5  | 11.0 |
| 6     | 18.5    | 15.0 | 16.0     | 11.5 | 11.5     | 6.5  | 5.5     | 3.0 | 8.5      | 5.5 | 14.5  | 11.0 |
| 7     | 18.5    | 16.0 | 17.0     | 14.5 | 11.5     | 9.5  | 5.0     | 5.0 | 6.5      | 4.5 | 14.5  | 9.0  |
| 8     | 20.0    | 18.0 | 18.5     | 15.0 | 10.5     | 10.0 | 5.0     | 3.0 | 7.0      | 3.0 | 12.0  | 8.5  |
| 9     | 20.0    | 15.0 | 17.0     | 14.0 | 10.0     | 8.0  | 3.5     | 1.5 | 8.5      | 3.5 | 11.0  | 9.0  |
| 10    | 20.0    | 15.0 | 18.5     | 16.0 | 8.0      | 6.0  | 5.5     | 1.5 | 9.5      | 4.0 | 13.5  | 7.0  |
| 11    | 20.0    | 15.5 | 18.5     | 15.5 | 9.0      | 5.0  | 5.0     | 3.5 | 9.0      | 5.5 | 14.0  | 5.5  |
| 12    | 21.0    | 15.5 | 17.0     | 14.5 | 9.5      | 4.5  | 7.0     | 5.5 | 9.5      | 4.0 | 11.0  | 9.5  |
| 13    | 20.5    | 15.0 | 14.5     | 10.0 | 10.0     | 5.0  | 8.0     | 5.0 | 12.0     | 7.0 | 11.5  | 9.5  |
| 14    | 15.0    | 10.0 | 10.0     | 8.5  | 12.0     | 8.0  | 7.0     | 5.0 | 13.0     | 7.0 | 11.5  | 9.0  |
| 15    | 20.5    | 16.0 | 11.0     | 6.5  | 12.0     | 8.0  | 6.5     | 3.5 | 11.0     | 9.0 | 9.5   | 8.5  |
| 16    | 20.5    | 17.0 | 11.0     | 6.0  | 11.5     | 9.0  | 6.5     | 4.5 | 14.0     | 8.0 | 10.5  | 8.0  |
| 17    | 19.5    | 18.0 | 11.5     | 6.5  | 9.0      | 8.0  | 5.5     | 2.0 | 14.5     | 9.5 | 10.0  | 7.0  |
| 18    | 18.0    | 14.5 | 12.0     | 7.0  | 8.0      | 3.5  | 4.5     | 1.0 | 13.5     | 9.5 | 11.0  | 6.5  |
| 19    | 14.5    | 13.5 | 13.0     | 8.0  | 4.5      | 1.5  | 5.0     | 1.0 | 13.5     | 8.0 | 11.5  | 7.0  |
| 20    | 15.5    | 11.0 | 13.0     | 8.5  | 5.5      | 2.0  | 4.5     | 2.0 | 13.5     | 7.0 | 11.0  | 8.5  |
| 21    | 15.5    | 10.5 | 13.0     | 8.5  | 5.5      | 3.5  | 6.0     | 3.0 | 13.5     | 9.0 | 13.5  | 10.5 |
| 22    | 16.5    | 11.0 | 10.0     | 8.0  | 5.0      | 2.0  | 5.5     | 3.0 | 11.5     | 8.0 | 13.0  | 9.5  |
| 23    | 16.5    | 11.5 | 8.5      | 7.0  | 5.5      | 1.5  | 6.5     | 1.5 | 11.0     | 6.0 | 13.5  | 8.5  |
| 24    | 17.0    | 11.5 | 9.0      | 6.5  | 5.5      | 2.0  | 7.0     | 4.0 | 11.5     | 5.5 | 13.5  | 8.5  |
| 25    | 18.0    | 13.0 | 9.0      | 6.5  | 5.0      | 4.5  | 9.0     | 6.0 | 12.0     | 5.5 | 14.0  | 11.0 |
| 26    | 15.0    | 14.0 | 9.0      | 5.0  | 5.5      | 5.0  | 9.0     | 8.5 | 13.0     | 6.5 | 15.5  | 11.0 |
| 27    | 18.0    | 14.0 | 10.0     | 7.0  | 5.5      | 5.0  | 8.5     | 6.0 | 13.5     | 6.5 | 16.0  | 13.0 |
| 28    | 17.0    | 15.0 | 10.0     | 5.5  | 6.5      | 4.0  | 6.5     | 5.0 | 13.5     | 6.5 | 17.0  | 10.5 |
| 29    | 18.0    | 13.5 | 11.0     | 7.0  | 6.0      | 3.5  | 8.0     | 5.0 | 14.0     | 7.0 | 16.0  | 12.0 |
| 30    | 16.5    | 13.0 | 11.5     | 10.0 | 7.0      | 6.0  | 8.5     | 4.5 | ---      | --- | 15.0  | 13.5 |
| 31    | 14.0    | 9.5  | ---      | ---  | 8.0      | 7.0  | 8.5     | 4.5 | ---      | --- | 15.0  | 12.0 |
| MONTH | 21.0    | 9.5  | 18.5     | 5.0  | 12.0     | 1.5  | 9.0     | 1.0 | 14.5     | 3.0 | 17.0  | 5.5  |



TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

[illegible]

## 02394000 ETOWAH RIVER AT ALLATOONA DAM, ABOVE CARTERSVILLE, GA.

LOCATION.--Lat 34°09'47", long 84°44'28", Bartow County, 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 mi<sup>2</sup> (2,870 km<sup>2</sup>), 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 Lake since December 1949 (see sta. 02393500).

COOPERATION.--Gage-height record, 13 discharge measurements, and computation of daily discharge furnished by Corps of Engineers; records reviewed by Geological Survey.

AVERAGE DISCHARGE.--38 years, 1,883 ft<sup>3</sup>/s (53.3 m<sup>3</sup>/s), 23.04 in/yr (585.2 mm/yr), adjusted for storage since 1950.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,400 ft<sup>3</sup>/s (1,140 m<sup>3</sup>/s) Jan. 8, 1946, gage height, 20.8 ft (6.34 m), from rating curve extended above 26,000 ft<sup>3</sup>/s (736 m<sup>3</sup>/s); minimum daily, 152 ft<sup>3</sup>/s (4.30 m<sup>3</sup>/s) Oct. 15, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,020 ft<sup>3</sup>/s (255 m<sup>3</sup>/s) Dec. 17, gage height, 7.08 ft (2.158 m); minimum daily, 235 ft<sup>3</sup>/s (6.66 m<sup>3</sup>/s) Oct. 3, 4, Nov. 1, Jan. 11, 24.

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

| DAY         | OCT   | NOV    | DEC   | JAN   | FEB   | MAR    | APR    | MAY   | JUN   | JUL   | AUG   | SEP   |     |       |
|-------------|-------|--------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-----|-------|
| 1           | 3820  | 235    | 5000  | 253   | 1990  | 1250   | 910    | 253   | 4340  | 2810  | 283   | 1530  |     |       |
| 2           | 390   | 573    | 2620  | 1990  | 5790  | 1760   | 1510   | 244   | 4320  | 2970  | 1770  | 1530  |     |       |
| 3           | 235   | 2920   | 2620  | 244   | 5840  | 1760   | 3550   | 3070  | 4330  | 280   | 283   | 2740  |     |       |
| 4           | 235   | 2920   | 2620  | 244   | 5850  | 1750   | 6730   | 3070  | 4380  | 280   | 404   | 326   |     |       |
| 5           | 569   | 2530   | 2620  | 5680  | 5910  | 1750   | 8020   | 4310  | 273   | 275   | 1720  | 730   |     |       |
| 6           | 2090  | 3830   | 253   | 5680  | 5940  | 283    | 7980   | 3600  | 263   | 2850  | 1730  | 730   |     |       |
| 7           | 2340  | 4070   | 253   | 5860  | 1770  | 283    | 7920   | 3060  | 3590  | 2250  | 283   | 1460  |     |       |
| 8           | 2300  | 253    | 4550  | 5790  | 1380  | 1220   | 8000   | 250   | 3640  | 4960  | 283   | 1460  |     |       |
| 9           | 1620  | 583    | 5120  | 6000  | 3560  | 1220   | 8020   | 250   | 3570  | 5260  | 1480  | 1470  |     |       |
| 10          | 2550  | 2750   | 5660  | 550   | 3310  | 1220   | 8170   | 2940  | 3570  | 4190  | 1510  | 1450  |     |       |
| 11          | 1570  | 2120   | 5540  | 235   | 3310  | 1220   | 8120   | 2980  | 3590  | 1720  | 1460  | 315   |     |       |
| 12          | 961   | 2860   | 5840  | 4520  | 3310  | 1220   | 8190   | 2980  | 1140  | 5580  | 1750  | 744   |     |       |
| 13          | 3930  | 4830   | 253   | 4500  | 3260  | 269    | 8190   | 1670  | 283   | 5230  | 1480  | 2140  |     |       |
| 14          | 3920  | 4540   | 253   | 4570  | 253   | 283    | 8210   | 1670  | 1710  | 3730  | 273   | 1450  |     |       |
| 15          | 3940  | 883    | 2860  | 4560  | 253   | 3440   | 8210   | 250   | 1700  | 3200  | 273   | 1460  |     |       |
| 16          | 4140  | 244    | 4380  | 4630  | 1450  | 1110   | 8270   | 250   | 1700  | 3010  | 1890  | 1490  |     |       |
| 17          | 3980  | 4670   | 5540  | 3500  | 1120  | 1470   | 8330   | 5750  | 1700  | 283   | 1900  | 1460  |     |       |
| 18          | 253   | 4680   | 6210  | 1920  | 1150  | 3040   | 6660   | 8190  | 1700  | 283   | 283   | 737   |     |       |
| 19          | 244   | 4670   | 2300  | 3320  | 1100  | 6190   | 5710   | 8050  | 280   | 1430  | 930   | 731   |     |       |
| 20          | 3780  | 4740   | 253   | 2110  | 1790  | 8070   | 5650   | 5710  | 280   | 1430  | 1920  | 3580  |     |       |
| 21          | 5420  | 4740   | 244   | 2580  | 253   | 8120   | 5740   | 5740  | 2430  | 3700  | 304   | 1400  |     |       |
| 22          | 5430  | 253    | 1380  | 2420  | 1120  | 8070   | 5700   | 250   | 1780  | 2320  | 2670  | 1400  |     |       |
| 23          | 5480  | 263    | 1150  | 1180  | 2200  | 8300   | 5710   | 250   | 2920  | 2180  | 4060  | 1400  |     |       |
| 24          | 5490  | 4950   | 760   | 235   | 1130  | 8350   | 253    | 4340  | 2390  | 2810  | 2920  | 1400  |     |       |
| 25          | 244   | 4980   | 753   | 244   | 1130  | 8510   | 244    | 4350  | 2390  | 304   | 3340  | 2980  |     |       |
| 26          | 685   | 5130   | 1560  | 315   | 1140  | 8490   | 910    | 4370  | 280   | 3550  | 2380  | 1170  |     |       |
| 27          | 3220  | 263    | 253   | 273   | 1150  | 8160   | 1420   | 4380  | 280   | 1240  | 2410  | 3370  |     |       |
| 28          | 3310  | 1840   | 731   | 2280  | 263   | 8170   | 3840   | 4380  | 2310  | 1700  | 1960  | 1250  |     |       |
| 29          | 3340  | 253    | 639   | 4640  | 273   | 8110   | 2860   | 263   | 2320  | 1700  | 315   | 1600  |     |       |
| 30          | 3300  | 263    | 735   | 5740  | ---   | 1650   | 2580   | 283   | 2310  | 1510  | 2330  | 1180  |     |       |
| 31          | 3300  | ---    | 2330  | 5490  | ---   | 762    | ---    | 4340  | ---   | 283   | 1080  | ---   |     |       |
| TOTAL       | 82086 | 77836  | 75280 | 91553 | 67095 | 115500 | 165607 | 91493 | 65769 | 73318 | 45674 | 44683 |     |       |
| MEAN        | 2648  | 2595   | 2428  | 2953  | 2314  | 3726   | 5520   | 2951  | 2192  | 2365  | 1473  | 1489  |     |       |
| MAX         | 5490  | 5130   | 6210  | 6000  | 5940  | 8510   | 8330   | 8190  | 4380  | 5580  | 4060  | 3580  |     |       |
| MIN         | 235   | 235    | 244   | 235   | 253   | 269    | 244    | 244   | 263   | 275   | 273   | 315   |     |       |
| (†)         | -616  | -738   | -629  | +927  | +75   | +2939  | -1281  | +194  | -57   | -294  | -470  | -792  |     |       |
| MEAN†       | 2032  | 1857   | 1799  | 3880  | 2389  | 6665   | 4239   | 3145  | 2135  | 2071  | 1003  | 697   |     |       |
| CFSM†       | 1.83  | 1.67   | 1.62  | 3.50  | 2.15  | 6.00   | 3.82   | 2.83  | 1.92  | 1.87  | .90   | .63   |     |       |
| IN†         | 2.11  | 1.86   | 1.87  | 4.04  | 2.32  | 6.92   | 4.26   | 3.26  | 2.14  | 2.16  | 1.04  | .70   |     |       |
| CAL YR 1975 | TOTAL | 892271 | MEAN  | 2445  | MAX   | 8510   | MIN    | 235   | MEAN† | 2439  | CFSM† | 2.20  | IN† | 29.86 |
| WTR YR 1976 | TOTAL | 995894 | MEAN  | 2721  | MAX   | 8510   | MIN    | 235   | MEAN† | 2665  | CFSM† | 2.40  | IN† | 32.67 |

† Change in contents, equivalent in cubic feet per second, in Allatoona Lake; furnished by Corps of Engineers.

‡ Adjusted for change in contents in Allatoona Lake.

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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |  |  |
|---------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|--|--|
| OCT.<br>14... | 0915 | 3020                                          | 7.0           | 19.0                        | 7.5                                |  |  |
| NOV.<br>24... | 1210 | 8480                                          | 6.9           | 13.0                        | 7.3                                |  |  |
| JAN.<br>05... | 0945 | 8620                                          | 6.7           | 7.0                         | 10.8                               |  |  |
| FEB.<br>17... | 1100 | 337                                           | 6.7           | 8.0                         | 11.2                               |  |  |
| MAR.<br>15... | 0925 | 5040                                          | 7.0           | 6.5                         | 10.2                               |  |  |
| MAY<br>10...  | 0840 | 263                                           | 7.1           | 15.0                        | 6.9                                |  |  |
| JUNE<br>14... | 0835 | 293                                           | 7.1           | 19.0                        | 6.2                                |  |  |
| JULY<br>19... | 0935 | 273                                           | 7.1           | 20.0                        | 6.0                                |  |  |
| AUG.<br>23... | 0900 | 283                                           | 7.2           | 23.5                        | 4.0                                |  |  |
| SEP.<br>28... | 0900 | 326                                           | 6.7           | 22.0                        | 6.2                                |  |  |

| DATE          | TOTAL<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | ALKA-<br>LINITY<br>AS<br>CaCO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) |
|---------------|---------------------------------|-------------------------------------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|
| OCT.<br>14... | 680                             | 100                                       | 15                                       | .10                                                  | .12                                                | .02                                       | 18                                                   |
| NOV.<br>24... | 510                             | 50                                        | 15                                       | .08                                                  | .06                                                | .02                                       | 7                                                    |
| JAN.<br>05... | 250                             | <50                                       | 13                                       | .17                                                  | .07                                                | .02                                       | 4                                                    |
| FEB.<br>17... | 1700                            | 70                                        | 11                                       | .30                                                  | .09                                                | .05                                       | 2                                                    |
| MAR.<br>15... | 890                             | <50                                       | 11                                       | .21                                                  | .03                                                | .05                                       | 9                                                    |
| MAY<br>10...  | 950                             | <50                                       | 11                                       | .17                                                  | .03                                                | .03                                       | <1                                                   |
| JUNE<br>14... | 200                             | <50                                       | 13                                       | .13                                                  | .05                                                | .02                                       | <1                                                   |
| JULY<br>19... | 200                             | 50                                        | 13                                       | .19                                                  | <.02                                               | <.02                                      | 2                                                    |
| AUG.<br>23... | 140                             | 220                                       | 15                                       | .11                                                  | .06                                                | .02                                       | <1                                                   |
| SEP.<br>28... | 100                             | <50                                       | 15                                       | .06                                                  | .05                                                | <.02                                      | <1                                                   |

02394000 ETOWAH RIVER AT ALLATOONA DAM, ABOVE CARTERSVILLE, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICHO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>14... | 12                                 | 39                                                         | 10                                           | 15                           | .6                                                           | 110                                              | 3.0                                         |
| NOV.<br>24... | 14                                 | 41                                                         | 8                                            | 12                           | .7                                                           | <30                                              | 6.0                                         |
| JAN.<br>05... | 13                                 | 41                                                         | 5                                            | 7                            | .8                                                           | 36                                               | 5.0                                         |
| FEB.<br>17... | 11                                 | 39                                                         | 60                                           | 37                           | .7                                                           | 36                                               | 4.0                                         |
| MAR.<br>15... | 12                                 | 37                                                         | 40                                           | 25                           | .5                                                           | <30                                              | 3.0                                         |
| MAY<br>10...  | 13                                 | 35                                                         | 80                                           | 24                           | .6                                                           | <30                                              | 9.0                                         |
| JUNE<br>14... | 12                                 | 35                                                         | 10                                           | 5                            | .4                                                           | <30                                              | 3.0                                         |
| JULY<br>19... | 12                                 | 38                                                         | 8                                            | 7                            | .1                                                           | 43000                                            | 1.0                                         |
| AUG.<br>23... | 14                                 | 39                                                         | 5                                            | 2                            | .5                                                           | 150                                              | 4.0                                         |
| SEP.<br>28... | 17                                 | 41                                                         | 10                                           | 1                            | .3                                                           | <30                                              | 2.0                                         |

02394980 ETOWAH RIVER NEAR EUHARLEE, GA.

LOCATION.--Lat 34°11'28", long 84°55'44", Bartow County, 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 mi<sup>2</sup> (4,100 km<sup>2</sup>), approximately.

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

REMARKS.--Flow regulated by Allatoona Lake (see station 02393500). 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 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.<br>14... | 1020 | 901                                      | 7.5           | 19.0                        | 8.3                                |
| NOV.<br>24... | 1330 | 5040                                     | 7.5           | 9.5                         | 11.0                               |
| JAN.<br>05... | 1110 | 1220                                     | 7.5           | 6.5                         | 12.1                               |
| FEB.<br>17... | 1210 | 1520                                     | 7.7           | 11.5                        | 10.6                               |
| MAR.<br>17... | 1345 | 12300                                    | 7.0           | 7.5                         | 10.0                               |
| APR.<br>12... | 0950 | 8200                                     | 7.0           | 11.5                        | 10.0                               |
| MAY<br>10...  | 0930 | 915                                      | 7.7           | 17.0                        | 8.2                                |
| JUNE<br>16... | 0720 | 915                                      | 7.5           | 19.0                        | 7.5                                |
| JULY<br>19... | 1045 | 778                                      | 7.7           | 22.0                        | 7.9                                |
| AUG.<br>23... | 1000 | 724                                      | 7.3           | 23.0                        | 6.9                                |
| SEP.<br>28... | 1000 | 634                                      | 7.4           | 22.0                        | 7.4                                |

| DATE          | ALKALINITY<br>AS<br>CaCO <sub>3</sub><br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FIL-<br>TRABLE<br>RESIDUE<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) |
|---------------|-------------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|------------------------------------|
| OCT.<br>14... | 41                                              | .19                                                  | .08                                                | .04                                       | 8                                                    | 42                                 |
| NOV.<br>24... | 40                                              | .21                                                  | .05                                                | .07                                       | 30                                                   | 42                                 |
| JAN.<br>05... | 42                                              | .31                                                  | <.02                                               | .06                                       | 15                                                   | 46                                 |
| FEB.<br>17... | 43                                              | .40                                                  | .04                                                | .06                                       | 16                                                   | 48                                 |
| MAR.<br>17... | 15                                              | .16                                                  | .07                                                | .18                                       | 120                                                  | 18                                 |
| APR.<br>12... | 16                                              | .21                                                  | .04                                                | .05                                       | 14                                                   | 16                                 |
| MAY<br>10...  | 52                                              | .39                                                  | <.02                                               | .05                                       | 3                                                    | 60                                 |
| JUNE<br>16... | 31                                              | .26                                                  | <.02                                               | .04                                       | 4                                                    | 32                                 |
| JULY<br>19... | 61                                              | .39                                                  | <.02                                               | .05                                       | 7                                                    | 66                                 |
| AUG.<br>23... | 33                                              | .20                                                  | .07                                                | .02                                       | 2                                                    | 56                                 |
| SEP.<br>28... | 31                                              | .15                                                  | .05                                                | .02                                       | <1                                                   | 33                                 |

02394980 ETOWAH RIVER NEAR EUHARLEE, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>IDITY<br>(JTU) | RIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(FC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|--------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>14... | 98                                                         | 10                                           | 11                             | .9                                                           | 73                                               | 6.0                                         |
| NOV.<br>24... | 100                                                        | 20                                           | 23                             | .5                                                           | 430                                              | 9.0                                         |
| JAN.<br>05... | 111                                                        | 40                                           | 26                             | .5                                                           | 930                                              | 5.0                                         |
| FEB.<br>17... | 113                                                        | 50                                           | 31                             | .5                                                           | 430                                              | 3.0                                         |
| MAR.<br>17... | 47                                                         | 160                                          | 148                            | 1.4                                                          | 9300                                             | 7.0                                         |
| APR.<br>12... | 46                                                         | 70                                           | 32                             | .6                                                           | 430                                              | 3.0                                         |
| MAY<br>10...  | 136                                                        | 80                                           | 18                             | .3                                                           | 230                                              | 8.0                                         |
| JUNE<br>16... | 79                                                         | 10                                           | 10                             | 1.0                                                          | 930                                              | 2.0                                         |
| JULY<br>19... | 152                                                        | 8                                            | 13                             | .4                                                           | 430                                              | 1.0                                         |
| AUG.<br>23... | 85                                                         | 5                                            | 4                              | .4                                                           | 91                                               | 2.0                                         |
| SEP.<br>28... | 85                                                         | 10                                           | 4                              | .5                                                           | 930                                              | 2.0                                         |

## 02395000 ETOWAH RIVER NEAR KINGSTON, GA.

LOCATION.--Lat 34°12'24", long 84°58'44", Bartow County, 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 mi<sup>2</sup> (4,220 km<sup>2</sup>), 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. Flow regulated by Allatoona Lake since December 1949 (see sta. 02393500). Records of chemical analyses for the water years 1970-74 are published in reports of the Geological Survey.

COOPERATION.--Gage-height record, 14 discharge measurements, and computation of daily discharge furnished by Corps of Engineers; records reviewed by Geological Survey.

AVERAGE DISCHARGE.--43 years, 2,544 ft<sup>3</sup>/s (72.0 m<sup>3</sup>/s), 21.20 in/yr (538.5 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,700 ft<sup>3</sup>/s (1,210 m<sup>3</sup>/s) Apr. 9, 1938, gage height, 27.7 ft (8.44 m); minimum daily, 268 ft<sup>3</sup>/s (7.59 m<sup>3</sup>/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 ft<sup>3</sup>/s (1,470 m<sup>3</sup>/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,800 ft<sup>3</sup>/s (561 m<sup>3</sup>/s) Mar. 31, gage height, 17.35 ft (5.288 m); minimum daily, 667 ft<sup>3</sup>/s (18.89 m<sup>3</sup>/s) Aug. 15.

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

| DAY   | OCT    | NOV   | DEC   | JAN    | FEB   | MAR    | APR    | MAY    | JUN   | JUL   | AUG   | SEP   |
|-------|--------|-------|-------|--------|-------|--------|--------|--------|-------|-------|-------|-------|
| 1     | 6780   | 1980  | 4540  | 3900   | 3440  | 1600   | 13400  | 2430   | 5380  | 3170  | 698   | 1650  |
| 2     | 6430   | 685   | 4360  | 2470   | 6170  | 1590   | 5660   | 1120   | 4850  | 3860  | 1390  | 1780  |
| 3     | 2210   | 2040  | 3530  | 2270   | 6710  | 2300   | 5010   | 2250   | 4990  | 1640  | 1310  | 2990  |
| 4     | 1230   | 3250  | 3210  | 1780   | 6480  | 1450   | 7850   | 4100   | 5250  | 1010  | 762   | 1140  |
| 5     | 1130   | 3510  | 3250  | 4090   | 6610  | 2160   | 9330   | 4190   | 2720  | 2130  | 1390  | 710   |
| 6     | 2220   | 3480  | 1850  | 6180   | 6650  | 2360   | 9220   | 5390   | 1090  | 2680  | 2110  | 1020  |
| 7     | 3180   | 4680  | 901   | 6730   | 4450  | 1260   | 9040   | 2610   | 2800  | 3950  | 1500  | 1240  |
| 8     | 3620   | 2860  | 3680  | 8470   | 2560  | 1930   | 8910   | 2320   | 4120  | 4850  | 844   | 1720  |
| 9     | 3290   | 1070  | 5000  | 7480   | 2880  | 2040   | 8940   | 1040   | 4030  | 5590  | 1020  | 1730  |
| 10    | 2720   | 2360  | 5970  | 4070   | 4080  | 2200   | 8860   | 2970   | 4150  | 5130  | 1840  | 1730  |
| 11    | 2780   | 3040  | 5970  | 1260   | 3990  | 1830   | 8760   | 3490   | 4140  | 2200  | 1820  | 1280  |
| 12    | 1810   | 2590  | 5900  | 3650   | 3960  | 2340   | 8770   | 3530   | 2450  | 5360  | 1800  | 938   |
| 13    | 3380   | 7430  | 2450  | 5160   | 3830  | 5420   | 8770   | 2240   | 1590  | 5990  | 2080  | 1120  |
| 14    | 4330   | 5670  | 858   | 5670   | 2480  | 2540   | 8760   | 2390   | 1660  | 4400  | 1280  | 2300  |
| 15    | 4340   | 3840  | 2240  | 5630   | 986   | 4900   | 8700   | 3120   | 2020  | 3990  | 667   | 1690  |
| 16    | 4560   | 1060  | 4720  | 5470   | 1820  | 15800  | 8820   | 2430   | 2240  | 3720  | 1540  | 1700  |
| 17    | 4680   | 3050  | 4910  | 4520   | 2090  | 11900  | 8710   | 4770   | 2180  | 1560  | 2300  | 1700  |
| 18    | 2750   | 5260  | 6150  | 2910   | 1720  | 5380   | 7160   | 8670   | 2200  | 816   | 1460  | 1180  |
| 19    | 1230   | 4820  | 4250  | 4820   | 2170  | 7350   | 6730   | 8630   | 1610  | 1280  | 861   | 816   |
| 20    | 2400   | 5310  | 1990  | 2760   | 2560  | 9280   | 5880   | 6380   | 2010  | 1740  | 1630  | 2660  |
| 21    | 5740   | 5320  | 865   | 2890   | 946   | 10600  | 6230   | 6200   | 3180  | 3020  | 1420  | 2400  |
| 22    | 5840   | 2710  | 1470  | 3250   | 1220  | 10200  | 6180   | 2950   | 2840  | 3430  | 1950  | 1590  |
| 23    | 5800   | 1020  | 2050  | 2560   | 2860  | 9540   | 6280   | 978    | 3440  | 3010  | 3480  | 1630  |
| 24    | 5810   | 3920  | 788   | 1010   | 2940  | 9500   | 3360   | 3300   | 2990  | 2830  | 3780  | 1630  |
| 25    | 2850   | 5290  | 1290  | 930    | 1720  | 9280   | 1090   | 4740   | 2720  | 1460  | 3000  | 2320  |
| 26    | 887    | 5480  | 2530  | 5580   | 1870  | 9180   | 1100   | 4810   | 1620  | 3060  | 3120  | 2330  |
| 27    | 2680   | 2420  | 1380  | 9440   | 1860  | 9540   | 2660   | 4790   | 1140  | 2290  | 2640  | 3280  |
| 28    | 3770   | 1530  | 1010  | 4360   | 978   | 9600   | 2850   | 5650   | 2120  | 2220  | 2380  | 1590  |
| 29    | 3770   | 1720  | 1780  | 5700   | 946   | 9120   | 3590   | 3010   | 2740  | 2060  | 1470  | 1460  |
| 30    | 3700   | 901   | 837   | 7020   | ---   | 11600  | 3380   | 1150   | 3030  | 2020  | 2030  | 1810  |
| 31    | 3770   | ---   | 3060  | 6820   | ---   | 16100  | ---    | 3370   | ---   | 1130  | 1540  | ---   |
| TOTAL | 109687 | 98296 | 92789 | 138850 | 90976 | 199890 | 204000 | 115018 | 87300 | 91596 | 55112 | 51134 |
| MEAN  | 3538   | 3277  | 2993  | 4479   | 3137  | 6448   | 6800   | 3710   | 2910  | 2955  | 1778  | 1704  |
| MAX   | 6780   | 7430  | 6150  | 9440   | 6710  | 16100  | 13400  | 8670   | 5380  | 5990  | 3780  | 3280  |
| MIN   | 887    | 685   | 788   | 930    | 946   | 1260   | 1090   | 978    | 1090  | 816   | 667   | 710   |

CAL YR 1975 TOTAL 1190433 MEAN 3261 MAX 11500 MIN 550 MEAN† 3255 CFSM† 2.00 IN† 27.15  
WTR YR 1976 TOTAL 1334648 MEAN 3647 MAX 16100 MIN 667 MEAN† 3591 CFSM† 2.20 IN† 29.95

† Adjusted for change in contents in Allatoona Lake.



## 02396000 ETOWAH RIVER AT ROME, GA.

LOCATION.--Lat 34°15'26", long 85°09'30", Floyd County, 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 mi<sup>2</sup> (4,690 km<sup>2</sup>), 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. Flow regulated by Allatoona Lake since 1949 (see sta. 02393500).

AVERAGE DISCHARGE.--54 years (1904-20, 1938-76), 2,940 ft<sup>3</sup>/s (83.3 m<sup>3</sup>/s), 22.06 in/yr (560.3 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,000 ft<sup>3</sup>/s (1,560 m<sup>3</sup>/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 ft<sup>3</sup>/s (10.2 m<sup>3</sup>/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 ft<sup>3</sup>/s (1,320 m<sup>3</sup>/s), from gage readings and discharge measurements by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,200 ft<sup>3</sup>/s (685 m<sup>3</sup>/s) Mar. 31; maximum gage height, 30.20 ft (9.205 m) Apr. 1; minimum daily discharge, 655 ft<sup>3</sup>/s (18.6 m<sup>3</sup>/s) Sept. 12.

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

| DAY         | OCT    | NOV     | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN   | JUL    | AUG   | SEP   |      |       |
|-------------|--------|---------|--------|--------|--------|--------|--------|--------|-------|--------|-------|-------|------|-------|
| 1           | 6120   | 3180    | 3220   | 5750   | 6060   | 1490   | 19400  | 3530   | 4920  | 3790   | 1000  | 1570  |      |       |
| 2           | 9460   | 954     | 6000   | 3510   | 5050   | 2000   | 10200  | 1420   | 4930  | 3930   | 1600  | 1850  |      |       |
| 3           | 4100   | 1770    | 4110   | 3720   | 7040   | 2550   | 6900   | 1930   | 4860  | 3380   | 1400  | 2090  |      |       |
| 4           | 2610   | 3550    | 3670   | 3150   | 6940   | 2350   | 8570   | 3940   | 5290  | 1150   | 1000  | 2870  |      |       |
| 5           | 1980   | 3380    | 3650   | 3580   | 6860   | 2570   | 10300  | 4360   | 4490  | 2760   | 1800  | 784   |      |       |
| 6           | 2130   | 3240    | 2850   | 6590   | 6970   | 2850   | 9950   | 5050   | 1350  | 3190   | 2300  | 1010  |      |       |
| 7           | 3480   | 4680    | 1310   | 6820   | 6200   | 2000   | 9470   | 3650   | 1390  | 5290   | 1500  | 1080  |      |       |
| 8           | 4130   | 4850    | 1990   | 8890   | 3250   | 1720   | 9180   | 3320   | 4050  | 5200   | 950   | 1810  |      |       |
| 9           | 4220   | 1660    | 5070   | 8070   | 3170   | 2490   | 9230   | 1330   | 4050  | 6180   | 1200  | 1800  |      |       |
| 10          | 3310   | 1770    | 6040   | 6390   | 4650   | 2870   | 9180   | 1740   | 4110  | 5960   | 1900  | 1850  |      |       |
| 11          | 3460   | 3360    | 6130   | 2370   | 4400   | 2770   | 9140   | 3550   | 4210  | 4650   | 1900  | 1790  |      |       |
| 12          | 2730   | 2860    | 6120   | 2880   | 4470   | 2930   | 9100   | 3750   | 3920  | 3790   | 1900  | 655   |      |       |
| 13          | 2540   | 6620    | 4870   | 5720   | 4160   | 7140   | 8920   | 3140   | 1980  | 5910   | 2100  | 985   |      |       |
| 14          | 4520   | 6310    | 1160   | 6020   | 3600   | 5460   | 8950   | 2600   | 1760  | 4700   | 1500  | 2400  |      |       |
| 15          | 4580   | 5430    | 1760   | 6170   | 1410   | 5150   | 8840   | 3810   | 2540  | 4210   | 800   | 1770  |      |       |
| 16          | 4730   | 2090    | 3870   | 5910   | 1870   | 17500  | 8950   | 3370   | 2560  | 3820   | 1400  | 1740  |      |       |
| 17          | 5080   | 1830    | 5060   | 5340   | 2540   | 16500  | 8920   | 3830   | 2550  | 3300   | 2000  | 1800  |      |       |
| 18          | 5070   | 5450    | 6210   | 4360   | 2230   | 7990   | 7590   | 8550   | 2560  | 850    | 1800  | 1740  |      |       |
| 19          | 2180   | 5120    | 6050   | 4360   | 2940   | 7790   | 7160   | 8570   | 2520  | 900    | 1000  | 1030  |      |       |
| 20          | 1890   | 5380    | 2700   | 3970   | 2980   | 9830   | 6320   | 6290   | 1960  | 1800   | 1600  | 1160  |      |       |
| 21          | 5770   | 5600    | 1140   | 3210   | 2450   | 10800  | 6550   | 6290   | 2290  | 1800   | 1400  | 3550  |      |       |
| 22          | 5950   | 4690    | 1250   | 3610   | 1880   | 11000  | 6630   | 4930   | 3470  | 3800   | 1300  | 1700  |      |       |
| 23          | 6010   | 1380    | 2220   | 3200   | 3110   | 10200  | 6530   | 1490   | 2860  | 2800   | 3140  | 1720  |      |       |
| 24          | 6050   | 2370    | 1650   | 1840   | 3380   | 9960   | 5420   | 1790   | 3310  | 2500   | 3970  | 1690  |      |       |
| 25          | 4830   | 5450    | 1520   | 1310   | 2400   | 9640   | 1530   | 4770   | 2960  | 2800   | 3200  | 1690  |      |       |
| 26          | 1210   | 5670    | 2150   | 4170   | 2200   | 9520   | 1470   | 4910   | 2950  | 800    | 3530  | 3140  |      |       |
| 27          | 2120   | 4680    | 2690   | 11500  | 2250   | 9750   | 2860   | 4910   | 1300  | 3620   | 2850  | 2010  |      |       |
| 28          | 3980   | 1600    | 1770   | 6810   | 1680   | 10000  | 1960   | 5450   | 1360  | 2650   | 2730  | 2920  |      |       |
| 29          | 4040   | 2330    | 2090   | 6450   | 1270   | 9440   | 4760   | 5080   | 2880  | 2300   | 2560  | 1590  |      |       |
| 30          | 3980   | 1220    | 1770   | 7520   | ---    | 14300  | 3520   | 1810   | 3360  | 2000   | 904   | 1950  |      |       |
| 31          | 3990   | ---     | 2520   | 7780   | ---    | 18900  | ---    | 2290   | ---   | 1400   | 2510  | ---   |      |       |
| TOTAL       | 126250 | 108474  | 102610 | 160970 | 107410 | 229460 | 227500 | 121450 | 92740 | 101230 | 58744 | 53744 |      |       |
| MEAN        | 4073   | 3616    | 3310   | 5193   | 3704   | 7402   | 7583   | 3918   | 3091  | 3265   | 1895  | 1791  |      |       |
| MAX         | 9460   | 6620    | 6210   | 11500  | 7040   | 18900  | 19400  | 8570   | 5290  | 6180   | 3970  | 3550  |      |       |
| MIN         | 1210   | 954     | 1140   | 1310   | 1270   | 1490   | 1470   | 1330   | 1300  | 800    | 800   | 655   |      |       |
| CAL YR 1975 | TOTAL  | 1402640 | MEAN   | 3843   | MAX    | 14000  | MIN    | 641    | MEAN† | 3837   | CFSM† | 2.12  | INT† | 28.78 |
| WTR YR 1976 | TOTAL  | 1490582 | MEAN   | 4073   | MAX    | 19400  | MIN    | 655    | MEAN† | 4017   | CFSM† | 2.22  | INT† | 30.22 |

† Adjusted for change in contents in Allatoona Lake.

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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.<br>16... | 0720 | 6340                                     | 7.0           | 19.0                        | 8.3                                |
| DEC.<br>01... | 1000 | 2030                                     | 7.4           | 12.0                        | 10.6                               |
| JAN.<br>07... | 1400 | 4950                                     | 7.1           | 7.0                         | 11.0                               |
| FEB.<br>19... | 1345 | 2300                                     | 7.2           | 13.0                        | 9.8                                |
| MAR.<br>17... | 1045 | 14500                                    | 7.1           | 7.5                         | 10.0                               |
| APR.<br>12... | 1130 | 9100                                     | 6.9           | 12.5                        | 10.2                               |
| MAY<br>10...  | 1145 | 1270                                     | 7.8           | 17.0                        | 8.8                                |
| JUNE<br>16... | 0900 | 3460                                     | 7.8           | 21.5                        | 7.9                                |
| JULY<br>21... | 0930 | 2970                                     | 7.5           | 22.5                        | 7.7                                |
| AUG.<br>25... | 0730 | 4880                                     | 7.3           | 23.0                        | 6.6                                |
| SEP.<br>28... | 1330 | 1470                                     | 7.1           | 23.0                        | 7.6                                |

| DATE          | TOTAL<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | ALKA-<br>LINITY<br>AS<br>CaCO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) |
|---------------|---------------------------------|-------------------------------------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|
| OCT.<br>16... | 1000                            | 180                                       | 21                                       | .16                                                  | .03                                                | .06                                       | 35                                                   |
| DEC.<br>01... | 500                             | <50                                       | 61                                       | .33                                                  | <.02                                               | .04                                       | 12                                                   |
| JAN.<br>07... | 600                             | 80                                        | 22                                       | .22                                                  | .50                                                | .04                                       | 15                                                   |
| FEB.<br>19... | 3200                            | 150                                       | 37                                       | .42                                                  | .08                                                | .16                                       | 73                                                   |
| MAR.<br>17... | 3300                            | 90                                        | 16                                       | .16                                                  | .05                                                | .16                                       | 146                                                  |
| APR.<br>12... | 1250                            | 130                                       | 21                                       | .23                                                  | .03                                                | .05                                       | 21                                                   |
| MAY<br>10...  | 350                             | 50                                        | 62                                       | .39                                                  | <.02                                               | .03                                       | <1                                                   |
| JUNE<br>16... | 460                             | 60                                        | 49                                       | .35                                                  | <.02                                               | .06                                       | 18                                                   |
| JULY<br>21... | 1000                            | 190                                       | 42                                       | .32                                                  | <.02                                               | .03                                       | 23                                                   |
| AUG.<br>25... | 1000                            | 250                                       | 22                                       | .17                                                  | .03                                                | .06                                       | 27                                                   |
| SEP.<br>28... | 440                             | 100                                       | 23                                       | .10                                                  | .04                                                | .03                                       | 6                                                    |

## MOBILE RIVER BASIN

02396000 ETOWAH RIVER AT ROME, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>IDY<br>(JTU) | RIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>16... | 20                                 | 53                                                         | 10                                           | 23                           | .6                                                           | 1500                                             | 3.0                                         |
| DEC.<br>01... | 64                                 | 140                                                        | 20                                           | 14                           | .5                                                           | 2300                                             | 3.0                                         |
| JAN.<br>07... | 20                                 | 50                                                         | 15                                           | 17                           | .3                                                           | 62                                               | 9.0                                         |
| FEB.<br>19... | 40                                 | 97                                                         | 200                                          | 120                          | 1.5                                                          | 4300                                             | 4.0                                         |
| MAR.<br>17... | 20                                 | 51                                                         | 100                                          | 116                          | .5                                                           | 2300                                             | 7.0                                         |
| APR.<br>12... | 22                                 | 56                                                         | 80                                           | 33                           | .6                                                           | 230                                              | 3.0                                         |
| MAY<br>10...  | 68                                 | 146                                                        | 80                                           | 10                           | .5                                                           | 150                                              | 8.0                                         |
| JUNE<br>16... | 54                                 | 121                                                        | 10                                           | 15                           | 1.1                                                          | 230                                              | 2.0                                         |
| JULY<br>21... | 47                                 | 113                                                        | 10                                           | 18                           | .4                                                           | 230                                              | 8.0                                         |
| AUG.<br>25... | 22                                 | 58                                                         | 20                                           | 15                           | 1.0                                                          | 930                                              | 5.0                                         |
| SEP.<br>28... | 24                                 | 57                                                         | 10                                           | 8                            | .4                                                           | 430                                              | 1.0                                         |

## 02397000 COOSA RIVER NEAR ROME, GA.

LOCATION.--Lat 34°12'01", long 85°15'24", Floyd County, 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 mi<sup>2</sup> (10,500 km<sup>2</sup>), 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 Lake since December 1949 and by Carters Lake and re-regulation dam since November 1974 (See stations 02381400, 02382400, and 02393500.).

AVERAGE DISCHARGE.--45 years (1896-1903, 1928-31, 1937-58, 1962-76), 6,677 ft<sup>3</sup>/s (189 m<sup>3</sup>/s), 22.44 in/yr (570.0 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 65,000 ft<sup>3</sup>/s (1,840 m<sup>3</sup>/s) Jan. 22, 1947, gage height, 37.0 ft (11.28 m); minimum daily, 870 ft<sup>3</sup>/s (24.6 m<sup>3</sup>/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 ft<sup>3</sup>/s (2,830 m<sup>3</sup>/s), from rating curve extended above 63,000 ft<sup>3</sup>/s (1,780 m<sup>3</sup>/s) on basis of peak flow at Gadsden, Ala.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 37,700 ft<sup>3</sup>/s (1,070 m<sup>3</sup>/s) Apr. 1, gage height, 29.64 ft (9.034 m); minimum daily, 1,500 ft<sup>3</sup>/s (42.5 m<sup>3</sup>/s) Sept. 12.

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

| DAY   | OCT    | NOV    | DEC    | JAN    | FEB    | MAR    | APR    | MAY    | JUN    | JUL    | AUG    | SEP   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 1     | 8580   | 5450   | 8260   | 18500  | 15600  | 3510   | 37100  | 5040   | 9060   | 11100  | 2380   | 3130  |
| 2     | 20600  | 2690   | 12400  | 15500  | 10300  | 4290   | 34200  | 3290   | 8600   | 11000  | 2270   | 2810  |
| 3     | 16000  | 2480   | 10500  | 15200  | 11000  | 5510   | 30600  | 3590   | 8490   | 8930   | 3400   | 2810  |
| 4     | 12300  | 4500   | 8090   | 14300  | 10600  | 5290   | 29300  | 5740   | 8950   | 10000  | 2120   | 3820  |
| 5     | 8340   | 4500   | 7060   | 12500  | 10300  | 4480   | 28700  | 6120   | 8770   | 20500  | 2020   | 1880  |
| 6     | 5640   | 4400   | 6050   | 13500  | 10700  | 6560   | 22100  | 6900   | 5160   | 23800  | 2940   | 2060  |
| 7     | 6310   | 7520   | 4630   | 12200  | 10000  | 7670   | 17000  | 6340   | 4690   | 25200  | 3260   | 2120  |
| 8     | 8660   | 9690   | 4670   | 15000  | 6980   | 6300   | 16900  | 7080   | 6320   | 23600  | 2100   | 2620  |
| 9     | 10000  | 6300   | 7670   | 15000  | 6580   | 6650   | 16500  | 4590   | 7260   | 23800  | 2320   | 2540  |
| 10    | 9560   | 4720   | 9150   | 13300  | 8140   | 10300  | 15900  | 3770   | 7170   | 22900  | 3050   | 2530  |
| 11    | 8630   | 5270   | 11200  | 8730   | 8150   | 10900  | 13900  | 5490   | 6630   | 16400  | 2960   | 2430  |
| 12    | 6640   | 5450   | 10200  | 7490   | 6720   | 11900  | 12100  | 5890   | 7290   | 9280   | 3100   | 1500  |
| 13    | 5070   | 10700  | 8330   | 9410   | 6040   | 22800  | 11900  | 6410   | 5340   | 11200  | 3790   | 1780  |
| 14    | 6680   | 12700  | 3570   | 10100  | 5860   | 23300  | 13400  | 5680   | 3000   | 9860   | 3530   | 2970  |
| 15    | 6660   | 12000  | 3420   | 10800  | 4850   | 19800  | 13400  | 9890   | 3790   | 7310   | 2490   | 2550  |
| 16    | 7080   | 8090   | 5810   | 11000  | 4840   | 29300  | 13200  | 13700  | 3650   | 6250   | 2540   | 2930  |
| 17    | 8660   | 4800   | 7670   | 10600  | 4740   | 32300  | 12700  | 14300  | 3650   | 6480   | 3320   | 2500  |
| 18    | 12000  | 7360   | 9140   | 9240   | 5660   | 28600  | 10400  | 19600  | 3590   | 4230   | 3280   | 2380  |
| 19    | 9410   | 7400   | 8860   | 8480   | 8210   | 24400  | 8900   | 19000  | 3810   | 3750   | 2080   | 1880  |
| 20    | 8030   | 7370   | 5370   | 8970   | 9300   | 22200  | 7910   | 13600  | 4400   | 3750   | 2110   | 1760  |
| 21    | 9090   | 8040   | 3670   | 7920   | 8550   | 22600  | 8280   | 11900  | 7170   | 3570   | 2880   | 4220  |
| 22    | 8780   | 8160   | 3510   | 8110   | 7050   | 25000  | 10100  | 11000  | 8680   | 5850   | 1670   | 2730  |
| 23    | 8680   | 4810   | 4200   | 7020   | 7670   | 23300  | 9740   | 6520   | 6150   | 5360   | 3460   | 2840  |
| 24    | 8610   | 4890   | 3820   | 4700   | 7970   | 20700  | 8500   | 5080   | 6490   | 5320   | 4600   | 2450  |
| 25    | 8080   | 8240   | 3580   | 3810   | 6530   | 18000  | 4640   | 7730   | 6010   | 5560   | 5250   | 2770  |
| 26    | 4120   | 8830   | 7240   | 10400  | 5290   | 16600  | 3570   | 7730   | 6410   | 3440   | 6210   | 4280  |
| 27    | 4320   | 7620   | 10300  | 26200  | 4860   | 16700  | 4220   | 7540   | 5510   | 6000   | 5800   | 2310  |
| 28    | 6140   | 4050   | 9230   | 25600  | 4360   | 17400  | 3770   | 7790   | 5920   | 5890   | 5710   | 4140  |
| 29    | 6150   | 4900   | 9160   | 22700  | 3670   | 16000  | 6080   | 9100   | 6000   | 4680   | 5270   | 2870  |
| 30    | 5850   | 4410   | 7000   | 22300  | ---    | 27700  | 5040   | 8370   | 7370   | 4480   | 2720   | 3270  |
| 31    | 5850   | ---    | 10700  | 21700  | ---    | 33600  | ---    | 7710   | ---    | 3900   | 3700   | ---   |
| TOTAL | 260520 | 197340 | 224460 | 400280 | 220520 | 523660 | 430050 | 256490 | 185330 | 313390 | 102330 | 80880 |
| MEAN  | 8404   | 6578   | 7241   | 12910  | 7604   | 16890  | 14340  | 8274   | 6178   | 10110  | 3301   | 2696  |
| MAX   | 20600  | 12700  | 12400  | 26200  | 15600  | 33600  | 37100  | 19600  | 9060   | 25200  | 6210   | 4280  |
| MIN   | 4120   | 2480   | 3420   | 3810   | 3670   | 3510   | 3570   | 3290   | 3000   | 3440   | 1670   | 1500  |

CAL YR 1975 TOTAL 2949480 MEAN 8081 MAX 30700 MIN 1660 MEAN† 8565 CFSM† 2.12 IN† 28.78  
WTR YR 1976 TOTAL 3195250 MEAN 8730 MAX 37100 MIN 1500 MEAN† 8654 CFSM† 2.14 IN† 29.13

† Adjusted for change in contents in Carters and Allatoona Lakes.

02397000 COOSA RIVER NEAR ROME, GA.--Continued

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

| DAY         | OCT        | NOV   | DEC       | JAN   | FEB       | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|------------|-------|-----------|-------|-----------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 12.59      | 13.77 | 14.79     | 18.71 | 17.53     | 12.99 | 29.44 | 13.57 | 14.92 | 15.76 | 12.41 | 12.78 |
| 2           | 19.65      | 12.60 | 16.25     | 17.42 | 15.50     | 13.31 | 27.91 | 12.86 | 14.75 | 15.74 | 12.35 | 12.59 |
| 3           | 17.66      | 12.50 | 15.57     | 17.31 | 15.75     | 13.80 | 25.38 | 12.98 | 14.70 | 15.02 | 12.91 | 12.58 |
| 4           | 16.23      | 13.39 | 14.73     | 16.98 | 15.63     | 13.72 | 24.45 | 13.84 | 14.88 | 15.43 | 12.25 | 13.04 |
| 5           | 14.82      | 13.40 | 14.38     | 16.28 | 15.49     | 13.39 | 23.99 | 13.99 | 14.82 | 19.58 | 12.18 | 12.04 |
| 6           | 13.86      | 13.35 | 14.01     | 16.68 | 15.65     | 14.17 | 20.38 | 14.27 | 13.53 | 21.09 | 12.67 | 12.16 |
| 7           | 14.11      | 14.53 | 13.45     | 16.18 | 15.41     | 14.59 | 18.03 | 14.03 | 13.33 | 21.86 | 12.83 | 12.20 |
| 8           | 14.92      | 15.29 | 13.47     | 17.25 | 14.35     | 14.11 | 18.00 | 14.32 | 13.96 | 21.02 | 12.23 | 12.47 |
| 9           | 15.41      | 14.11 | 14.57     | 17.23 | 14.20     | 14.25 | 17.84 | 13.38 | 14.31 | 21.13 | 12.38 | 12.41 |
| 10          | 15.24      | 13.49 | 15.10     | 16.59 | 14.75     | 15.51 | 17.57 | 13.04 | 14.27 | 20.73 | 12.74 | 12.40 |
| 11          | 14.92      | 13.71 | 15.80     | 14.95 | 14.75     | 15.73 | 16.83 | 13.71 | 14.08 | 17.88 | 12.69 | 12.34 |
| 12          | 14.22      | 13.78 | 15.48     | 14.53 | 14.25     | 16.09 | 16.15 | 13.85 | 14.34 | 15.14 | 12.77 | 11.71 |
| 13          | 13.63      | 15.65 | 14.80     | 15.19 | 14.01     | 20.66 | 16.05 | 14.04 | 13.63 | 15.83 | 13.09 | 11.94 |
| 14          | 14.22      | 16.35 | 13.02     | 15.43 | 13.93     | 20.89 | 16.60 | 13.79 | 12.65 | 15.36 | 12.98 | 12.59 |
| 15          | 14.21      | 16.10 | 12.94     | 15.69 | 13.54     | 19.29 | 16.61 | 15.27 | 12.99 | 14.44 | 12.49 | 12.42 |
| 16          | 14.37      | 14.73 | 13.90     | 15.76 | 13.54     | 24.56 | 16.56 | 16.66 | 12.93 | 14.07 | 12.52 | 12.59 |
| 17          | 14.93      | 13.52 | 14.58     | 15.61 | 13.50     | 26.70 | 16.34 | 16.88 | 12.94 | 14.15 | 12.85 | 12.37 |
| 18          | 16.11      | 14.47 | 15.10     | 15.13 | 13.85     | 23.99 | 15.55 | 19.08 | 12.92 | 13.29 | 12.83 | 12.35 |
| 19          | 15.18      | 14.48 | 15.00     | 14.87 | 14.77     | 21.41 | 15.01 | 18.80 | 13.02 | 13.10 | 12.22 | 11.99 |
| 20          | 14.71      | 14.47 | 13.75     | 15.04 | 15.15     | 20.38 | 14.66 | 16.62 | 13.29 | 13.08 | 12.23 | 11.90 |
| 21          | 15.08      | 14.71 | 13.07     | 14.67 | 14.90     | 20.54 | 14.80 | 15.95 | 14.35 | 13.00 | 12.63 | 13.15 |
| 22          | 14.97      | 14.75 | 13.00     | 14.74 | 14.38     | 21.74 | 15.43 | 15.65 | 14.88 | 13.91 | 11.92 | 12.48 |
| 23          | 14.94      | 13.52 | 13.28     | 14.36 | 14.59     | 20.89 | 15.31 | 14.08 | 13.97 | 13.73 | 12.90 | 12.54 |
| 24          | 14.91      | 13.55 | 13.11     | 13.48 | 14.69     | 19.66 | 14.86 | 13.51 | 14.10 | 13.72 | 13.44 | 12.32 |
| 25          | 14.71      | 14.78 | 13.01     | 13.12 | 14.19     | 18.49 | 13.45 | 14.47 | 13.93 | 13.81 | 13.69 | 12.50 |
| 26          | 13.25      | 14.99 | 14.42     | 15.60 | 13.72     | 17.86 | 13.00 | 14.46 | 14.10 | 12.95 | 14.04 | 13.17 |
| 27          | 13.33      | 14.55 | 15.48     | 22.43 | 13.54     | 17.94 | 13.26 | 14.40 | 13.76 | 13.97 | 13.89 | 12.28 |
| 28          | 14.05      | 13.22 | 15.12     | 22.09 | 13.54     | 18.22 | 13.07 | 14.48 | 13.93 | 13.94 | 13.86 | 13.10 |
| 29          | 14.05      | 13.56 | 15.09     | 20.58 | 13.07     | 17.63 | 13.97 | 14.94 | 13.95 | 13.47 | 13.69 | 12.55 |
| 30          | 13.94      | 13.37 | 14.36     | 20.39 | ---       | 23.62 | 13.58 | 14.68 | 14.46 | 13.38 | 12.58 | 12.75 |
| 31          | 13.94      | ---   | 15.66     | 20.16 | ---       | 27.53 | ---   | 14.45 | ---   | 13.14 | 13.02 | ---   |
| MEAN        | 14.78      | 14.16 | 14.40     | 16.60 | 14.56     | 18.51 | 17.47 | 14.71 | 13.92 | 15.57 | 12.82 | 12.46 |
| MAX         | 19.65      | 16.35 | 16.25     | 22.43 | 17.53     | 27.53 | 29.44 | 19.08 | 14.92 | 21.86 | 14.04 | 13.17 |
| MIN         | 12.59      | 12.50 | 12.94     | 13.12 | 13.07     | 12.99 | 13.00 | 12.86 | 12.65 | 12.95 | 11.92 | 11.71 |
| WTR YR 1976 | MEAN 15.00 |       | MAX 29.44 |       | MIN 11.71 |       |       |       |       |       |       |       |

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 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.<br>16... | 1000 | 8450                                          | 7.3           | 19.5                        | 7.8                                |
| DEC.<br>01... | 1445 | 8180                                          | 7.4           | 11.0                        | 6.1                                |
| JAN.<br>07... | 1155 | 12400                                         | 6.9           | 6.0                         | 11.6                               |
| FEB.<br>19... | 0925 | 7580                                          | 7.4           | 12.0                        | 9.4                                |
| MAR.<br>17... | 0900 | 32800                                         | 7.1           | 8.5                         | 9.2                                |
| APR.<br>12... | 1100 | 12100                                         | 7.1           | 12.5                        | 9.3                                |
| MAY<br>10...  | 1315 | 3620                                          | 7.2           | 17.5                        | 7.5                                |
| JUNE<br>16... | 0825 | 5200                                          | 7.5           | 22.5                        | 7.0                                |
| JULY<br>21... | 1050 | 4620                                          | 7.5           | 22.5                        | 7.1                                |
| AUG.<br>25... | 1000 | 6650                                          | 7.5           | 24.5                        | 6.4                                |
| SEP.<br>28... | 1240 | 3900                                          | 7.3           | 22.5                        | 6.8                                |

| DATE          | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) |
|---------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|
| OCT.<br>16... | 31                                       | .22                                                  | .03                                                | .11                                       | 32                                  |
| DEC.<br>01... | 41                                       | .02                                                  | .03                                                | .17                                       | 45                                  |
| JAN.<br>07... | 26                                       | .25                                                  | <.02                                               | .07                                       | 28                                  |
| FEB.<br>19... | 44                                       | .31                                                  | .04                                                | .14                                       | 49                                  |
| MAR.<br>17... | 20                                       | .16                                                  | .08                                                | .18                                       | 24                                  |
| APR.<br>12... | 26                                       | .25                                                  | .03                                                | .06                                       | 26                                  |
| MAY<br>10...  | 48                                       | .33                                                  | .06                                                | .13                                       | 56                                  |
| JUNE<br>16... | 45                                       | .33                                                  | .07                                                | .14                                       | 47                                  |
| JULY<br>21... | 48                                       | .37                                                  | <.02                                               | .12                                       | 50                                  |
| AUG.<br>25... | 41                                       | .29                                                  | .03                                                | .12                                       | 40                                  |
| SEP.<br>28... | 22                                       | .12                                                  | .06                                                | .07                                       | 24                                  |

## MOBILE RIVER BASIN

02397000 COOSA RIVER NEAR ROME, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>16... | 77                                                         | 15                                           | 22                           | .7                                                           | 930                                              | 4.0                                         |
| DEC.<br>01... | 105                                                        | 50                                           | 46                           | 1.8                                                          | 7500                                             | 6.0                                         |
| JAN.<br>07... | 72                                                         | 15                                           | 16                           | .5                                                           | 110                                              | 3.0                                         |
| FEB.<br>19... | 117                                                        | 40                                           | 56                           | 1.9                                                          | 9300                                             | 5.0                                         |
| MAR.<br>17... | 58                                                         | 80                                           | 124                          | 1.4                                                          | 43000                                            | 8.0                                         |
| APR.<br>12... | 68                                                         | 40                                           | 28                           | .7                                                           | 430                                              | 3.0                                         |
| MAY<br>10...  | 121                                                        | 80                                           | 48                           | .8                                                           | 930                                              | 9.0                                         |
| JUNE<br>16... | 115                                                        | 10                                           | 11                           | 1.7                                                          | 36                                               | 2.0                                         |
| JULY<br>21... | 123                                                        | 10                                           | 15                           | .6                                                           | 2300                                             | 7.0                                         |
| AUG.<br>25... | 100                                                        | <5                                           | 17                           | 1.0                                                          | 930                                              | 3.0                                         |
| SEP.<br>28... | 64                                                         | 15                                           | 12                           | .8                                                           | 2300                                             | 1.0                                         |



02397500 CEDAR CREEK NEAR CEDARTOWN, GA.

LOCATION.--Lat 34°03'38", long 85°18'41", Polk County, 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 mi<sup>2</sup> (282 km<sup>2</sup>).

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, 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 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.<br>16... | 1200 | 193                                           | 7.7           | 18.5                        | 8.4                                |
| DEC.<br>01... | 1555 | 281                                           | 7.6           | 12.0                        | 9.5                                |
| JAN.<br>07... | 1050 | 231                                           | 7.3           | 8.0                         | 10.8                               |
| FEB.<br>19... | 1015 | 179                                           | 7.3           | 13.0                        | 8.8                                |
| MAR.<br>17... | 1000 | 3420                                          | 7.2           | 5.0                         | 10.2                               |
| MAY<br>10...  | 1410 | 235                                           | 7.6           | 17.0                        | 7.9                                |
| JUNE<br>16... | 1240 | 73                                            | 7.9           | 21.0                        | 6.7                                |
| JULY<br>20... | 1345 | 66                                            | 8.0           | 22.0                        | --                                 |
| AUG.<br>25... | 1100 | 56                                            | 7.6           | 21.0                        | 3.6                                |
| SEP.<br>28... | 1145 | 43                                            | 7.5           | 20.0                        | 3.9                                |

| DATE          | ALKA-<br>LINITY<br>AS<br>CaCO <sub>3</sub><br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) |
|---------------|------------------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| OCT.<br>16... | 92                                                   | .46                                                  | .14                                                | .15                                       | 98                                 |
| DEC.<br>01... | 49                                                   | .25                                                  | .02                                                | .18                                       | 53                                 |
| JAN.<br>07... | 65                                                   | .37                                                  | <.02                                               | .08                                       | 67                                 |
| FEB.<br>19... | 80                                                   | .33                                                  | <.02                                               | .11                                       | 88                                 |
| MAR.<br>17... | 30                                                   | .24                                                  | .07                                                | .08                                       | 32                                 |
| MAY<br>10...  | 102                                                  | .43                                                  | .07                                                | .12                                       | 106                                |
| JUNE<br>16... | 121                                                  | .31                                                  | <.02                                               | .18                                       | 123                                |
| JULY<br>20... | 120                                                  | .65                                                  | <.02                                               | .21                                       | 124                                |
| AUG.<br>25... | 134                                                  | .08                                                  | .03                                                | .25                                       | 134                                |
| SEP.<br>28... | 130                                                  | .07                                                  | .05                                                | .26                                       | 138                                |

## MOBILE RIVER BASIN

02397500 CEDAR CREEK NEAR CEDARTOWN, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>16... | 216                                                        | <5                                           | 5                            | .8                                                           | 9300                                             | 23                                          |
| DEC.<br>01... | 124                                                        | 80                                           | 56                           | 2.7                                                          | 9300                                             | 7.0                                         |
| JAN.<br>07... | 160                                                        | 10                                           | 12                           | 1.5                                                          | 4300                                             | 3.0                                         |
| FEB.<br>19... | 211                                                        | 30                                           | 16                           | 2.2                                                          | 23000                                            | 4.0                                         |
| MAR.<br>17... | 76                                                         | 50                                           | 39                           | 1.4                                                          | 9300                                             | 4.0                                         |
| MAY<br>10...  | 238                                                        | 15                                           | 5                            | .6                                                           | 930                                              | 9.0                                         |
| JUNE<br>16... | 351                                                        | 10                                           | 3                            | 1.9                                                          | 2300                                             | 6.0                                         |
| JULY<br>20... | 250                                                        | <5                                           | 5                            | .6                                                           | 930                                              | 3.0                                         |
| AUG.<br>25... | 352                                                        | <5                                           | 2                            | 1.1                                                          | 430                                              | 4.0                                         |
| SEP.<br>28... | 350                                                        | 10                                           | 1                            | .7                                                           | 430                                              | 3.0                                         |

02397530 COOSA RIVER NEAR COOSA, GA.

LOCATION.--Lat 34°11'54", long 85°26'46", Floyd County (Ga.)-Cherokee County (Ala.), Ga.-Ala. State line, 6.5 mi (10.5 km) southwest of Coosa, and at mile 254.8 (410.0 km).

DRAINAGE AREA.--4,360 mi<sup>2</sup> (11,300 km<sup>2</sup>), approximately.

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

REMARKS.--Flow regulated by Allatoona Lake and by Carters Lake and re-regulation dam (see stations 02381400, 02382400, and 02393500). 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 1975 TO SEPTEMBER 1976

| DATE  | TIME | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |               |                             |                                    |
| 16... | 1105 | 7.5           | 20.5                        | 7.4                                |
| DEC.  |      |               |                             |                                    |
| 01... | 1315 | 7.5           | 11.5                        | 10.2                               |
| JAN.  |      |               |                             |                                    |
| 07... | 0920 | 7.0           | 7.0                         | 11.6                               |
| FEB.  |      |               |                             |                                    |
| 19... | 1120 | 7.2           | 14.0                        | 9.0                                |
| MAR.  |      |               |                             |                                    |
| 16... | 1435 | 7.0           | 9.0                         | 9.1                                |
| APR.  |      |               |                             |                                    |
| 12... | 1415 | 7.2           | 13.0                        | 9.0                                |
| MAY   |      |               |                             |                                    |
| 12... | 1310 | 7.8           | 19.0                        | 7.2                                |
| JUNE  |      |               |                             |                                    |
| 16... | 1145 | 7.6           | 24.0                        | 6.1                                |
| JULY  |      |               |                             |                                    |
| 20... | 1240 | 7.6           | 25.0                        | 6.2                                |
| AUG.  |      |               |                             |                                    |
| 24... | 1320 | 7.5           | 27.5                        | 5.1                                |
| SEP.  |      |               |                             |                                    |
| 29... | 0850 | 7.4           | 24.0                        | 5.9                                |

| DATE  | TOTAL<br>IRON<br>(FE)<br>(UG/L) | TOTAL<br>MAN-<br>GANESE<br>(MN)<br>(UG/L) | TOTAL<br>CAL-<br>CIUM<br>(CA)<br>(MG/L) | TOTAL<br>MAG-<br>NE-<br>SIUM<br>(MG)<br>(MG/L) | TOTAL<br>SODIUM<br>(NA)<br>(MG/L) | TOTAL<br>PO-<br>TAS-<br>SIUM<br>(K)<br>(MG/L) | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | DIS-<br>SOLVED<br>SULFATE<br>(SO4)<br>(MG/L) | DIS-<br>SOLVED<br>CHLO-<br>RIDE<br>(CL)<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) |
|-------|---------------------------------|-------------------------------------------|-----------------------------------------|------------------------------------------------|-----------------------------------|-----------------------------------------------|------------------------------------------|----------------------------------------------|---------------------------------------------------|------------------------------------------------------|
| OCT.  |                                 |                                           |                                         |                                                |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 16... | 740                             | 80                                        | 11                                      | --                                             | 4.6                               | 1.6                                           | 41                                       | 8.0                                          | 3.0                                               | .25                                                  |
| DEC.  |                                 |                                           |                                         |                                                |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 01... | 910                             | 80                                        | 16                                      | 4.1                                            | 5.2                               | 1.3                                           | 55                                       | 10                                           | 4.0                                               | .23                                                  |
| JAN.  |                                 |                                           |                                         |                                                |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 07... | 900                             | 80                                        | 11                                      | 2.5                                            | 2.8                               | 1.8                                           | 32                                       | 7.0                                          | 3.0                                               | .30                                                  |
| FEB.  |                                 |                                           |                                         |                                                |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 19... | 1400                            | 70                                        | 16                                      | 3.9                                            | 4.8                               | 1.2                                           | 48                                       | 9.9                                          | 3.7                                               | .30                                                  |
| MAR.  |                                 |                                           |                                         |                                                |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 16... | 3000                            | 320                                       | 9.6                                     | 2.4                                            | 2.0                               | 1.2                                           | 27                                       | 6.0                                          | 3.8                                               | .21                                                  |
| APR.  |                                 |                                           |                                         |                                                |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 12... | 790                             | 90                                        | 9.0                                     | 2.5                                            | 2.8                               | 1.1                                           | 28                                       | 5.0                                          | 2.5                                               | .25                                                  |
| MAY   |                                 |                                           |                                         |                                                |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 12... | --                              | --                                        | --                                      | --                                             | --                                | --                                            | 58                                       | 8.0                                          | 3.0                                               | .34                                                  |
| JUNE  |                                 |                                           |                                         |                                                |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 16... | 580                             | 100                                       | 11                                      | 3.4                                            | 5.8                               | 1.2                                           | 41                                       | 7.0                                          | 3.0                                               | .23                                                  |
| JULY  |                                 |                                           |                                         |                                                |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 20... | 520                             | 100                                       | 12                                      | 3.3                                            | 4.5                               | 1.3                                           | 39                                       | --                                           | 3.0                                               | .28                                                  |
| AUG.  |                                 |                                           |                                         |                                                |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 24... | 550                             | 90                                        | 14                                      | 4.4                                            | 7.9                               | 1.5                                           | 51                                       | 12                                           | 5.8                                               | .31                                                  |
| SEP.  |                                 |                                           |                                         |                                                |                                   |                                               |                                          |                                              |                                                   |                                                      |
| 29... | 470                             | 60                                        | 9.1                                     | 3.0                                            | 6.7                               | 1.5                                           | 35                                       | --                                           | 5.0                                               | .15                                                  |

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | TOTAL<br>NON-<br>FILT-<br>RABLE<br>RESIDUE<br>(MG/L) | TOTAL<br>RESI-<br>DUE<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|----------------------------------------------------|-------------------------------------------|------------------------------------------------------|---------------------------------|-------------------------------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>16... | .06                                                | .10                                       | 13                                                   | 118                             | 40                                  | 105                                                        | 20                                           | 17                           | .8                                                           | 2300                                             | 7.0                                         |
| DEC.<br>01... | <.02                                               | .12                                       | 20                                                   | 126                             | 56                                  | 141                                                        | 15                                           | 19                           | .6                                                           | 1500                                             | 3.0                                         |
| JAN.<br>07... | .33                                                | .11                                       | 16                                                   | 97                              | 49                                  | 88                                                         | 30                                           | 21                           | .4                                                           | 15000                                            | 18                                          |
| FEB.<br>19... | .04                                                | .13                                       | 32                                                   | --                              | 52                                  | 129                                                        | 40                                           | 35                           | 1.2                                                          | 2300                                             | 3.0                                         |
| MAR.<br>16... | .06                                                | .22                                       | 163                                                  | 250                             | 32                                  | 74                                                         | 100                                          | 108                          | 1.5                                                          | 4300                                             | 8.0                                         |
| APR.<br>12... | .03                                                | .06                                       | 12                                                   | 84                              | 30                                  | 76                                                         | 45                                           | 23                           | .8                                                           | 930                                              | 3.0                                         |
| MAY<br>12...  | .06                                                | .10                                       | 15                                                   | 180                             | 64                                  | 147                                                        | 20                                           | 17                           | .9                                                           | --                                               | 3.0                                         |
| JUNE<br>16... | .11                                                | .10                                       | --                                                   | --                              | 40                                  | 108                                                        | 10                                           | 12                           | .9                                                           | 150000                                           | 3.0                                         |
| JULY<br>20... | .05                                                | .09                                       | 10                                                   | 109                             | 40                                  | 106                                                        | 15                                           | 15                           | .9                                                           | 91                                               | 3.0                                         |
| AUG.<br>24... | .08                                                | .17                                       | 13                                                   | 130                             | 48                                  | 136                                                        | 10                                           | 10                           | 1.3                                                          | 430                                              | 4.0                                         |
| SEP.<br>29... | .11                                                | .16                                       | 22                                                   | 126                             | 35                                  | 106                                                        | 10                                           | 9                            | .7                                                           | 750                                              | 3.0                                         |

02397845 SPRING CREEK NEAR TRION, GA.

LOCATION.--Lat 34°35'04", long 85°21'55", Chattooga County, at bridge on State Highway 337, 1.0 mi (1.6 km) upstream from Chattooga River confluence, 4.0 mi (6.4 km) northwest of Trion.

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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

| DATE         | TIME | INSTANTANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|--------------|------|------------------------------------------|---------------|-----------------------------|------------------------------------|
| JUL<br>22... | 0915 | 9.0                                      | 7.9           | 19.0                        | --                                 |
| SEP<br>03... | 1200 | 7.2                                      | 7.3           | 20.5                        | 7.7                                |
| 11...        | 1315 | 7.8                                      | 7.8           | 19.0                        | 8.2                                |

| DATE         | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) |
|--------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| JUL<br>22... | 92                                       | .41                                                  | .02                                                | <.02                                      | 98                                 |
| SEP<br>11... | 87                                       | .32                                                  | .13                                                | .05                                       | 92                                 |

| DATE         | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|--------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| JUL<br>22... | 190                                                        | <5                                           | 4                            | .5                                                           | 1500                                             | 23                                          |
| SEP<br>11... | 180                                                        | 20                                           | 9                            | .9                                                           | 23000                                            | 10                                          |

## MOBILE RIVER BASIN

02397845 SPRING CREEK NEAR TRION, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                               |               |                             |                                    |
| 15... | 1045 | 36                                            | 7.6           | 16.5                        | 9.1                                |
| NOV.  |      |                                               |               |                             |                                    |
| 25... | 1345 | 34                                            | 7.7           | 11.0                        | 10.6                               |
| JAN.  |      |                                               |               |                             |                                    |
| 06... | 1100 | 96                                            | 7.3           | 7.0                         | 11.8                               |
| FEB.  |      |                                               |               |                             |                                    |
| 18... | 1145 | 39                                            | 7.8           | 12.5                        | 8.8                                |
| MAR.  |      |                                               |               |                             |                                    |
| 16... | 1115 | 160                                           | 7.5           | 10.0                        | 10.6                               |
| MAY   |      |                                               |               |                             |                                    |
| 12... | 1030 | 12                                            | 7.9           | 14.5                        | 9.1                                |
| JUNE  |      |                                               |               |                             |                                    |
| 15... | 1630 | 9.0                                           | 7.9           | 23.5                        | 8.1                                |
| AUG.  |      |                                               |               |                             |                                    |
| 24... | 1000 | 7.6                                           | 7.9           | 17.0                        | 7.5                                |
| SEP.  |      |                                               |               |                             |                                    |
| 29... | 1050 | 4.6                                           | 7.9           | 16.5                        | 7.3                                |

| DATE  | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) |
|-------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|
| OCT.  |                                          |                                                      |                                                    |                                           |                                     |
| 15... | 57                                       | .32                                                  | .08                                                | .03                                       | 58                                  |
| NOV.  |                                          |                                                      |                                                    |                                           |                                     |
| 25... | 44                                       | .19                                                  | .06                                                | <.02                                      | 47                                  |
| JAN.  |                                          |                                                      |                                                    |                                           |                                     |
| 06... | 32                                       | .28                                                  | <.02                                               | <.02                                      | 36                                  |
| FEB.  |                                          |                                                      |                                                    |                                           |                                     |
| 18... | 53                                       | .40                                                  | .02                                                | .06                                       | 60                                  |
| MAR.  |                                          |                                                      |                                                    |                                           |                                     |
| 16... | 28                                       | .20                                                  | .05                                                | .03                                       | 30                                  |
| MAY   |                                          |                                                      |                                                    |                                           |                                     |
| 12... | 65                                       | .30                                                  | <.02                                               | <.02                                      | 70                                  |
| JUNE  |                                          |                                                      |                                                    |                                           |                                     |
| 15... | 77                                       | .44                                                  | .03                                                | <.02                                      | 80                                  |
| AUG.  |                                          |                                                      |                                                    |                                           |                                     |
| 24... | 94                                       | .59                                                  | <.02                                               | .05                                       | 96                                  |
| SEP.  |                                          |                                                      |                                                    |                                           |                                     |
| 29... | 112                                      | .56                                                  | .04                                                | <.02                                      | 114                                 |

| DATE  | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>RID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|-------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 15... | 120                                                        | <5                                           | 4                            | .4                                                           | 1500                                             | 12                                          |
| NOV.  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 25... | 98                                                         | <5                                           | 2                            | .2                                                           | 36                                               | 5.0                                         |
| JAN.  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 06... | 79                                                         | 5                                            | 6                            | .3                                                           | <30                                              | 3.0                                         |
| FEB.  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 18... | 207                                                        | 15                                           | 24                           | 1.0                                                          | 23000                                            | 3.0                                         |
| MAR.  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 16... | 68                                                         | 10                                           | 13                           | .3                                                           | 430                                              | 2.0                                         |
| MAY   |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 12... | 143                                                        | 5                                            | 5                            | .2                                                           | 430                                              | <1.0                                        |
| JUNE  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 15... | 157                                                        | <5                                           | 4                            | .5                                                           | 930                                              | 1.0                                         |
| AUG.  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 24... | 191                                                        | <5                                           | 17                           | .9                                                           | 4300                                             | 5.0                                         |
| SEP.  |                                                            |                                              |                              |                                                              |                                                  |                                             |
| 29... | 224                                                        | <5                                           | 2                            | .5                                                           | 1500                                             | <1.0                                        |

## 02398000 CHATTOOGA RIVER AT SUMMERVILLE, GA.

LOCATION.--Lat 34°28'03", long 85°20'19", Chattooga County, 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 mi<sup>2</sup> (500 km<sup>2</sup>).

## 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 except those for period of no gage-height record, which are fair.

AVERAGE DISCHARGE.--39 years, 354 ft<sup>3</sup>/s (10.0 m<sup>3</sup>/s), 24.91 in/yr (632.7 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,500 ft<sup>3</sup>/s (694 m<sup>3</sup>/s) Mar. 29, 1951, gage height, 21.0 ft (6.40 m); minimum daily, 38 ft<sup>3</sup>/s (1.08 m<sup>3</sup>/s) Oct. 17, 1937, Nov. 9, 1939.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft<sup>3</sup>/s (85.0 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time    | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|---------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Dec. 31 | 2200    | 3430 97.1                                             | 12.71 3.874             | July 5 | 1100 | *6300 178                                             | 15.20 4.633             |
| Jan. 26 | unknown | 4510 128                                              | 14.10 4.298             |        |      |                                                       |                         |

Minimum discharge, 94 ft<sup>3</sup>/s (2.66 m<sup>3</sup>/s) Sept. 26, gage height, 2.05 ft (0.625 m).

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

| DAY   | OCT   | NOV  | DEC   | JAN   | FEB  | MAR   | APR  | MAY   | JUN  | JUL   | AUG  | SEP  |
|-------|-------|------|-------|-------|------|-------|------|-------|------|-------|------|------|
| 1     | 477   | 171  | 610   | 2040  | 516  | 231   | 1030 | 243   | 181  | 1340  | 168  | 125  |
| 2     | 516   | 162  | 454   | 1020  | 452  | 222   | 810  | 216   | 179  | 625   | 158  | 139  |
| 3     | 348   | 157  | 385   | 1210  | 401  | 212   | 667  | 185   | 183  | 448   | 148  | 129  |
| 4     | 288   | 153  | 336   | 1060  | 369  | 207   | 573  | 172   | 172  | 2720  | 144  | 123  |
| 5     | 254   | 145  | 301   | 780   | 344  | 215   | 495  | 169   | 166  | 5300  | 141  | 118  |
| 6     | 241   | 144  | 275   | 651   | 346  | 450   | 437  | 165   | 158  | 1830  | 149  | 119  |
| 7     | 299   | 188  | 259   | 635   | 321  | 360   | 396  | 668   | 155  | 1070  | 151  | 115  |
| 8     | 1430  | 183  | 243   | 700   | 298  | 315   | 362  | 347   | 152  | 749   | 146  | 113  |
| 9     | 1320  | 153  | 254   | 550   | 285  | 1540  | 332  | 247   | 148  | 555   | 143  | 113  |
| 10    | 726   | 148  | 272   | 450   | 268  | 1320  | 311  | 207   | 144  | 446   | 131  | 109  |
| 11    | 533   | 142  | 232   | 430   | 258  | 794   | 295  | 219   | 142  | 375   | 130  | 106  |
| 12    | 422   | 787  | 216   | 450   | 245  | 980   | 304  | 202   | 136  | 328   | 126  | 104  |
| 13    | 360   | 793  | 205   | 500   | 236  | 2520  | 282  | 185   | 134  | 289   | 124  | 106  |
| 14    | 313   | 485  | 195   | 700   | 231  | 1140  | 270  | 233   | 131  | 257   | 120  | 105  |
| 15    | 277   | 377  | 192   | 600   | 221  | 877   | 257  | 1740  | 128  | 242   | 127  | 105  |
| 16    | 253   | 321  | 271   | 500   | 214  | 1100  | 242  | 832   | 126  | 226   | 136  | 102  |
| 17    | 1190  | 280  | 254   | 420   | 211  | 842   | 235  | 527   | 124  | 223   | 138  | 101  |
| 18    | 1300  | 251  | 230   | 360   | 431  | 684   | 223  | 406   | 122  | 206   | 126  | 100  |
| 19    | 677   | 234  | 211   | 330   | 689  | 590   | 214  | 341   | 245  | 194   | 124  | 101  |
| 20    | 508   | 245  | 205   | 310   | 418  | 527   | 210  | 284   | 732  | 184   | 120  | 105  |
| 21    | 408   | 314  | 203   | 300   | 371  | 1740  | 207  | 253   | 390  | 181   | 118  | 107  |
| 22    | 350   | 252  | 193   | 280   | 385  | 1120  | 199  | 230   | 343  | 174   | 117  | 106  |
| 23    | 309   | 239  | 185   | 290   | 337  | 798   | 190  | 218   | 262  | 176   | 116  | 101  |
| 24    | 276   | 242  | 179   | 300   | 309  | 651   | 186  | 277   | 221  | 164   | 114  | 100  |
| 25    | 250   | 229  | 340   | 1000  | 294  | 570   | 207  | 223   | 195  | 156   | 116  | 98   |
| 26    | 235   | 215  | 1800  | 3500  | 284  | 501   | 191  | 201   | 197  | 152   | 114  | 99   |
| 27    | 224   | 265  | 901   | 1800  | 268  | 548   | 181  | 194   | 520  | 152   | 153  | 105  |
| 28    | 209   | 254  | 652   | 1160  | 254  | 484   | 176  | 212   | 561  | 423   | 131  | 104  |
| 29    | 196   | 233  | 519   | 881   | 242  | 466   | 173  | 229   | 774  | 284   | 136  | 109  |
| 30    | 193   | 259  | 494   | 709   | ---  | 1910  | 172  | 215   | 1690 | 230   | 143  | 109  |
| 31    | 180   | ---  | 2260  | 590   | ---  | 1320  | ---  | 198   | ---  | 184   | 124  | ---  |
| TOTAL | 14562 | 8021 | 13326 | 24506 | 9498 | 25234 | 9827 | 10038 | 8811 | 19883 | 4132 | 3276 |
| MEAN  | 470   | 267  | 430   | 791   | 328  | 814   | 328  | 324   | 294  | 641   | 133  | 109  |
| MAX   | 1430  | 793  | 2260  | 3500  | 689  | 2520  | 1030 | 1740  | 1690 | 5300  | 168  | 139  |
| MIN   | 180   | 142  | 179   | 280   | 211  | 207   | 172  | 165   | 122  | 152   | 114  | 98   |
| CFSM  | 2.44  | 1.38 | 2.23  | 4.10  | 1.70 | 4.22  | 1.70 | 1.68  | 1.52 | 3.32  | .69  | .56  |
| IN.   | 2.81  | 1.55 | 2.57  | 4.72  | 1.83 | 4.86  | 1.89 | 1.93  | 1.70 | 3.83  | .80  | .63  |

CAL YR 1975 TOTAL 168723 MEAN 462 MAX 5770 MIN 75 CFSM 2.39 IN 32.52  
WTR YR 1976 TOTAL 151114 MEAN 413 MAX 5300 MIN 98 CFSM 2.14 IN 29.13

NOTE: No gage-height record Jan. 8-27.



## 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                               |               |                             |                                    |
| 15... | 1315 | 272                                           | 8.2           | 17.5                        | 8.7                                |
| NOV.  |      |                                               |               |                             |                                    |
| 25... | 1445 | 226                                           | 8.6           | 9.5                         | 10.5                               |
| JAN.  |      |                                               |               |                             |                                    |
| 06... | 1225 | 642                                           | 7.8           | 7.0                         | 11.1                               |
| FEB.  |      |                                               |               |                             |                                    |
| 18... | 1315 | 428                                           | 8.8           | 14.0                        | 8.2                                |
| MAR.  |      |                                               |               |                             |                                    |
| 16... | 1220 | 1150                                          | 8.1           | 9.5                         | 10.0                               |
| MAY   |      |                                               |               |                             |                                    |
| 12... | 1135 | 200                                           | 9.1           | 17.0                        | 7.1                                |
| JUNE  |      |                                               |               |                             |                                    |
| 15... | 1720 | 129                                           | 8.5           | 22.0                        | 5.6                                |
| JULY  |      |                                               |               |                             |                                    |
| 20... | 1045 | 185                                           | 8.8           | 20.0                        | 6.6                                |
| AUG.  |      |                                               |               |                             |                                    |
| 24... | 1110 | 114                                           | 8.4           | 22.0                        | 6.9                                |
| SEP.  |      |                                               |               |                             |                                    |
| 29... | 1155 | 108                                           | 8.1           | 19.0                        | 6.0                                |

| DATE  | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) |
|-------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|
| OCT.  |                                          |                                                      |                                                    |                                           |                                     |
| 15... | 119                                      | .41                                                  | <.02                                               | .10                                       | 96                                  |
| NOV.  |                                          |                                                      |                                                    |                                           |                                     |
| 25... | 130                                      | .30                                                  | 1.0                                                | .26                                       | 98                                  |
| JAN.  |                                          |                                                      |                                                    |                                           |                                     |
| 06... | 73                                       | .40                                                  | <.02                                               | .04                                       | 70                                  |
| FEB.  |                                          |                                                      |                                                    |                                           |                                     |
| 18... | 120                                      | .34                                                  | .04                                                | .28                                       | 84                                  |
| MAR.  |                                          |                                                      |                                                    |                                           |                                     |
| 16... | 64                                       | .27                                                  | .03                                                | .12                                       | 60                                  |
| MAY   |                                          |                                                      |                                                    |                                           |                                     |
| 12... | 145                                      | .44                                                  | .15                                                | .19                                       | 99                                  |
| JUNE  |                                          |                                                      |                                                    |                                           |                                     |
| 15... | 178                                      | 1.0                                                  | <.02                                               | .43                                       | 112                                 |
| JULY  |                                          |                                                      |                                                    |                                           |                                     |
| 20... | 150                                      | .76                                                  | <.02                                               | .23                                       | 106                                 |
| AUG.  |                                          |                                                      |                                                    |                                           |                                     |
| 24... | 169                                      | .60                                                  | <.02                                               | .37                                       | 111                                 |
| SEP.  |                                          |                                                      |                                                    |                                           |                                     |
| 29... | 186                                      | .80                                                  | .07                                                | .56                                       | 117                                 |

02398000 CHATTOOGA RIVER AT SUMMERVILLE, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>IDY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>15... | 269                                                        | <5                                           | 5                            | 1.0                                                          | 930                                              | 4.0                                         |
| NOV.<br>25... | 309                                                        | 8                                            | 5                            | 2.4                                                          | 430                                              | 27                                          |
| JAN.<br>06... | 172                                                        | <5                                           | 11                           | .9                                                           | 150                                              | 4.0                                         |
| FEB.<br>18... | 274                                                        | 30                                           | 52                           | 3.3                                                          | 2300                                             | 8.0                                         |
| MAR.<br>16... | 152                                                        | 20                                           | 26                           | 2.0                                                          | 2100                                             | 4.0                                         |
| MAY<br>12...  | 345                                                        | 10                                           | 9                            | 2.4                                                          | 150                                              | 5.0                                         |
| JUNE<br>15... | 466                                                        | 5                                            | 5                            | 2.2                                                          | 91                                               | 8.0                                         |
| JULY<br>20... | 372                                                        | 20                                           | 6                            | 1.0                                                          | 3900                                             | 5.0                                         |
| AUG.<br>24... | 444                                                        | <5                                           | 2                            | .9                                                           | 230                                              | 4.0                                         |
| SEP.<br>29... | 543                                                        | 8                                            | 2                            | .7                                                           | 430                                              | 4.0                                         |

## MOBILE RIVER BASIN

02398037 CHATTOOGA RIVER AT CHATTOOGAVILLE, GA.

LOCATION.--Lat 34°20'08", long 85°26'43", Chattooga County, 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                               |               |                             |                                    |
| 15... | 1410 | 368                                           | 7.8           | 18.5                        | 8.2                                |
| NOV.  |      |                                               |               |                             |                                    |
| 25... | 1550 | 304                                           | 8.1           | 9.0                         | 9.8                                |
| JAN.  |      |                                               |               |                             |                                    |
| 06... | 1400 | 864                                           | 7.7           | 7.0                         | 11.7                               |
| FEB.  |      |                                               |               |                             |                                    |
| 18... | 1430 | 626                                           | 7.5           | 14.5                        | 8.0                                |
| MAR.  |      |                                               |               |                             |                                    |
| 16... | 1335 | 3290                                          | 7.5           | 9.5                         | 8.7                                |
| APR.  |      |                                               |               |                             |                                    |
| 12... | 1500 | 342                                           | 8.4           | 15.0                        | 8.3                                |
| MAY   |      |                                               |               |                             |                                    |
| 12... | 1225 | 253                                           | 8.5           | 18.0                        | 6.7                                |
| JUNE  |      |                                               |               |                             |                                    |
| 15... | 1800 | 176                                           | 8.9           | 22.0                        | 6.8                                |
| JULY  |      |                                               |               |                             |                                    |
| 20... | 1140 | 242                                           | 7.8           | 21.0                        | 7.5                                |
| AUG.  |      |                                               |               |                             |                                    |
| 24... | 1215 | 165                                           | 8.0           | 22.5                        | 6.9                                |
| SEP.  |      |                                               |               |                             |                                    |
| 29... | 0940 | 159                                           | 7.8           | 19.0                        | 5.5                                |

| DATE  | ALKA-<br>LITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA+MG)<br>(MG/L) |
|-------|----------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| OCT.  |                                        |                                                      |                                                    |                                           |                                    |
| 15... | 107                                    | .43                                                  | .08                                                | .19                                       | 96                                 |
| NOV.  |                                        |                                                      |                                                    |                                           |                                    |
| 25... | 117                                    | .31                                                  | .70                                                | .22                                       | 101                                |
| JAN.  |                                        |                                                      |                                                    |                                           |                                    |
| 06... | 72                                     | .42                                                  | <.02                                               | .06                                       | 70                                 |
| FEB.  |                                        |                                                      |                                                    |                                           |                                    |
| 18... | 105                                    | .36                                                  | .06                                                | .27                                       | 91                                 |
| MAR.  |                                        |                                                      |                                                    |                                           |                                    |
| 16... | 51                                     | .21                                                  | .06                                                | .15                                       | 50                                 |
| APR.  |                                        |                                                      |                                                    |                                           |                                    |
| 12... | 118                                    | .38                                                  | .10                                                | .13                                       | 98                                 |
| MAY   |                                        |                                                      |                                                    |                                           |                                    |
| 12... | 129                                    | .56                                                  | .09                                                | .25                                       | 98                                 |
| JUNE  |                                        |                                                      |                                                    |                                           |                                    |
| 15... | 133                                    | .56                                                  | .02                                                | .29                                       | 108                                |
| JULY  |                                        |                                                      |                                                    |                                           |                                    |
| 20... | 112                                    | .75                                                  | <.02                                               | .16                                       | 111                                |
| AUG.  |                                        |                                                      |                                                    |                                           |                                    |
| 24... | 139                                    | .47                                                  | <.02                                               | .23                                       | 117                                |
| SEP.  |                                        |                                                      |                                                    |                                           |                                    |
| 29... | 145                                    | .54                                                  | .04                                                | .40                                       | 118                                |

02398037 CHATTOOGA RIVER AT CHATTOOGAVILLE, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>IDY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>15... | 252                                                        | 8                                            | 8                            | 1.0                                                          | 930                                              | 8.0                                         |
| NOV.<br>25... | 271                                                        | 8                                            | 4                            | 1.0                                                          | 91                                               | 16                                          |
| JAN.<br>06... | 176                                                        | <5                                           | 10                           | .9                                                           | 750                                              | 4.0                                         |
| FEB.<br>18... | 255                                                        | 40                                           | 54                           | 1.8                                                          | 23000                                            | 7.0                                         |
| MAR.<br>16... | 128                                                        | 30                                           | 42                           | 2.1                                                          | 7500                                             | 7.0                                         |
| APR.<br>12... | 292                                                        | 10                                           | 7                            | 1.7                                                          | 91                                               | 5.0                                         |
| MAY<br>12...  | 303                                                        | 10                                           | 13                           | 1.6                                                          | 430                                              | 4.0                                         |
| JUNE<br>15... | 297                                                        | 5                                            | 5                            | 1.0                                                          | 230                                              | 4.0                                         |
| JULY<br>20... | 268                                                        | <5                                           | 8                            | .7                                                           | 2300                                             | 3.0                                         |
| AUG.<br>24... | 356                                                        | <5                                           | 4                            | 1.0                                                          | 230                                              | 36                                          |
| SEP.<br>29... | 371                                                        | 5                                            | 5                            | 1.0                                                          | 1500                                             | 29                                          |

## 02411800 LITTLE RIVER NEAR BUCHANAN, GA.

LOCATION.--Lat 33°47'51", long 85°07'03", Haralson County, 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 mi<sup>2</sup> (47 km<sup>2</sup>), 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.--17 years, 33.8 ft<sup>3</sup>/s (0.957 m<sup>3</sup>/s), 25.50 in/yr (647.7 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,820 ft<sup>3</sup>/s (108 m<sup>3</sup>/s) Mar. 14, 1966, gage height, 12.58 ft (3.834 m), from rating curve extended above 2,300 ft<sup>3</sup>/s (65.1 m<sup>3</sup>/s) on basis of slope-area measurement at gage height, 12.47 ft (3.801 m); minimum, 1.6 ft<sup>3</sup>/s (0.045 m<sup>3</sup>/s) Oct. 5, 6, 1970.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft<sup>3</sup>/s (14.2 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Jan. 26 | 1230 | 1170 33.1                                             | 6.60 2.012              | Mar. 31 | 1130 | 1250 35.4                                             | 7.06 2.152              |
| Mar. 16 | 1115 | *1420 40.2                                            | 7.83 2.387              |         |      |                                                       |                         |

Minimum daily discharge, 5.7 ft<sup>3</sup>/s (0.161 m<sup>3</sup>/s) Aug. 22, Sept. 17-19, 25-27.

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

| DAY         | OCT   | NOV     | DEC  | JAN  | FEB  | MAR  | APR  | MAY  | JUN  | JUL   | AUG   | SEP   |
|-------------|-------|---------|------|------|------|------|------|------|------|-------|-------|-------|
| 1           | 48    | 16      | 63   | 99   | 59   | 18   | 196  | 42   | 26   | 45    | 12    | 9.2   |
| 2           | 37    | 16      | 37   | 62   | 46   | 18   | 155  | 30   | 30   | 24    | 9.7   | 23    |
| 3           | 23    | 16      | 29   | 65   | 37   | 18   | 137  | 25   | 41   | 19    | 8.1   | 12    |
| 4           | 19    | 16      | 25   | 51   | 31   | 18   | 117  | 22   | 81   | 80    | 7.3   | 12    |
| 5           | 34    | 16      | 23   | 39   | 29   | 18   | 80   | 24   | 40   | 70    | 6.9   | 11    |
| 6           | 39    | 15      | 22   | 33   | 37   | 37   | 62   | 22   | 29   | 42    | 12    | 10    |
| 7           | 56    | 43      | 22   | 58   | 30   | 28   | 52   | 32   | 24   | 46    | 52    | 10    |
| 8           | 90    | 30      | 21   | 68   | 27   | 23   | 46   | 35   | 21   | 31    | 22    | 9.8   |
| 9           | 52    | 23      | 20   | 43   | 25   | 39   | 40   | 29   | 20   | 26    | 15    | 8.5   |
| 10          | 35    | 20      | 19   | 36   | 24   | 28   | 38   | 24   | 19   | 24    | 12    | 9.8   |
| 11          | 27    | 19      | 18   | 38   | 24   | 24   | 37   | 23   | 18   | 20    | 11    | 7.7   |
| 12          | 23    | 179     | 18   | 39   | 23   | 53   | 36   | 20   | 17   | 18    | 9.8   | 7.7   |
| 13          | 21    | 143     | 19   | 38   | 22   | 108  | 34   | 22   | 15   | 16    | 9.2   | 6.9   |
| 14          | 19    | 85      | 19   | 68   | 22   | 58   | 33   | 94   | 15   | 14    | 8.1   | 6.9   |
| 15          | 18    | 50      | 18   | 44   | 22   | 195  | 32   | 204  | 14   | 13    | 7.7   | 6.9   |
| 16          | 17    | 34      | 37   | 38   | 22   | 780  | 31   | 131  | 13   | 12    | 7.7   | 6.1   |
| 17          | 131   | 27      | 29   | 33   | 22   | 193  | 30   | 74   | 13   | 12    | 7.7   | 5.7   |
| 18          | 82    | 24      | 23   | 27   | 32   | 163  | 28   | 50   | 13   | 11    | 6.9   | 5.7   |
| 19          | 49    | 22      | 20   | 25   | 27   | 150  | 27   | 39   | 52   | 10    | 6.5   | 5.7   |
| 20          | 34    | 27      | 20   | 25   | 22   | 142  | 25   | 32   | 128  | 10    | 6.5   | 7.7   |
| 21          | 27    | 42      | 19   | 26   | 23   | 184  | 26   | 28   | 79   | 9.5   | 6.1   | 7.7   |
| 22          | 24    | 27      | 18   | 25   | 38   | 136  | 24   | 25   | 45   | 8.5   | 5.7   | 7.7   |
| 23          | 21    | 25      | 18   | 23   | 27   | 97   | 23   | 26   | 30   | 8.1   | 6.9   | 6.5   |
| 24          | 20    | 23      | 19   | 23   | 23   | 72   | 22   | 26   | 24   | 7.7   | 17    | 6.1   |
| 25          | 19    | 22      | 30   | 23   | 22   | 62   | 29   | 22   | 20   | 7.7   | 9.2   | 5.7   |
| 26          | 20    | 20      | 59   | 617  | 21   | 57   | 24   | 21   | 20   | 7.3   | 8.5   | 5.7   |
| 27          | 20    | 23      | 35   | 188  | 21   | 113  | 21   | 33   | 19   | 8.1   | 10    | 5.7   |
| 28          | 18    | 20      | 28   | 137  | 19   | 79   | 18   | 87   | 18   | 9.3   | 14    | 6.5   |
| 29          | 18    | 20      | 24   | 120  | 18   | 65   | 20   | 52   | 21   | 8.5   | 16    | 9.8   |
| 30          | 18    | 25      | 27   | 105  | ---  | 128  | 25   | 38   | 56   | 11    | 15    | 9.8   |
| 31          | 17    | ---     | 146  | 71   | ---  | 610  | ---  | 29   | ---  | 12    | 9.6   | ---   |
| TOTAL       | 1076  | 1068    | 925  | 2287 | 795  | 3714 | 1468 | 1361 | 961  | 640.7 | 356.1 | 253.5 |
| MEAN        | 34.7  | 35.6    | 29.8 | 73.8 | 27.4 | 120  | 48.9 | 43.9 | 32.0 | 20.7  | 11.5  | 8.45  |
| MAX         | 131   | 179     | 146  | 617  | 59   | 780  | 196  | 204  | 128  | 80    | 52    | 23    |
| MIN         | 17    | 15      | 18   | 23   | 18   | 18   | 18   | 20   | 13   | 7.3   | 5.7   | 5.7   |
| CFSM        | 1.93  | 1.98    | 1.66 | 4.10 | 1.52 | 6.67 | 2.72 | 2.44 | 1.78 | 1.15  | .64   | .47   |
| IN.         | 2.22  | 2.21    | 1.91 | 4.73 | 1.64 | 7.68 | 3.03 | 2.81 | 1.99 | 1.32  | .74   | .52   |
| CAL YR 1975 | TOTAL | 15648.4 | MEAN | 42.9 | MAX  | 457  | MIN  | 6.4  | CFSM | 2.38  | IN    | 32.34 |
| WTR YR 1976 | TOTAL | 14905.3 | MEAN | 40.7 | MAX  | 780  | MIN  | 5.7  | CFSM | 2.26  | IN    | 30.80 |

## MOBILE RIVER BASIN

379

02411930 TALLAPOOSA RIVER BELOW TALLAPOOSA, GA.

LOCATION.--Lat 33°44'27", long 85°20'11", Haralson County, 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 mi<sup>2</sup> (700 km<sup>2</sup>), 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| NOV.<br>03... | 1345 | 346                                           | 6.9           | 12.5                        | --                                 |
| DEC.<br>08... | 1245 | 444                                           | 6.8           | 11.0                        | 10.6                               |
| JAN.<br>19... | 1310 | 486                                           | 6.6           | 2.0                         | 13.4                               |
| FEB.<br>23... | 1340 | 574                                           | 6.8           | 9.5                         | 11.0                               |
| MAR.<br>22... | 1500 | 1420                                          | 6.4           | 12.0                        | 12.1                               |
| APR.<br>19... | 1315 | 528                                           | 6.9           | 17.0                        | 9.3                                |
| MAY<br>19...  | 0915 | 584                                           | 6.9           | 14.5                        | 8.6                                |
| JUNE<br>21... | 1300 | 1062                                          | 6.7           | 21.0                        | 7.8                                |
| JULY<br>27... | 1140 | 186                                           | 7.0           | 24.5                        | 7.6                                |
| AUG.<br>31... | 1130 | 195                                           | 6.9           | 22.5                        | 7.2                                |

| DATE          | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) |
|---------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| NOV.<br>03... | 12                                       | .10                                                  | <.02                                               | .02                                       | 10                                 |
| DEC.<br>08... | 11                                       | .12                                                  | .14                                                | .02                                       | 10                                 |
| JAN.<br>19... | 10                                       | .14                                                  | .03                                                | .02                                       | 10                                 |
| FEB.<br>23... | 10                                       | .13                                                  | <.02                                               | .02                                       | 9                                  |
| MAR.<br>22... | 9                                        | .13                                                  | .02                                                | .07                                       | 8                                  |
| APR.<br>19... | 10                                       | .12                                                  | <.02                                               | .03                                       | 8                                  |
| MAY<br>19...  | 10                                       | .13                                                  | <.02                                               | .04                                       | 9                                  |
| JUNE<br>21... | 9                                        | .13                                                  | <.02                                               | .10                                       | 6                                  |
| JULY<br>27... | 12                                       | .23                                                  | <.02                                               | .02                                       | 11                                 |
| AUG.<br>31... | 10                                       | .09                                                  | <.02                                               | .05                                       | 10                                 |

## MOBILE RIVER BASIN

02411930 TALLAPOOSA RIVER BELOW TALLAPOOSA, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| NOV.<br>03... | 32                                                         | 25                                           | 7                            | .5                                                           | 230                                              | 2.0                                         |
| DEC.<br>08... | 32                                                         | 15                                           | 9                            | .6                                                           | 230                                              | 3.0                                         |
| JAN.<br>19... | 31                                                         | 15                                           | 9                            | .4                                                           | 36                                               | 2.0                                         |
| FEB.<br>23... | 30                                                         | 20                                           | 12                           | .6                                                           | 430                                              | 2.0                                         |
| MAR.<br>22... | 28                                                         | 70                                           | 48                           | 1.1                                                          | 2300                                             | 6.0                                         |
| APR.<br>19... | 28                                                         | 15                                           | 13                           | --                                                           | 230                                              | 3.0                                         |
| MAY<br>19...  | 29                                                         | 40                                           | 29                           | .9                                                           | 430                                              | 4.0                                         |
| JUNE<br>21... | 29                                                         | 60                                           | 44                           | 1.7                                                          | 9300                                             | 5.0                                         |
| JULY<br>27... | 36                                                         | 5                                            | 10                           | .8                                                           | 750                                              | 3.0                                         |
| AUG.<br>31... | 33                                                         | 60                                           | 32                           | .8                                                           | --                                               | 7.0                                         |



02413210 LITTLE TALLAPOOSA RIVER BELOW BOWDON, GA.

LOCATION.--Lat 33°29'34", long 85°16'45", Carroll County, 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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| NOV.<br>03... | 1445 | 241                                           | 6.8           | 13.0                        | --                                 |
| DEC.<br>08... | 1345 | 395                                           | 6.8           | 11.5                        | 9.6                                |
| JAN.<br>19... | 1410 | 403                                           | 6.8           | 2.5                         | 12.7                               |
| FEB.<br>23... | 1235 | 638                                           | 6.9           | 10.0                        | 9.6                                |
| MAR.<br>22... | 1330 | 2250                                          | 6.5           | 12.0                        | 8.6                                |
| APR.<br>19... | 1225 | 403                                           | 6.9           | 17.0                        | 8.6                                |
| MAY<br>19...  | 1015 | 543                                           | 6.8           | 16.0                        | 7.6                                |
| JUNE<br>21... | 1215 | 585                                           | 6.7           | 21.0                        | 7.1                                |
| JULY<br>27... | 1040 | 142                                           | 6.9           | 23.5                        | 6.7                                |
| AUG.<br>31... | 1040 | 111                                           | 6.8           | 23.0                        | 5.4                                |

| DATE          | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) |
|---------------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|
| NOV.<br>03... | 17                                       | .65                                                  | .29                                                | .12                                       | 15                                  |
| DEC.<br>08... | 13                                       | .45                                                  | .17                                                | .07                                       | 11                                  |
| JAN.<br>19... | 12                                       | .42                                                  | .25                                                | .08                                       | 12                                  |
| FEB.<br>23... | 12                                       | .44                                                  | .10                                                | .08                                       | 12                                  |
| MAR.<br>22... | 7                                        | .26                                                  | .07                                                | .11                                       | 9                                   |
| APR.<br>19... | 12                                       | .42                                                  | .08                                                | .08                                       | 10                                  |
| MAY<br>19...  | 13                                       | .37                                                  | .02                                                | .09                                       | 12                                  |
| JUNE<br>21... | 12                                       | .31                                                  | .02                                                | .13                                       | 10                                  |
| JULY<br>27... | 15                                       | .80                                                  | .04                                                | .08                                       | 15                                  |
| AUG.<br>31... | 14                                       | 1.6                                                  | .22                                                | .12                                       | 16                                  |

## MOBILE RIVER BASIN

02413210 LITTLE TALLAPOOSA RIVER BELOW BOWDON, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| NOV.<br>03... | 72                                                         | 30                                           | 12                           | 1.4                                                          | 230                                              | 3.0                                         |
| DEC.<br>08... | 50                                                         | 35                                           | 17                           | .8                                                           | 230                                              | 3.0                                         |
| JAN.<br>19... | 45                                                         | 25                                           | 14                           | .6                                                           | 30                                               | 3.0                                         |
| FEB.<br>23... | 45                                                         | 40                                           | 25                           | 1.5                                                          | 930                                              | 3.0                                         |
| MAR.<br>22... | 32                                                         | 75                                           | 70                           | 1.3                                                          | 2300                                             | 14                                          |
| APR.<br>19... | 40                                                         | 35                                           | 20                           | --                                                           | 230                                              | 3.0                                         |
| MAY<br>19...  | 42                                                         | 65                                           | 50                           | 1.0                                                          | 230                                              | 5.0                                         |
| JUNE<br>21... | 41                                                         | 60                                           | 44                           | 1.5                                                          | 1500                                             | 3.0                                         |
| JULY<br>27... | 58                                                         | 20                                           | 12                           | .8                                                           | 230                                              | 3.0                                         |
| AUG.<br>31... | 86                                                         | 35                                           | 10                           | 1.5                                                          | 230                                              | 4.0                                         |

## LAKES AND RESERVOIRS IN MOBILE RIVER BASIN

02381400 CARTERS LAKE.--Lat 34°36'50", long 84°40'16", Murray County, 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 mi<sup>2</sup> (974 km<sup>2</sup>). 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 hm<sup>3</sup>). Capacity at maximum power pool elevation, 1,072 ft (326.75 m), 377,100 acre-ft (465 hm<sup>3</sup>). Dead storage below elevation 1,022 ft (311.51 m), 242,200 acre-ft (299 hm<sup>3</sup>). 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 hm<sup>3</sup>) July 6, 1976, elevation, 1,078.14 ft (328.617 m); minimum, after first filling, 356,900 acre-ft (440 hm<sup>3</sup>) Aug. 30, 1976, elevation, 1,065.85 ft (324.871 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 396,500 acre-ft (489 hm<sup>3</sup>) July 6, elevation, 1,078.14 ft (328.617 m); minimum, 356,900 acre-ft (440 hm<sup>3</sup>) Aug. 30, elevation, 1,065.85 ft (324.871 m).

02382400 CARTERS RE-REGULATION DAM.--Lat 34°36'15", long 84°41'29", Murray County, 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 mi<sup>2</sup> (1,370 km<sup>2</sup>). 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 hm<sup>3</sup>). Dead storage, 290 acre-ft (0.36 hm<sup>3</sup>). 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, 13,900 acre-ft (17.1 hm<sup>3</sup>) July 8, 1976, elevation, 693.47 ft (211.370 m); minimum, 500 acre-ft (0.62 hm<sup>3</sup>) June 30, 1975, elevation, 666.12 ft (203.033 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 13,900 acre-ft (17.1 hm<sup>3</sup>) July 8, elevation, 693.47 ft (211.370 m); minimum, 600 acre-ft (0.74 hm<sup>3</sup>) June 12, elevation, 668.77 ft (203.841 m).

## MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| Date          | Elevation<br>(feet)   | Contents<br>(acre-feet) | Elevation<br>(feet)                | Contents<br>(acre-feet) | Combined change in contents<br>(acre-feet)    |
|---------------|-----------------------|-------------------------|------------------------------------|-------------------------|-----------------------------------------------|
|               | 02381400 CARTERS LAKE |                         | 02382400 CARTERS RE-REGULATION DAM |                         | CARTERS LAKE AND CARTERS<br>RE-REGULATION DAM |
| Sept. 30..... | 1071.62               | 375100                  | 679.90                             | 3900                    | -                                             |
| Oct. 31.....  | 1071.47               | 374600                  | 677.64                             | 2800                    | -1600                                         |
| Nov. 30.....  | 1072.30               | 377300                  | 670.67                             | 900                     | +800                                          |
| Dec. 31.....  | 1069.79               | 369200                  | 689.17                             | 10400                   | +1400                                         |
| CAL YR 1975   | -                     | -                       | -                                  | -                       | +354600                                       |
| Jan. 31.....  | 1072.89               | 379200                  | 677.90                             | 3000                    | +2600                                         |
| Feb. 29.....  | 1073.90               | 382400                  | 682.91                             | 6000                    | +6200                                         |
| Mar. 31.....  | 1075.00               | 386000                  | 692.11                             | 12700                   | +10300                                        |
| Apr. 30.....  | 1071.51               | 374700                  | 679.43                             | 3700                    | -20300                                        |
| May 31.....   | 1074.66               | 384900                  | 680.49                             | 4300                    | +10800                                        |
| June 30.....  | 1074.25               | 383600                  | 684.32                             | 7000                    | +1400                                         |
| July 31.....  | 1069.50               | 368300                  | 679.27                             | 3600                    | -18700                                        |
| Aug. 31.....  | 1066.22               | 358100                  | 679.37                             | 3700                    | -10100                                        |
| Sept. 30..... | 1066.87               | 360100                  | 680.60                             | 4400                    | +2700                                         |
| WTR YR 1976   | -                     | -                       | -                                  | -                       | -14500                                        |

## LAKES AND RESERVOIRS IN MOBILE RIVER BASIN--Continued

02393500 ALLATOONA LAKE.--Lat 34°09'46", long 84°43'40", Bartow County, 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 mi<sup>2</sup> (2,870 km<sup>2</sup>), 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 hm<sup>3</sup>), of which 587,100 acre-ft (724 hm<sup>3</sup>) 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 hm<sup>3</sup>) Apr. 10, 1964, elevation, 861.19 ft (262.491 m); minimum, 119,600 acre-ft (147 hm<sup>3</sup>) Dec. 4, 1954, elevation, 809.34 ft (246.69 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 521,200 acre-ft (643 hm<sup>3</sup>) Apr. 4; minimum, 186,200 acre-ft (230 hm<sup>3</sup>) Dec. 19, elevation, 820.74 ft (250.162 m).

## MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| Date                    | Elevation<br>(feet) | Contents<br>(acre-feet) | Change in contents<br>(acre-feet) |
|-------------------------|---------------------|-------------------------|-----------------------------------|
| 02393500 ALLATOONA LAKE |                     |                         |                                   |
| Sept. 30.....           | 836.70              | 329800                  | -                                 |
| Oct. 31.....            | 833.10              | 291900                  | -37900                            |
| Nov. 30.....            | 828.48              | 248000                  | -43900                            |
| Dec. 31.....            | 823.85              | 209300                  | -38700                            |
| CAL YR 1975             | -                   | -                       | -4300                             |
| Jan. 31.....            | 830.47              | 266300                  | +57000                            |
| Feb. 29.....            | 830.93              | 270600                  | +4300                             |
| Mar. 31.....            | 846.55              | 451300                  | +180700                           |
| Apr. 30.....            | 840.64              | 375100                  | -76200                            |
| May 31.....             | 841.62              | 387000                  | +11900                            |
| June 30.....            | 841.34              | 383600                  | -3400                             |
| July 31.....            | 839.83              | 365500                  | -18100                            |
| Aug. 31.....            | 837.32              | 336600                  | -28900                            |
| Sept. 30.....           | 832.86              | 289500                  | -47100                            |
| WTR YR 1976             | -                   | -                       | -40300                            |

## 03545000 HIWASSEE RIVER AT PRESLEY, GA.

LOCATION.--Lat 34°54'17", long 83°42'01", Towns County, 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 mi<sup>2</sup> (118 km<sup>2</sup>).

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.--35 years, 139 ft<sup>3</sup>/s (3.94 m<sup>3</sup>/s), 41.49 in/yr (1,053.8 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,700 ft<sup>3</sup>/s (161 m<sup>3</sup>/s) Mar. 11, 1952, gage height, 15.24 ft (4.645 m), from rating curve extended above 3,000 ft<sup>3</sup>/s (85.0 m<sup>3</sup>/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 ft<sup>3</sup>/s (0.42 m<sup>3</sup>/s) Dec. 16, 1958, gage height, 1.48 ft (0.451 m), result of a freezeup; minimum daily, 23 ft<sup>3</sup>/s (0.65 m<sup>3</sup>/s) Sept. 29, Oct. 5, 6, 8, 10-13, 1954, Sept. 7, 1957.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft<sup>3</sup>/s (22.7 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date   | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|--------|------|-------------------------------------------------------|-------------------------|
| Oct. 17 | 1415 | 2140 60.6                                             | 8.09 2.466              | May 15 | 0745 | *3360 95.2                                            | 10.91 3.325             |
| Mar. 31 | 1745 | 1800 51.0                                             | 7.13 2.173              | May 28 | 1445 | 2300 65.1                                             | 8.51 2.594              |

Minimum discharge, 44 ft<sup>3</sup>/s (1.25 m<sup>3</sup>/s) Sept. 25, 26, gage height, 1.40 ft (0.427 m).

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

| DAY   | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | APR  | MAY   | JUN  | JUL  | AUG  | SEP  |
|-------|------|------|------|------|------|------|------|-------|------|------|------|------|
| 1     | 339  | 133  | 161  | 366  | 232  | 139  | 757  | 169   | 396  | 139  | 88   | 60   |
| 2     | 274  | 130  | 147  | 270  | 214  | 137  | 482  | 145   | 363  | 128  | 86   | 59   |
| 3     | 178  | 127  | 140  | 268  | 199  | 135  | 387  | 138   | 333  | 126  | 91   | 57   |
| 4     | 147  | 123  | 134  | 237  | 189  | 132  | 339  | 133   | 306  | 339  | 82   | 56   |
| 5     | 129  | 121  | 129  | 212  | 183  | 138  | 301  | 131   | 282  | 381  | 79   | 56   |
| 6     | 118  | 119  | 128  | 197  | 180  | 157  | 271  | 130   | 265  | 295  | 91   | 55   |
| 7     | 109  | 181  | 126  | 212  | 173  | 140  | 255  | 251   | 250  | 270  | 89   | 54   |
| 8     | 182  | 148  | 123  | 207  | 169  | 137  | 242  | 163   | 255  | 240  | 79   | 51   |
| 9     | 158  | 142  | 122  | 188  | 164  | 167  | 230  | 151   | 240  | 220  | 76   | 51   |
| 10    | 136  | 255  | 118  | 180  | 160  | 156  | 221  | 145   | 227  | 205  | 72   | 54   |
| 11    | 124  | 198  | 116  | 189  | 158  | 149  | 213  | 171   | 212  | 195  | 69   | 51   |
| 12    | 115  | 282  | 114  | 181  | 153  | 199  | 207  | 155   | 200  | 185  | 69   | 50   |
| 13    | 107  | 316  | 111  | 190  | 151  | 267  | 200  | 158   | 185  | 175  | 69   | 50   |
| 14    | 101  | 234  | 111  | 225  | 148  | 214  | 194  | 281   | 177  | 168  | 68   | 51   |
| 15    | 96   | 195  | 111  | 202  | 146  | 203  | 188  | 1860  | 168  | 161  | 93   | 56   |
| 16    | 93   | 177  | 126  | 192  | 144  | 321  | 184  | 663   | 166  | 159  | 81   | 52   |
| 17    | 1080 | 165  | 115  | 182  | 142  | 271  | 179  | 426   | 161  | 152  | 71   | 51   |
| 18    | 551  | 157  | 111  | 170  | 196  | 227  | 175  | 348   | 247  | 145  | 63   | 49   |
| 19    | 325  | 150  | 108  | 164  | 180  | 202  | 172  | 300   | 245  | 141  | 55   | 50   |
| 20    | 264  | 150  | 107  | 161  | 165  | 192  | 168  | 272   | 381  | 139  | 50   | 51   |
| 21    | 232  | 167  | 108  | 158  | 170  | 211  | 167  | 255   | 260  | 134  | 47   | 54   |
| 22    | 209  | 148  | 105  | 154  | 190  | 189  | 163  | 240   | 220  | 130  | 86   | 49   |
| 23    | 192  | 149  | 103  | 151  | 175  | 180  | 158  | 227   | 197  | 128  | 79   | 48   |
| 24    | 178  | 144  | 102  | 150  | 167  | 173  | 155  | 217   | 180  | 124  | 68   | 48   |
| 25    | 171  | 138  | 188  | 148  | 160  | 170  | 157  | 207   | 168  | 118  | 53   | 46   |
| 26    | 166  | 133  | 323  | 501  | 156  | 169  | 151  | 197   | 173  | 114  | 66   | 86   |
| 27    | 159  | 150  | 206  | 445  | 150  | 182  | 146  | 192   | 159  | 104  | 195  | 160  |
| 28    | 152  | 139  | 173  | 309  | 147  | 170  | 143  | 1180  | 148  | 99   | 100  | 89   |
| 29    | 148  | 134  | 158  | 258  | 143  | 182  | 141  | 1070  | 141  | 97   | 82   | 70   |
| 30    | 142  | 137  | 172  | 229  | ---  | 622  | 141  | 603   | 163  | 95   | 69   | 79   |
| 31    | 136  | ---  | 462  | 209  | ---  | 907  | ---  | 453   | ---  | 93   | 62   | ---  |
| TOTAL | 6511 | 4942 | 4558 | 6905 | 4904 | 6838 | 6887 | 11031 | 6868 | 5199 | 2428 | 1793 |
| MEAN  | 210  | 165  | 147  | 223  | 169  | 221  | 230  | 356   | 229  | 168  | 78.3 | 59.8 |
| MAX   | 1080 | 316  | 462  | 501  | 232  | 907  | 757  | 1860  | 396  | 381  | 195  | 160  |
| MIN   | 93   | 119  | 102  | 148  | 142  | 132  | 141  | 130   | 141  | 93   | 47   | 46   |
| CFSM  | 4.62 | 3.63 | 3.23 | 4.90 | 3.71 | 4.86 | 5.05 | 7.82  | 5.03 | 3.69 | 1.72 | 1.31 |
| IN.   | 5.32 | 4.04 | 3.73 | 5.65 | 4.01 | 5.59 | 5.63 | 9.02  | 5.62 | 4.25 | 1.99 | 1.47 |

CAL YR 1975 TOTAL 61559 MEAN 169 MAX 1080 MIN 43 CFSM 3.71 IN 50.33  
WTP YR 1976 TOTAL 68864 MEAN 188 MAX 1860 MIN 46 CFSM 4.13 IN 56.30

## 03550500 NOTTELY RIVER NEAR BLAIRSVILLE, GA.

LOCATION.--Lat 34°50'28", long 83°56'10", Union County, on left bank 250 ft (76 m) upstream from county road bridge, 0.1 mi (0.2 km) downstream from Arkqua 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 mi<sup>2</sup> (194 km<sup>2</sup>).

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.--34 years, 187 ft<sup>3</sup>/s (5.30 m<sup>3</sup>/s), 33.95 in/yr (962.3 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,900 ft<sup>3</sup>/s (365 m<sup>3</sup>/s) Aug. 23, 1967, gage height, 21.04 ft (6.413 m), from floodmark, from rating curve extended above 3,400 ft<sup>3</sup>/s (96.3 m<sup>3</sup>/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 ft<sup>3</sup>/s (0.76 m<sup>3</sup>/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 ft<sup>3</sup>/s (56.6 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Oct. 1  | 1315 | 2680 75.9                                             | 7.77 2.368              | May 29  | 0130 | 2040 57.8                                             | 6.35 1.935              |
| Oct. 17 | 1245 | 3790 107                                              | 9.98 3.042              | June 1  | 1945 | 3320 94.0                                             | 9.05 2.758              |
| Mar. 31 | 1745 | 2920 82.7                                             | 8.25 2.515              | June 19 | 1615 | 2560 72.5                                             | 7.51 2.289              |
| May 15  | 0230 | *6080 172                                             | 14.26 4.346             | July 4  | 1230 | 2250 63.7                                             | 6.72 2.048              |

Minimum discharge, 64 ft<sup>3</sup>/s (1.81 m<sup>3</sup>/s) Sept. 25, 26, gage height, 2.12 ft (0.646 m).

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

| DAY         | OCT   | NOV   | DEC      | JAN      | FEB    | MAR       | APR      | MAY   | JUN   | JUL  | AUG  | SEP  |
|-------------|-------|-------|----------|----------|--------|-----------|----------|-------|-------|------|------|------|
| 1           | 1110  | 140   | 257      | 565      | 347    | 184       | 1150     | 217   | 828   | 220  | 127  | 117  |
| 2           | 564   | 134   | 222      | 388      | 309    | 179       | 676      | 167   | 662   | 204  | 122  | 115  |
| 3           | 304   | 129   | 205      | 438      | 282    | 173       | 515      | 154   | 480   | 197  | 124  | 108  |
| 4           | 236   | 127   | 185      | 358      | 264    | 169       | 434      | 146   | 404   | 914  | 116  | 105  |
| 5           | 200   | 124   | 175      | 307      | 253    | 191       | 378      | 142   | 351   | 705  | 114  | 105  |
| 6           | 176   | 122   | 172      | 278      | 247    | 273       | 343      | 141   | 322   | 440  | 160  | 102  |
| 7           | 158   | 315   | 167      | 310      | 234    | 212       | 318      | 264   | 302   | 361  | 143  | 96   |
| 8           | 244   | 211   | 161      | 302      | 225    | 200       | 298      | 169   | 290   | 306  | 120  | 93   |
| 9           | 209   | 181   | 162      | 265      | 216    | 257       | 281      | 154   | 304   | 279  | 114  | 91   |
| 10          | 179   | 260   | 154      | 248      | 209    | 231       | 267      | 145   | 342   | 257  | 107  | 91   |
| 11          | 160   | 219   | 146      | 250      | 205    | 215       | 259      | 194   | 294   | 242  | 104  | 84   |
| 12          | 147   | 505   | 141      | 239      | 196    | 338       | 251      | 167   | 261   | 228  | 102  | 82   |
| 13          | 136   | 495   | 138      | 276      | 192    | 474       | 240      | 159   | 244   | 217  | 101  | 80   |
| 14          | 128   | 329   | 136      | 353      | 187    | 337       | 232      | 677   | 233   | 205  | 98   | 81   |
| 15          | 121   | 272   | 136      | 288      | 182    | 310       | 224      | 3730  | 224   | 197  | 138  | 86   |
| 16          | 118   | 239   | 175      | 270      | 180    | 554       | 217      | 1060  | 228   | 203  | 117  | 82   |
| 17          | 1900  | 217   | 146      | 250      | 177    | 429       | 209      | 657   | 230   | 197  | 101  | 80   |
| 18          | 851   | 200   | 137      | 226      | 331    | 345       | 203      | 483   | 262   | 181  | 95   | 77   |
| 19          | 453   | 189   | 130      | 215      | 264    | 304       | 198      | 381   | 736   | 175  | 91   | 75   |
| 20          | 336   | 211   | 130      | 208      | 228    | 292       | 194      | 331   | 837   | 173  | 88   | 78   |
| 21          | 284   | 240   | 128      | 201      | 263    | 377       | 203      | 301   | 423   | 168  | 87   | 82   |
| 22          | 251   | 200   | 125      | 192      | 320    | 308       | 189      | 280   | 332   | 160  | 92   | 73   |
| 23          | 228   | 211   | 121      | 187      | 270    | 283       | 181      | 264   | 291   | 158  | 149  | 70   |
| 24          | 214   | 203   | 119      | 187      | 245    | 264       | 175      | 250   | 269   | 160  | 118  | 69   |
| 25          | 200   | 189   | 293      | 185      | 229    | 253       | 182      | 236   | 252   | 148  | 92   | 68   |
| 26          | 189   | 181   | 529      | 999      | 217    | 253       | 180      | 224   | 260   | 148  | 131  | 108  |
| 27          | 178   | 211   | 298      | 754      | 207    | 297       | 184      | 219   | 243   | 145  | 586  | 202  |
| 28          | 165   | 189   | 241      | 475      | 197    | 260       | 179      | 1070  | 227   | 148  | 296  | 128  |
| 29          | 160   | 181   | 212      | 377      | 190    | 272       | 175      | 1260  | 219   | 136  | 185  | 117  |
| 30          | 152   | 197   | 231      | 326      | ---    | 1090      | 166      | 688   | 269   | 136  | 145  | 112  |
| 31          | 145   | ---   | 856      | 295      | ---    | 1520      | ---      | 499   | ---   | 131  | 125  | ---  |
| TOTAL       | 9896  | 6621  | 6428     | 10210    | 6866   | 10844     | 8701     | 14829 | 10619 | 7539 | 4288 | 2857 |
| MEAN        | 319   | 221   | 207      | 329      | 237    | 350       | 290      | 478   | 354   | 243  | 138  | 95.2 |
| MAX         | 1900  | 505   | 856      | 999      | 347    | 1520      | 1150     | 3730  | 837   | 914  | 586  | 202  |
| MIN         | 118   | 122   | 119      | 185      | 177    | 169       | 166      | 141   | 219   | 131  | 87   | 68   |
| CFSM        | 4.26  | 2.95  | 2.77     | 4.40     | 3.17   | 4.68      | 3.88     | 6.39  | 4.73  | 3.25 | 1.84 | 1.27 |
| IN.         | 4.92  | 3.29  | 3.20     | 5.08     | 3.41   | 5.39      | 4.33     | 7.37  | 5.28  | 3.75 | 2.13 | 1.42 |
| CAL YR 1975 | TOTAL | 88982 | MEAN 244 | MAX 1900 | MIN 50 | CFSM 3.26 | IN 44.25 |       |       |      |      |      |
| WTR YR 1976 | TOTAL | 99700 | MEAN 272 | MAX 3730 | MIN 68 | CFSM 3.64 | IN 49.58 |       |       |      |      |      |

03558000 TOCCOA RIVER NEAR DIAL, GA.

LOCATION.--Lat 34°47'24", long 84°14'24", Fannin County, 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 mi<sup>2</sup> (458 km<sup>2</sup>).

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.--64 years, 497 ft<sup>3</sup>/s (14.1 m<sup>3</sup>/s), 38.13 in/yr (968.5 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,700 ft<sup>3</sup>/s (416 m<sup>3</sup>/s), Aug. 23, 1967, gage height, 13.73 ft (4.185 m), from rating curve extended above 5,000 ft<sup>3</sup>/s (142 m<sup>3</sup>/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 ft<sup>3</sup>/s (1.70 m<sup>3</sup>/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 ft<sup>3</sup>/s (68.0 m<sup>3</sup>/s) and maximum (\*):

| Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) | Date    | Time | Discharge<br>(ft <sup>3</sup> /s) (m <sup>3</sup> /s) | Gage height<br>(ft) (m) |
|---------|------|-------------------------------------------------------|-------------------------|---------|------|-------------------------------------------------------|-------------------------|
| Oct. 1  | 1545 | 4510 128                                              | 6.88 2.097              | May 15  | 0700 | *7100 201                                             | 8.82 2.688              |
| Oct. 17 | 1445 | 6570 186                                              | 8.44 2.573              | May 29  | 0230 | 2440 69.1                                             | 4.87 1.484              |
| Jan. 26 | 1300 | 2750 77.9                                             | 5.21 1.588              | June 19 | 1645 | 3410 96.6                                             | 5.87 1.789              |
| Mar. 31 | 2230 | 3200 90.6                                             | 5.66 1.725              | July 4  | 1830 | 3270 92.6                                             | 5.73 1.747              |

Minimum discharge, 203 ft<sup>3</sup>/s (5.75 m<sup>3</sup>/s) Sept. 26, gage height, 1.11 ft (0.338 m).

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

| DAY         | OCT   | NOV    | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG   | SEP   |
|-------------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1           | 2310  | 489    | 860   | 1100  | 929   | 575   | 2030  | 903   | 987   | 695   | 471   | 300   |
| 2           | 1320  | 477    | 725   | 904   | 912   | 563   | 1470  | 699   | 977   | 646   | 450   | 300   |
| 3           | 755   | 468    | 601   | 1240  | 844   | 554   | 1290  | 630   | 907   | 641   | 441   | 292   |
| 4           | 612   | 460    | 575   | 972   | 812   | 545   | 1190  | 595   | 875   | 1850  | 425   | 284   |
| 5           | 551   | 450    | 555   | 872   | 790   | 581   | 1120  | 579   | 841   | 1730  | 417   | 288   |
| 6           | 510   | 441    | 541   | 812   | 779   | 815   | 1070  | 568   | 829   | 1210  | 468   | 280   |
| 7           | 473   | 891    | 534   | 963   | 770   | 639   | 1010  | 639   | 822   | 1140  | 540   | 272   |
| 8           | 647   | 812    | 520   | 917   | 758   | 602   | 964   | 581   | 814   | 946   | 444   | 268   |
| 9           | 573   | 618    | 519   | 869   | 748   | 732   | 905   | 559   | 812   | 848   | 412   | 260   |
| 10          | 499   | 661    | 502   | 820   | 738   | 672   | 860   | 542   | 809   | 795   | 396   | 257   |
| 11          | 463   | 612    | 485   | 800   | 732   | 625   | 844   | 673   | 833   | 757   | 381   | 248   |
| 12          | 438   | 1050   | 476   | 780   | 722   | 865   | 831   | 596   | 819   | 728   | 370   | 245   |
| 13          | 415   | 1210   | 466   | 807   | 712   | 1400  | 803   | 558   | 805   | 701   | 370   | 239   |
| 14          | 400   | 893    | 463   | 1050  | 700   | 954   | 785   | 776   | 792   | 671   | 356   | 236   |
| 15          | 388   | 761    | 467   | 832   | 689   | 860   | 767   | 4420  | 778   | 663   | 359   | 242   |
| 16          | 400   | 700    | 574   | 784   | 677   | 1440  | 750   | 1740  | 763   | 695   | 395   | 236   |
| 17          | 3410  | 674    | 491   | 746   | 662   | 1190  | 732   | 1270  | 740   | 679   | 340   | 227   |
| 18          | 1730  | 649    | 462   | 691   | 824   | 990   | 714   | 1090  | 1050  | 621   | 324   | 221   |
| 19          | 1130  | 624    | 442   | 666   | 847   | 894   | 702   | 994   | 1760  | 602   | 310   | 221   |
| 20          | 937   | 607    | 442   | 660   | 784   | 886   | 692   | 924   | 1960  | 592   | 300   | 227   |
| 21          | 829   | 753    | 441   | 647   | 746   | 1190  | 821   | 874   | 1180  | 577   | 296   | 251   |
| 22          | 769   | 668    | 428   | 631   | 922   | 996   | 701   | 844   | 963   | 561   | 300   | 222   |
| 23          | 729   | 629    | 421   | 618   | 829   | 893   | 666   | 832   | 860   | 564   | 511   | 213   |
| 24          | 694   | 629    | 413   | 624   | 749   | 827   | 649   | 827   | 805   | 568   | 469   | 211   |
| 25          | 657   | 607    | 722   | 632   | 652   | 801   | 688   | 820   | 770   | 529   | 330   | 208   |
| 26          | 622   | 585    | 1080  | 1800  | 634   | 779   | 639   | 811   | 780   | 515   | 342   | 235   |
| 27          | 592   | 607    | 826   | 1490  | 617   | 947   | 618   | 801   | 750   | 507   | 610   | 329   |
| 28          | 564   | 614    | 725   | 1110  | 600   | 817   | 603   | 1450  | 740   | 523   | 454   | 334   |
| 29          | 543   | 588    | 651   | 1040  | 587   | 786   | 593   | 1860  | 677   | 501   | 392   | 250   |
| 30          | 526   | 572    | 625   | 914   | ---   | 1870  | 597   | 1300  | 837   | 503   | 376   | 280   |
| 31          | 505   | ---    | 1420  | 867   | ---   | 2290  | ---   | 1070  | ---   | 485   | 322   | ---   |
| TOTAL       | 24991 | 19799  | 18452 | 27658 | 21765 | 28578 | 26104 | 30825 | 27335 | 23043 | 12371 | 7676  |
| MEAN        | 806   | 660    | 595   | 892   | 751   | 922   | 870   | 994   | 911   | 743   | 399   | 54    |
| MAX         | 3410  | 1210   | 1420  | 1800  | 929   | 2290  | 2030  | 4420  | 1960  | 1850  | 610   | 54    |
| MIN         | 388   | 441    | 413   | 618   | 587   | 545   | 593   | 542   | 677   | 485   | 296   | 58    |
| CFSM        | 4.55  | 3.73   | 3.36  | 5.04  | 4.24  | 5.21  | 4.92  | 5.62  | 5.15  | 4.20  | 2.25  | 1.45  |
| IN.         | 5.25  | 4.16   | 3.88  | 5.81  | 4.57  | 6.01  | 5.49  | 6.48  | 5.74  | 4.84  | 2.60  | 1.61  |
| CAL YR 1975 | TOTAL | 233852 | MEAN  | 641   | MAX   | 3410  | MIN   | 166   | CFSM  | 3.62  | IN    | 49.15 |
| WTR YR 1976 | TOTAL | 268597 | MEAN  | 734   | MAX   | 4420  | MIN   | 208   | CFSM  | 4.15  | IN    | 56.45 |



## TENNESSEE RIVER BASIN

03566800 SOUTH CHICKAMAUGA CREEK AT GRAYSVILLE, GA.

LOCATION.--Lat 34°58'39", long 85°08'42", Catoosa County, 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 mi<sup>2</sup> (513 km<sup>2</sup>).

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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE  | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|-------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.  |      |                                               |               |                             |                                    |
| 15... | 0820 | 201                                           | 7.8           | 16.5                        | 8.0                                |
| NOV.  |      |                                               |               |                             |                                    |
| 25... | 1100 | 222                                           | 7.6           | 7.5                         | 9.2                                |
| JAN.  |      |                                               |               |                             |                                    |
| 06... | 0820 | 524                                           | 7.5           | 5.0                         | 12.4                               |
| FEB.  |      |                                               |               |                             |                                    |
| 18... | 0935 | 186                                           | 7.9           | 14.0                        | 8.4                                |
| MAR.  |      |                                               |               |                             |                                    |
| 16... | 0915 | 1240                                          | 7.4           | 8.5                         | 10.8                               |
| MAY   |      |                                               |               |                             |                                    |
| 12... | 0845 | 189                                           | 7.8           | 16.0                        | 7.7                                |
| JUNE  |      |                                               |               |                             |                                    |
| 15... | 1505 | 96                                            | 8.2           | 23.0                        | 7.3                                |
| JULY  |      |                                               |               |                             |                                    |
| 20... | 0810 | 109                                           | 7.8           | 21.0                        | 7.5                                |
| AUG.  |      |                                               |               |                             |                                    |
| 24... | 0805 | 90                                            | 7.9           | 21.0                        | 6.9                                |
| SEP.  |      |                                               |               |                             |                                    |
| 30... | 1025 | 100                                           | 7.5           | 17.5                        | 7.0                                |

| DATE  | ALKA-<br>LINITY<br>AS<br>CACO3<br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA,MG)<br>(MG/L) |
|-------|------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|------------------------------------|
| OCT.  |                                          |                                                      |                                                    |                                           |                                    |
| 15... | 91                                       | .43                                                  | .28                                                | .05                                       | 98                                 |
| NOV.  |                                          |                                                      |                                                    |                                           |                                    |
| 25... | 89                                       | .28                                                  | .50                                                | .03                                       | 100                                |
| JAN.  |                                          |                                                      |                                                    |                                           |                                    |
| 06... | 55                                       | .50                                                  | <.02                                               | .04                                       | 62                                 |
| FEB.  |                                          |                                                      |                                                    |                                           |                                    |
| 18... | 97                                       | .29                                                  | <.02                                               | .03                                       | 104                                |
| MAR.  |                                          |                                                      |                                                    |                                           |                                    |
| 16... | 55                                       | .29                                                  | .04                                                | .09                                       | 60                                 |
| MAY   |                                          |                                                      |                                                    |                                           |                                    |
| 12... | 86                                       | .35                                                  | .04                                                | .04                                       | 99                                 |
| JUNE  |                                          |                                                      |                                                    |                                           |                                    |
| 15... | 106                                      | .28                                                  | <.02                                               | .03                                       | 120                                |
| JULY  |                                          |                                                      |                                                    |                                           |                                    |
| 20... | 102                                      | .33                                                  | <.02                                               | .03                                       | 113                                |
| AUG.  |                                          |                                                      |                                                    |                                           |                                    |
| 24... | 116                                      | .35                                                  | .02                                                | .05                                       | 130                                |
| SEP.  |                                          |                                                      |                                                    |                                           |                                    |
| 30... | 109                                      | .38                                                  | <.02                                               | .07                                       | 124                                |

03566800 SOUTH CHICKAMAUGA CREEK AT GRAYSVILLE, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>15... | 200                                                        | <5                                           | 7                            | .5                                                           | 4300                                             | 22                                          |
| NOV.<br>25... | 201                                                        | <5                                           | 3                            | .5                                                           | 1500                                             | 17                                          |
| JAN.<br>06... | 134                                                        | 5                                            | 10                           | .1                                                           | 2300                                             | 3.0                                         |
| FEB.<br>18... | 216                                                        | 5                                            | 7                            | .7                                                           | 3900                                             | 2.0                                         |
| MAR.<br>16... | 132                                                        | 25                                           | 33                           | 1.0                                                          | 4300                                             | 4.0                                         |
| MAY<br>12...  | 200                                                        | 5                                            | 16                           | .7                                                           | 4300                                             | 2.0                                         |
| JUNE<br>15... | 230                                                        | 5                                            | 5                            | .4                                                           | 430                                              | 2.0                                         |
| JULY<br>20... | 228                                                        | <5                                           | 10                           | .2                                                           | 430                                              | 1.0                                         |
| AUG.<br>24... | 244                                                        | <5                                           | 6                            | .5                                                           | 430                                              | 3.0                                         |
| SEP.<br>30... | 245                                                        | 10                                           | 12                           | .8                                                           | 430                                              | 27                                          |

## TENNESSEE RIVER BASIN

03567340 WEST CHICKAMAUGA CREEK NEAR LAKEVIEW, GA.

LOCATION.--Lat 34°57'26", long 85°12'20", Catoosa County, at Dyer Bridge on Cloud Springs Road, and 3 mi (4.8 km) southeast of Lakeview.

DRAINAGE AREA.--148 mi<sup>2</sup> (383 km<sup>2</sup>).

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, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | PH<br>(UNITS) | TEMPER-<br>ATURE<br>(DEG C) | DIS-<br>SOLVED<br>OXYGEN<br>(MG/L) |
|---------------|------|-----------------------------------------------|---------------|-----------------------------|------------------------------------|
| OCT.<br>15... | 0920 | 206                                           | 7.6           | 17.5                        | 6.8                                |
| NOV.<br>25... | 1200 | 162                                           | 7.7           | 8.0                         | 9.0                                |
| JAN.<br>06... | 0915 | 496                                           | 7.4           | 4.0                         | 11.9                               |
| FEB.<br>18... | 1010 | 115                                           | 7.5           | 13.0                        | 7.7                                |
| MAR.<br>16... | 0945 | 880                                           | 7.5           | 9.0                         | 9.8                                |
| APR.<br>13... | 0945 | 112                                           | 7.7           | 12.5                        | 7.7                                |
| MAY<br>12...  | 0920 | 122                                           | 7.6           | 16.0                        | 6.2                                |
| JUNE<br>15... | 1530 | 53                                            | 7.8           | 22.5                        | 5.6                                |
| JULY<br>20... | 0845 | 86                                            | 7.7           | 20.5                        | 6.6                                |
| AUG.<br>24... | 0845 | 52                                            | 7.6           | 21.0                        | 4.2                                |
| SEP.<br>30... | 0950 | 72                                            | 7.4           | 18.0                        | 4.2                                |

| DATE          | ALKA-<br>LINITY<br>AS<br>CACO <sub>3</sub><br>(MG/L) | TOTAL<br>NITRITE<br>PLUS<br>NITRATE<br>(N)<br>(MG/L) | TOTAL<br>AMMONIA<br>NITRO-<br>GEN<br>(N)<br>(MG/L) | TOTAL<br>PHOS-<br>PHORUS<br>(P)<br>(MG/L) | HARD-<br>NESS<br>(CA, MG)<br>(MG/L) |
|---------------|------------------------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------|-------------------------------------|
| OCT.<br>15... | 118                                                  | .61                                                  | .08                                                | .12                                       | 119                                 |
| NOV.<br>25... | 130                                                  | .50                                                  | .11                                                | .13                                       | 131                                 |
| JAN.<br>06... | 90                                                   | .60                                                  | <.02                                               | .07                                       | 96                                  |
| FEB.<br>18... | 114                                                  | .50                                                  | .04                                                | .15                                       | 120                                 |
| MAR.<br>16... | 90                                                   | .34                                                  | .13                                                | .15                                       | 96                                  |
| APR.<br>13... | 115                                                  | .50                                                  | .05                                                | .11                                       | 118                                 |
| MAY<br>12...  | 105                                                  | .53                                                  | .10                                                | .17                                       | 111                                 |
| JUNE<br>15... | 122                                                  | .68                                                  | .04                                                | .11                                       | 126                                 |
| JULY<br>20... | 117                                                  | .77                                                  | .03                                                | .07                                       | 122                                 |
| AUG.<br>24... | 129                                                  | .50                                                  | .03                                                | .21                                       | 128                                 |
| SEP.<br>30... | 126                                                  | .49                                                  | .02                                                | .20                                       | 124                                 |

03567340 WEST CHICKAMAUGA CREEK NEAR LAKEVIEW, GA.--Continued

## WATER QUALITY DATA, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE          | SPE-<br>CIFIC<br>CON-<br>DUCT-<br>ANCE<br>(MICRO-<br>MHOS) | COLOR<br>(PLAT-<br>INUM-<br>COBALT<br>UNITS) | TUR-<br>BID-<br>ITY<br>(JTU) | BIO-<br>CHEM-<br>ICAL<br>OXYGEN<br>DEMAND<br>5 DAY<br>(MG/L) | FECAL<br>COLI-<br>FORM<br>(EC<br>BROTH)<br>(MPN) | TOTAL<br>ORGANIC<br>CARBON<br>(C)<br>(MG/L) |
|---------------|------------------------------------------------------------|----------------------------------------------|------------------------------|--------------------------------------------------------------|--------------------------------------------------|---------------------------------------------|
| OCT.<br>15... | 256                                                        | 8                                            | 7                            | 1.0                                                          | 290                                              | 6.0                                         |
| NOV.<br>25... | 281                                                        | 8                                            | 6                            | 1.2                                                          | 4300                                             | 4.0                                         |
| JAN.<br>06... | 204                                                        | 5                                            | 13                           | .7                                                           | 150                                              | 4.0                                         |
| FEB.<br>18... | 249                                                        | 10                                           | 25                           | 2.5                                                          | 4300                                             | 5.0                                         |
| MAR.<br>16... | 199                                                        | 20                                           | 27                           | 1.6                                                          | 4300                                             | 5.0                                         |
| APR.<br>13... | 247                                                        | <5                                           | 7                            | 1.1                                                          | 73                                               | 3.0                                         |
| MAY<br>12...  | 240                                                        | 10                                           | 18                           | 1.5                                                          | 930                                              | 3.0                                         |
| JUNE<br>15... | 266                                                        | 5                                            | 8                            | .7                                                           | 150                                              | 4.0                                         |
| JULY<br>20... | 255                                                        | <5                                           | 25                           | .5                                                           | 1500                                             | 3.0                                         |
| AUG.<br>24... | 283                                                        | <5                                           | 4                            | .8                                                           | 73                                               | 7.0                                         |
| SEP.<br>30... | 265                                                        | 10                                           | 5                            | 1.0                                                          | 430                                              | 33                                          |

## TENNESSEE RIVER BASIN

## LAKES IN TENNESSEE RIVER BASIN

03553000 NOTTELY LAKE.--Lat 34°57'29", long 84°05'22", Union County, 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 mi<sup>2</sup> (554 km<sup>2</sup>). 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 ft<sup>3</sup>/s-days (215.1 hm<sup>3</sup>), of which 81,500 ft<sup>3</sup>/s-days (199.4 hm<sup>3</sup>) 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 ft<sup>3</sup>/s-days (230.3 hm<sup>3</sup>) 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 ft<sup>3</sup>/s-days (0.489 hm<sup>3</sup>) Oct. 6, 1947, elevation, 1,638.6 ft (499.44 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 87,400 ft<sup>3</sup>/s-days (213.9 hm<sup>3</sup>) July 5, elevation, 1,779.79 ft (542.480 m); minimum, 35,400 ft<sup>3</sup>/s-days (86.6 hm<sup>3</sup>) Dec. 25, elevation, 1,742.84 ft (531.218 m).

03558500 BLUE RIDGE LAKE.--Lat 34°52'52", long 84°16'49", Fannin County, 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 mi<sup>2</sup> (601 km<sup>2</sup>). 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 ft<sup>3</sup>/s-days (241.8 hm<sup>3</sup>), of which 92,800 ft<sup>3</sup>/s-days (227.1 hm<sup>3</sup>) 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 ft<sup>3</sup>/s-days (249.8 hm<sup>3</sup>) Feb. 11, 1946, elevation, 1,691.54 ft (515.581 m); minimum (after first filling), 6,500 ft<sup>3</sup>/s-days (15.91 hm<sup>3</sup>) Jan. 16, 1956, elevation, 1,587.75 ft (483.95 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 98,100 ft<sup>3</sup>/s-days (240.0 hm<sup>3</sup>) July 5, elevation, 1,690.55 ft (515.280 m); minimum, 51,800 ft<sup>3</sup>/s-days (126.8 hm<sup>3</sup>) Dec. 24, elevation, 1,657.80 ft (502.297 m).

## MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| Date                  | Elevation<br>(feet) | Contents<br>(cfs-days) | Change in<br>contents<br>(cfs-days) | Elevation<br>(feet)      | Contents<br>(cfs-days) | Change in<br>contents<br>(cfs-days) |
|-----------------------|---------------------|------------------------|-------------------------------------|--------------------------|------------------------|-------------------------------------|
| 03553000 NOTTELY LAKE |                     |                        |                                     | 03558500 BLUE RIDGE LAKE |                        |                                     |
| Sept. 30.....         | 1749.70             | 42100                  | -                                   | 1665.42                  | 60900                  | -                                   |
| Oct. 31.....          | 1753.57             | 46300                  | +4200                               | 1671.67                  | 69100                  | +8200                               |
| Nov. 30.....          | 1749.57             | 42000                  | -4300                               | 1666.36                  | 62100                  | -7000                               |
| Dec. 31.....          | 1745.38             | 37800                  | -4200                               | 1660.04                  | 54400                  | -7700                               |
| CAL YR 1975           | -                   | -                      | +900                                | -                        | -                      | +19000                              |
| Jan. 31.....          | 1751.12             | 43600                  | +5800                               | 1669.23                  | 65800                  | +11400                              |
| Feb. 29.....          | 1753.42             | 46200                  | +2600                               | 1669.26                  | 65900                  | +100                                |
| Mar. 31.....          | 1761.87             | 56700                  | +10500                              | 1683.35                  | 86500                  | +20600                              |
| Apr. 30.....          | 1766.41             | 63200                  | +6500                               | 1687.06                  | 92700                  | +6200                               |
| May 31.....           | 1770.01             | 81800                  | +18600                              | 1689.08                  | 95900                  | +3200                               |
| June 30.....          | 1778.38             | 84600                  | +2800                               | 1688.94                  | 95700                  | -200                                |
| July 31.....          | 1774.38             | 76600                  | -8000                               | 1686.47                  | 91700                  | -4000                               |
| Aug. 31.....          | 1765.75             | 62200                  | -14400                              | 1675.84                  | 75000                  | -16700                              |
| Sept. 30.....         | 1755.18             | 48200                  | -14000                              | 1664.22                  | 59400                  | -15600                              |
| WTR YR 1976           | -                   | -                      | +6100                               | -                        | -                      | -1500                               |

## 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 <sup>2</sup> ) | Period of record               | Date           | Gage height (feet) | Dis-charge (ft <sup>3</sup> /s) |
| Savannah River basin |                                                    |                                                                                                                                                                                                                              |                                  |                                |                |                    |                                 |
| 02181800             | Little Panther Creek near Tallulah Falls, Ga.      | Lat 34°42'48", long 82°24'07", Habersham County, at culvert on U.S. Highway 441, 1.3 miles southwest of Tallulah Falls.                                                                                                      | 2.50                             | 1949, 1956-74, 1976            | 5-29-76        | 9.45               | 300                             |
| 02182000             | Panther Creek near Toccoa, Ga.                     | Lat 34°40'40", long 83°20'43", Stephens County, on left bank at Yonah Dam Settlement, 0.2 mile upstream from mouth, and 7 miles north of Toccoa.                                                                             | 32.5                             | 1927-42, 1943-71†, 1976        | 5-29-76        | 9.42               | 4,000                           |
| 02189020             | Indian Creek near Carnesville, Ga.                 | Lat 34°21'20", long 83°17'16", Franklin County, at culvert on State Highway 59, 3.2 miles west of Carnesville.                                                                                                               | 7.63                             | 1964-74, 1976                  | 5-29-76        | 9.94               | 3,150                           |
| 02189030             | Stephens Creek tributary at Carnesville, Ga.       | Lat 34°21'51", long 83°13'16", Franklin County, at culvert on State Highway 145, 0.9 mile southeast of Carnesville.                                                                                                          | 0.39                             | 1965-74, 1976                  | 5-29-76        | 5.04               | 150                             |
| 02191000             | North Fork Broad River near Carnesville, Ga.       | Lat 34°19'25", long 83°11'10", Franklin County, at bridge on State Highway 51, 1 mile downstream from Unawatti Creek, 3 miles upstream from confluence with Middle Fork Broad River, and 4.5 miles southeast of Carnesville. | 119                              | 1942-44†, 1954-69†, 1976       | 5-29-76        | 14.8               | 11,800                          |
| 02191280             | Mill Shoal Creek near Royston, Ga.                 | Lat 34°16'13", long 83°06'08", Hart County, at culvert on State Highway 17, 1.2 miles southeast of Royston.                                                                                                                  | 0.32                             | 1964-76                        | 5-29-76        | 3.93               | 106                             |
| *02191300            | Broad River above Carlton, Ga. <sup>h</sup> /      | Lat 34°04'24", long 83°00'12", Madison County, at State Highway 72, 2.8 miles northeast of Carlton.                                                                                                                          | 760                              | 1898-1912†, 1913-18g, 1920-76g | 3-30-76        | 26.8               | 26,000                          |
| 02191930             | Buffalo Creek near Lexington, Ga.                  | Lat 33°46'40", long 83°03'01", Oglethorpe County, at culvert on State Highway 22, 7 miles southeast of Lexington.                                                                                                            | 5.80                             | 1964-76                        | 5-29-76        | 6.75               | 845                             |
| 02192300             | Hog Fork Fishing Creek tributary near Tignall, Ga. | Lat 33°49'05", long 82°45'21", Wilkes County, at culvert on State Highway 17, 4.2 miles south of Tignall.                                                                                                                    | .097                             | 1959-76                        | 5-15-76        | 6.97               | 36                              |
| 02197190             | McBean Creek near McBean, Ga.                      | Lat 33°14'12", long 82°02'38", Richmond County, at State Highway 21, 5.5 miles west of McBean.                                                                                                                               | 41.4                             | 1963-76                        | 3-16-76        | 4.08               | 245                             |
| Ogeechee River basin |                                                    |                                                                                                                                                                                                                              |                                  |                                |                |                    |                                 |
| 02200100             | Little Ogeechee River at Hamburg, Ga.              | Lat 33°12'25", long 82°46'38", Washington County, at State Highway 248, at Hamburg.                                                                                                                                          | a55                              | 1951-71, 1973-76               | 3-16-76        | 4.31               | 517                             |

\* 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.

## Crest-stage partial-record stations--Continued

| Station No.                     | Station name                                  | Location                                                                                                                   | Drainage area (mi <sup>2</sup> ) | Period of record        | Date                          | Annual maximum       |                                 |
|---------------------------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------|-------------------------------|----------------------|---------------------------------|
|                                 |                                               |                                                                                                                            |                                  |                         |                               | Gage height (feet)   | Dis-charge (ft <sup>3</sup> /s) |
| Ogeechee River basin--Continued |                                               |                                                                                                                            |                                  |                         |                               |                      |                                 |
| 02200900                        | Big Creek near Louisville, Ga.                | Lat 32°59'00", long 82°21'23", Jefferson County, at State Highway 17, about 3.2 miles southeast of Louisville.             | 95.8                             | 1951-76                 | 3-16-76                       | 4.64                 | 472                             |
| 02200930                        | Ogeechee River tributary near Louisville, Ga. | Lat 32°55'20", long 82°18'49", Jefferson County, at culvert on State Highway 17, 8.5 miles southeast of Louisville.        | 14.2                             | 1965-76                 | 7-20-76                       | 3.78                 | 198                             |
| 02201350                        | Buckhead Creek near Waynesboro, Ga.           | Lat 32°58'21", long 82°07'15", Burke County, at State Highway 56, 10 miles southwest of Waynesboro.                        | a64                              | 1963-76                 | 3-16-76                       | 5.19                 | 327                             |
| 02201800                        | Richardson Creek near Millen, Ga.             | Lat 32°43'23", long 81°58'35", Jenkins County, at State Highway 67, 6 miles south of Millen.                               | a43                              | 1963-76                 | 7-20-76                       | 3.83                 | 342                             |
| 02202000                        | Ogeechee River at Scarboro, Ga.               | Lat 32°42'38", long 81°52'46", Jenkins County, at abandoned highway bridge at Scarboro, and 7.5 miles southeast of Millen. | a1,940                           | 1938-71†, 1972-76       | 3-24-76                       | 9.18                 | 7,720                           |
| 02202800                        | Canoochee Creek near Swainsboro, Ga.          | Lat 32°36'19", long 82°15'21", Emanuel County, at U.S. Highway 80, 4.8 miles east of Swainsboro.                           | a55                              | 1951-76                 | 3-16-76                       | 4.48                 | 330                             |
| 02202900                        | Fifteen Mile Creek near Metter, Ga.           | Lat 32°23'33", long 82°00'55", Candler County, at State Highway 46, 2.5 miles east of Metter.                              | 147                              | 1963-76                 | 6-21-76                       | 4.66                 | 769                             |
| 02202910                        | Ten Mile Creek tributary at Pulaski, Ga.      | Lat 32°23'18", long 81°58'17", Candler County, at culvert on State Highway 46, 0.8 mile west of Pulaski.                   | 1.14                             | 1965-76                 | 6-21-76                       | 5.16                 | 241                             |
| Altamaha River basin            |                                               |                                                                                                                            |                                  |                         |                               |                      |                                 |
| 02203600                        | South River at East Point, Ga.                | Lat 33°40'50", long 84°25'15", Fulton County, at culvert on Harland Drive at East Point.                                   | 1.49                             | 1964-69†, 1970-73, 1976 | 3-16-76                       | 7.82                 | 543                             |
| 02203800                        | South River at Atlanta, Ga.                   | Lat 33°40'46", long 84°18'30", DeKalb County, at Bouldercrest Drive at Atlanta.                                            | 41.5                             | 1951-76                 | 3-16-76                       | 11.88                | 9,560                           |
| 02203820                        | Sugar Creek near Atlanta, Ga.                 | Lat 33°41'41", long 84°18'15", DeKalb County, at culvert on Clifton Church Road near Atlanta.                              | 8.67                             | 1961, 1963-65, 1974-76  | 3-16-76                       | 9.38                 | 1,340                           |
| 02203835                        | Shoal Creek near Atlanta, Ga.                 | Lat 33°44'48", long 84°16'50", DeKalb County, at culvert on Line Street near Atlanta.                                      | 3.43                             | 1974-76                 | 4-4-74<br>6-10-75<br>3-16-76  | 5.42<br>4.84<br>6.03 | 778<br>699<br>854               |
| 02203845                        | Shoal Creek tributary near Atlanta, Ga.       | Lat 33°43'05", long 84°15'45", DeKalb County, at culvert on Glendale Drive near Atlanta.                                   | 0.84                             | 1974-76                 | 5-28-76                       | 5.27                 | 516                             |
| 02203870                        | Cobbs Creek near Atlanta, Ga.                 | Lat 33°43'44", long 84°14'17", DeKalb County, at culvert on Snapfinger Road near Atlanta.                                  | 3.68                             | 1963-66, 1974-76        | 4-4-74<br>8-27-75<br>3-16-76  | 4.99<br>5.18<br>5.79 | 707<br>764<br>947               |
| 02203884                        | Conley Creek near Forest Park, Ga.            | Lat 33°38'08", long 84°20'37", Clayton County, at culvert on Rock Cut Road near Forest Park.                               | 1.88                             | 1974-76                 | 7-26-74<br>6-10-75<br>7-27-76 | 7.38<br>5.44<br>7.27 | 855<br>540<br>836               |
| 02203900                        | South River near Atlanta, Ga.                 | Lat 33°39'58", long 84°13'29", DeKalb County, on Flakes Mill Road, 8 miles east of Atlanta city limits.                    | a99                              | 1951-76                 | 3-16-76                       | 19.89                | 11,000                          |

† Operated as a continuous-record gaging station.

a Approximately.



## Crest-stage partial-record stations--Continued

| Station No.                     | Station name                                | Location                                                                                                                               | Drainage area (mi <sup>2</sup> ) | Period of record                  | Date    | Annual maximum     |                                 |
|---------------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------|---------|--------------------|---------------------------------|
|                                 |                                             |                                                                                                                                        |                                  |                                   |         | Gage height (feet) | Dis-charge (ft <sup>3</sup> /s) |
| Altamaha River basin--Continued |                                             |                                                                                                                                        |                                  |                                   |         |                    |                                 |
| 02211300                        | Towaliga River near Jackson, Ga.            | Lat 33°15'50", long 84°04'17", Butts County, at bridge on State Highway 16, 6.5 miles west of Jackson.                                 | a105                             | 1961-71†, 1972-76                 | 3-16-76 | 15.36              | 5,820                           |
| 02213470                        | Tobesofkee Creek above Macon, Ga.           | Lat 32°51'15", long 83°50'22", Bibb County, 800 ft upstream from bridge on State Highway 74, 8.0 miles west of Macon.                  | 156                              | 1968-71†, 1972-76                 | 5-29-76 | 11.29              | 4,900                           |
| *02214000                       | Echeconnee Creek near Macon, Ga.            | Lat 32°45'54", long 83°50'22", Crawford-Bibb Counties, at county road 13 miles southwest of Macon.                                     | 147                              | 1938-43†, 1951-76                 | 5-29-76 | 10.17              | 3,630                           |
| 02214500                        | Big Indian Creek at Perry, Ga.              | Lat 32°27'20", long 83°44'21", Houston County, at municipal waterworks at Perry, and 300 ft downstream from bridge on U.S. Highway 41. | 108                              | 1944-71†, 1972-76                 | 5-15-76 | 7.82               | 1,850                           |
| 02215000                        | Ocmulgee River at Hawkinsville, Ga.         | Lat 32°16'50", long 83°27'40", Pulaski County, at U.S. Highway 341, at Hawkinsville, and at mile 135.1.                                | a3,800                           | 1877g, 1909-76g                   | 3-22-76 | 26.4               | 34,400                          |
| 02215245                        | Folsom Creek tributary near Rochelle, Ga.   | Lat 32°00'15", long 83°25'58", Wilcox County, at culvert on State Highway 233, 4 miles north of Rochelle.                              | 1.44                             | 1965-76                           | 5-1-76  | 2.08               | 52                              |
| *02216000                       | Little Ocmulgee River at Towns, Ga.         | Lat 32°00'28", long 82°45'10", Telfair County, at State Highway 134, at Towns.                                                         | 329                              | 1925, 1929, 1938-46†, 1948-76     | 5-16-76 | 10.41              | 1,290                           |
| 02217000                        | Allen Creek at Talmo, Ga.                   | Lat 34°11'34", long 83°43'11", Jackson County, 400 ft upstream from bridge on State Highway 11, and 0.5 mile north of Talmo.           | 17.3                             | 1952-71†, 1972-74, 1976           | 5-29-76 | 13.5               | 4,600                           |
| *02217200                       | Middle Oconee River near Jefferson, Ga.     | Lat 34°05'46", long 83°36'23", Jackson County, at State Highway 11, 2.2 miles southwest of Jefferson.                                  | 128                              | 1951-65, 1976                     | 5-29-76 | 15.0               | 11,000                          |
| 02217250                        | Buffalo Creek tributary near Jefferson, Ga. | Lat 34°05'00", long 83°38'01", Jackson County, at culvert on State Highway 11, 4 miles southwest of Jefferson.                         | 0.39                             | 1965-74, 1976                     | 5-29-76 | 6.63               | 318                             |
| 02217400                        | Mulberry River tributary near Winder, Ga.   | Lat 34°03'53", long 83°39'45", Jackson County, at culvert on State Highway 11, 6 miles northeast of Winder.                            | 2.68                             | 1965-76                           | 5-29-76 | 4.43               | 785                             |
| 02217660                        | Little Curry Creek near Jefferson, Ga.      | Lat 34°08'25", long 83°32'09", Jackson County, at culvert on State Highway 15, 2.8 miles northeast of Jefferson.                       | 0.87                             | 1965-74, 1976                     | 5-29-76 | 6.03               | 558                             |
| 02217900                        | North Oconee River at Athens, Ga.           | Lat 33°56'55", long 83°22'06", Clarke County, at Cemetary Bridge in Athens, 0.5 mile below bridge on U.S. Highway 78.                  | 283                              | 1929-31†, 1945-49†, 1950-72, 1976 | 5-29-76 | 21.0               | 7,470                           |
| 02218450                        | Town Creek near Greensboro, Ga.             | Lat 33°38'29", long 83°13'36", Greene County, at State Highway 15, 5 miles northwest of Greensboro.                                    | 11.9                             | 1964-76                           | 3-16-76 | 6.90               | 470                             |
| 02221000                        | Murder Creek near Monticello, Ga.           | Lat 33°24'56", long 83°39'43", Jasper County, 350 ft upstream from bridge on State Highway 229, and 8 miles north of Monticello.       | a24                              | 1952-71†, 1972-76                 | 5-15-76 | 7.84               | 2,320                           |

\* 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

|                                 |                                                    |                                                                                                                       |                                  |                          | Annual maximum |                    |                                 |
|---------------------------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------|----------------|--------------------|---------------------------------|
| Station No.                     | Station name                                       | Location                                                                                                              | Drainage area (mi <sup>2</sup> ) | Period of record         | Date           | Gage height (feet) | Dis-charge (ft <sup>3</sup> /s) |
| Altamaha River basin--Continued |                                                    |                                                                                                                       |                                  |                          |                |                    |                                 |
| 02223200                        | Commissioner Creek at Toombsboro, Ga.              | Lat 32°49'53", long 83°04'43", Wilkinson County, at State Highway 112, at Toombsboro.                                 | 191                              | 1928, or 29, 1949-76     | 5-15-76        | 16.71              | 2,260                           |
| 02224500                        | Oconee River near Mount Vernon, Ga.                | Lat 32°11'28", long 82°38'00", Montgomery County, at U.S. Highway 280, 2 miles west of Mount Vernon, at at mile 28.7. | a5,110                           | 1936, 1938-55†, 1956-75g | 3-22-75        | 20.35              | 46,900                          |
| 02225150                        | Ohoossee River near Wrightsville, Ga.              | Lat 32°42'50", long 82°45'20", Johnson County, at U.S. Highway 319, 2.5 miles west of Wrightsville.                   | a55                              | 1963-76                  | --             | --                 | <300                            |
| 02225200                        | Little Ohoossee River near Wrightsville, Ga.       | Lat 32°47'20", long 82°33'02", Johnson County, at U.S. Highway 319, 10 miles northeast of Wrightsville.               | a63                              | 1951-76                  | 3-16-76        | 5.52               | 291                             |
| 02225330                        | Beaver Creek near Cobbtown, Ga.                    | Lat 32°16'52', long 82°11'27", Tattnall County, at culvert on State Highway 152, 3.2 miles west of Cobbtown.          | 9.58                             | 1965-76                  | 6-21-76        | 4.67               | 284                             |
| 02225350                        | Pendleton Creek tributary No. 2 near Soperton, Ga. | Lat 32°25'35", long 82°29'52", Treutlen County, at culvert on State Highway 86, 6.5 miles northeast of Soperton.      | 1.68                             | 1965-76                  | 6-21-76        | b1.94              | 55                              |
| 02225850                        | Beards Creek near Glennville, Ga.                  | Lat 31°55'26", long 81°52'58", Tattnall County, at State Highway 144, 3 miles east of Glennville.                     | 74.4                             | 1966-76                  | 8-3-76         | 6.54               | 1,670                           |
| 02226030                        | Doctors Creek near Ludowici, Ga.                   | Lat 31°44'07", long 81°42'08", Long County, at State Highway 38, 3 miles northeast of Ludowici.                       | a33                              | 1966-76                  | 5-15-76        | 7.83               | (†)                             |
| Satilla River basin             |                                                    |                                                                                                                       |                                  |                          |                |                    |                                 |
| 02226150                        | Satilla River tributary near Willacoochee, Ga.     | Lat 31°27'24", long 83°03'02", Coffee County, at culvert on State Highway 149, 8.5 miles north of Willacoochee.       | 6.38                             | 1965-76                  | 5-15-76        | 4.90               | 545                             |
| *02226200                       | Satilla River near Douglas, Ga.                    | Lat 31°24'45", long 82°51'01", Coffee County, at U.S. Highway 441, 6.5 miles south of Douglas.                        | a235                             | 1948, 1951-76            | 5-16-76        | 6.81               | 1,870                           |
| 02226580                        | Big Creek near Hoboken, Ga.                        | Lat 31°10'28", long 82°11'17", Brantley County, at State Highway 50, 2.5 miles west of Hoboken.                       | a49                              | 1966-76                  | 3-16-76        | 7.28               | (†)                             |
| 02227000                        | Hurricane Creek near Alma, Ga.                     | Lat 31°34'00", long 82°27'50", Bacon County, at bridge on U.S. Highway 1, 1.5 miles north of Alma.                    | 150                              | 1952-71‡, 1972-76        | 5-15-76        | 6.82               | 1,580                           |
| *02227200                       | Little Hurricane Creek below Alma, Ga.             | Lat 31°25'25", long 82°25'59", Bacon County, at State Highway 4, 8.5 miles south of Alma.                             | 111                              | 1948-76                  | 5-15-76        | 6.46               | 1,270                           |
| *02227400                       | Big Satilla Creek near Alma, Ga.                   | Lat 31°39'24", long 82°25'55", Bacon County, at State Highway 4, 8.2 miles north of Alma.                             | 112                              | 1948-76                  | 1-28-76        | 5.87               | 1,320                           |
| *02227430                       | Little Satilla Creek at Odum, Ga.                  | Lat 31°40'00", long 82°02'23", Wayne County, at State Highway 27 at Odum, 10 miles northwest of Jesup.                | a49                              | 1949-76                  | 1-28-76        | 6.08               | 886                             |

\* Also a low-flow partial-record station.

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

a Approximately.

b Estimated based on downstream culvert gage.

## Crest-stage partial-record stations--Continued

|                      |                                                   |                                                                                                                   |                                  |                     |         | Annual maximum     |                                 |
|----------------------|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------|---------|--------------------|---------------------------------|
| Station No.          | Station name                                      | Location                                                                                                          | Drainage area (mi <sup>2</sup> ) | Period of record    | Date    | Gage height (feet) | Dis-charge (ft <sup>3</sup> /s) |
| Suwannee River basin |                                                   |                                                                                                                   |                                  |                     |         |                    |                                 |
| *02314600            | Suwannoochee Creek at Du Pont, Ga.                | Lat 30°59'09", long 82°52'50", Clinch County, at U.S. Highway 84 at Du Pont.                                      | 143                              | 1930, 1948, 1952-76 | 5-16-76 | 6.94               | 696                             |
| 02314700             | Suwannoochee Creek near Thelma, Ga.               | Lat 30°49'18", long 82°50'28", Clinch County, at State Highway 187, 1.2 miles west of Thelma.                     | 232                              | 1929, 1963-76       | 5-18-76 | 6.66               | 872                             |
| *02315700            | Alapaha River at Rebecca, Ga.                     | Lat 31°48'55", long 83°28'26", Ben Hill County, at State Highway 90, 1 mile east of Rebecca.                      | 112                              | 1961-76             | 5-16-76 | 4.71               | 1,320                           |
| *02315900            | Deep Creek near Ashburn, Ga.                      | Lat 31°43'49", long 83°35'00", Turner County, at State Highway 112, 4.5 miles east of Ashburn.                    | 137                              | 1951-76             | 5-16-76 | 11.69              | 2,400                           |
| *02316200            | Willacoochee River near Ocilla, Ga.               | Lat 31°30'06", long 83°09'43", Irwin County, at State Highway 90, 8 miles southeast of Ocilla.                    | a90                              | 1948, 1950-76       | 5-16-76 | 6.40               | 910                             |
| *02317700            | Withlacoochee River near Nashville, Ga.           | Lat 31°11'54", long 83°16'21", Berrien County, at State Highway 87, 1.5 miles southwest of Nashville.             | 132                              | 1948, 1951-76       | 5-25-76 | 9.80               | 2,230                           |
| 02317710             | Withlacoochee River tributary near Nashville, Ga. | Lat 31°11'54", long 83°17'17", Berrien County, at culvert on State Highway 76, 2.2 miles southwest of Nashville.  | .86                              | 1960-76             | 5-23-76 | 4.19               | 134                             |
| 02317775             | Daniels Creek near Ashburn, Ga.                   | Lat 31°40'40", long 83°45'06", Turner County, at culvert on State Highway 32, 6.2 miles west of Ashburn.          | 1.11                             | 1965-76             | 5-15-76 | 2.17               | 96                              |
| 02317780             | Lime Sink Creek near Sycamore, Ga.                | Lat 31°36'20", long 83°40'31", Turner County, at culvert on secondary road 1181, 4.5 miles southwest of Sycamore. | .68                              | 1965-76             | 7-20-76 | 3.06               | 81                              |
| 02317810             | Little River tributary No. 2 near Tifton, Ga.     | Lat 31°25'30", long 83°34'23", Tift County, at culvert on secondary road 546, 4 miles southwest of Tifton.        | .47                              | 1965-76             | 5-24-76 | 1.55               | 28                              |
| 02317830             | Little River near Lenox, Ga.                      | Lat 31°15'15", long 83°30'32", Cook County, at county highway bridge, 2.5 miles west of Lenox.                    | a208                             | 1968-71†, 1972-76   | 5-17-76 | 12.50              | 2,600                           |
| 02317870             | Warrior Creek near Sumner, Ga.                    | Lat 31°21'45", long 83°46'11", Worth County, at county road, 10.8 miles south of Sumner.                          | a109                             | 1966-76             | 5-25-76 | 13.57              | 3,100                           |
| *02317900            | Ty Ty Creek at Ty Ty, Ga.                         | Lat 31°28'22", long 83°39'47", Tift County, at U.S. Highway 82, 1 mile west of Ty Ty.                             | a47                              | 1948, 1951-76       | 5-15-76 | 5.81               | 746                             |
| 02317980             | Little River near Sparks, Ga.                     | Lat 31°11'34", long 83°31'22", Cook County, at proposed bridge site on county highway, 5.5 miles west of Sparks.  | 555                              | 1948, 1961-76       | 5-25-76 | 11.83              | 6,320                           |
| 02318600             | Okapilco Creek near Berlin, Ga.                   | Lat 31°02'48", long 83°37'02", Colquitt County, on county road, 1 mile south of Berlin.                           | 101                              | 1963-76             | 5-24-76 | 12.37              | 5,210                           |
| Aucilla River basin  |                                                   |                                                                                                                   |                                  |                     |         |                    |                                 |
| 02326200             | Aucilla River near Boston, Ga.                    | Lat 30°46'44", long 83°48'12", Thomas County, at bridge on State Highway 133, 1.2 miles south of Boston.          | a81                              | 1962-76             | 5-24-76 | 8.26               | 3,160                           |

\* 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 <sup>2</sup> ) | Period of record       | Date                                    | Gage height (feet)           | Dis-charge (ft <sup>3</sup> /s) |
| Ochlockonee River basin  |                                                           |                                                                                                              |                                  |                        |                                         |                              |                                 |
| *02327200                | Ochlockonee River at Moultrie, Ga.                        | Lat 31°10'58", long 83°48'32", Colquitt County, at State Highway 37, at Moultrie.                            | a96                              | 1948, 1951-76          | 5-17-76                                 | 7.54                         | 1,370                           |
| 02327350                 | Ochlockonee River tributary near Coolidge, Ga.            | Lat 31°01'33", long 83°57'32", Thomas County, at culvert on State Highway 202, 5.5 miles west of Coolidge.   | 1.81                             | 1965-76                | 5-16-76                                 | 2.90                         | 276                             |
| *02327700                | Barnetts Creek near Thomasville, Ga.                      | Lat 30°54'18", long 84°04'34", Grady County, at county road, 7.5 miles north-west of Thomasville.            | 104                              | 1951-76                | 5-26-76                                 | 11.99                        | 1,840                           |
| *02327900                | Wolf Creek near Whigham, Ga.                              | Lat 30°53'36", long 84°17'26", Grady County, at U.S. Highway 84, 2.2 miles northeast of Whigham.             | a19                              | 1948, 1951-76          | 5-26-76                                 | 7.04                         | (†)                             |
| 02328000                 | Tired Creek near Cairo, Ga.                               | Lat 30°51'54", long 84°15'46", Grady County, 140 ft upstream from highway bridge, and 3 miles west of Cairo. | a60                              | 1944-71†, 1972-76      | 5-26-76                                 | 7.66                         | 1,920                           |
| Apalachicola River basin |                                                           |                                                                                                              |                                  |                        |                                         |                              |                                 |
| 02336080                 | North Fork Peach-tree Creek near Chamblee, Ga.            | Lat 33°51'43", long 84°17'13", DeKalb County, at culvert on Shallowford Road near Chamblee.                  | 19.1                             | 1974-76                | 8-7-74<br>3-13-75<br>3-16-76            | 11.85<br>15.27<br>12.56      | 2,300<br>3,050<br>2,510         |
| 02336090                 | North Fork Peach-tree Creek tribu-tary near Chamblee, Ga. | Lat 33°50'53", long 84°17'57", DeKalb County, at culvert on Meadowcliff Drive, near Chamblee.                | 5.29                             | 1961, 1963-64, 1974-76 | 3-16-76                                 | 9.08                         | 1,420                           |
| 02336102                 | North Fork Peach-tree Creek tribu-tary near Atlanta, Ga.  | Lat 33°51'20", long 84°19'19", DeKalb County, at culvert on Drew Valley Road, near Atlanta.                  | 2.19                             | 1974-76                | 8-7-74<br>3-13-75<br>3-16-76<br>3-31-76 | 7.11<br>7.97<br>5.94<br>5.94 | 890<br>1,080<br>633<br>633      |
| 02336150                 | South Fork Peach-tree Creek at Clarkston, Ga.             | Lat 33°48'51", long 84°14'38", DeKalb County, at culvert on Montreal Road, at Clarkston.                     | 5.29                             | 1961, 1963-64, 1974-76 | 3-16-76                                 | 9.08                         | 1,420                           |
| 02336180                 | South Fork Peach-tree Creek near Decatur, Ga.             | Lat 33°48'20", long 84°17'52", DeKalb County, at bridge on Willivee Drive, near Decatur.                     | 11.0                             | 1961, 1963-64, 1974-76 | 3-16-76                                 | 11.95                        | 1,630                           |
| 02336238                 | South Fork Peachtree Creek tributary near Atlanta, Ga.    | Lat 33°47'11", long 84°20'29", DeKalb County, at culvert on East Rock Springs Road, near Atlanta.            | 0.90                             | 1974-76                | 8-7-74<br>7-23-75<br>3-16-76            | 4.54<br>6.44<br>3.88         | 588<br>1,140<br>486             |
| 02336325                 | Nancy Creek tribu-tary near Chamblee, Ga.                 | Lat 33°54'22", long 84°18'21", DeKalb County, at culvert on Plantation Lane, near Chamblee.                  | 1.35                             | 1974-76                | 7-27-76                                 | 6.15                         | 735                             |
| 02336690                 | South Utoy Creek tributary at East Point, Ga.             | Lat 33°42'09", long 84°26'57", Fulton County, at culvert on Fort Valley Drive, at East Point.                | 0.52                             | 1974-76                | 8-18-74<br>3-13-75<br>3-16-76           | 4.07<br>4.73<br>4.47         | 165<br>213<br>195               |
| 02336697                 | South Utoy Creek tributary at East Point, Ga.             | Lat 33°41'51", long 84°27'33", Fulton County, at culvert on Woodberry Avenue, at East Point.                 | .21                              | 1974-76                | 3-16-76                                 | 3.43                         | 82                              |
| 02336700                 | South Utoy Creek tributary at East Point.                 | Lat 33°41'25", long 84°28'05", Fulton County, at culvert on Headland Drive, at East Point.                   | .75                              | 1964-69†, 1970-76      | 5-28-76                                 | 4.50                         | 298                             |
| 02336705                 | South Utoy Creek at Atlanta, Ga.                          | Lat 33°42'57", long 84°28'41", Fulton County, at culvert on Adams Drive, at Atlanta.                         | 8.80                             | 1974-76                | 4-4-74<br>1-10-75<br>3-16-76            | 6.67<br>6.46<br>7.73         | 2,180<br>2,080<br>2,600         |

\* Also a low-flow partial-record station.

† 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 <sup>2</sup> ) | Period of record           | Annual maximum                                                                                                                                           |                                                                                                                            |                                                                                                                                         |
|-------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
|                                     |                                                           |                                                                                                                                             |                                  |                            | Date                                                                                                                                                     | Gage height (feet)                                                                                                         | Dis-charge (ft <sup>3</sup> /s)                                                                                                         |
| Apalachicola River basin--Continued |                                                           |                                                                                                                                             |                                  |                            |                                                                                                                                                          |                                                                                                                            |                                                                                                                                         |
| 02337100                            | North Fork Camp Creek at Atlanta, Ga.                     | Lat 33°39'40", long 84°30'40", Fulton County, at bridge on Redwine Road, at Atlanta.                                                        | 5.25                             | 1965-69†, 1970-76          | 3-16-76                                                                                                                                                  | 10.23                                                                                                                      | 1,140                                                                                                                                   |
| *02337400                           | Dog River near Douglasville, Ga.                          | Lat 33°39'36", long 84°51'41", Douglas County, at county road, 2.2 miles north of Fair Play.                                                | a43                              | 1951-76                    | 12-21-51<br>3-16-56<br>4-5-57<br>5-31-59<br>12-12-61<br>3-13-63<br>4-6-64<br>12-26-64<br>2-13-66<br>8-25-67<br>3-19-70<br>12-31-73<br>3-14-75<br>3-16-76 | 12.81<br>14.36<br>12.23<br>13.92<br>11.39<br>11.40<br>11.77<br>12.80<br>11.61<br>11.74<br>15.12<br>13.20<br>13.98<br>13.95 | c4,610<br>c6,680<br>c4,080<br>c5,990<br>c3,420<br>c3,430<br>c3,720<br>c4,600<br>c3,590<br>c3,690<br>c8,000<br>c5,040<br>c6,070<br>6,030 |
| 02341600                            | Juniper Creek near Geneva, Ga.                            | Lat 32°31'41", long 84°34'41", Talbot County, at State Highway 41, 1.8 miles south of Geneva.                                               | 47.4                             | 1963-76                    | 3-14-76                                                                                                                                                  | 6.58                                                                                                                       | 552                                                                                                                                     |
| 02343200                            | Pataula Creek near Lumpkin, Ga.                           | Lat 31°56'03", long 84°48'12", Stewart County, at bridge on U.S. Highway 27, 8 miles south of Lumpkin.                                      | a70                              | 1950-58, 1959-71†, 1972-76 | 8-8-76                                                                                                                                                   | 5.31                                                                                                                       | 1,170                                                                                                                                   |
| 02343225                            | Pataula Creek near Georgetown, Ga.                        | Lat 31°49'06", long 84°57'27", Quitman County, at bridge on U.S. Highway 82 (State Highway 50), 11 miles east of Georgetown.                | 295                              | 1951-76                    | 5-15-76                                                                                                                                                  | 4.53                                                                                                                       | 1,990                                                                                                                                   |
| 02346193                            | Scott Creek near Talbotton, Ga.                           | Lat 32°39'48", long 84°36'06", Talbot County, at culvert on county road, 3.7 miles west of Talbotton.                                       | 3.36                             | 1969-76                    | 3-16-76                                                                                                                                                  | 5.94                                                                                                                       | 548                                                                                                                                     |
| 02346210                            | Kimbrough Creek near Talbotton, Ga.                       | Lat 32°41'19", long 84°30'48", Talbot County, at culvert on State Highway 22, 1.8 miles northeast of Talbotton.                             | 6.62                             | 1969-76                    | 1-28-76                                                                                                                                                  | 2.28                                                                                                                       | 314                                                                                                                                     |
| 02346217                            | Celeoth Creek near Manchester, Ga.                        | Lat 32°49'20", long 84°36'16", Talbot County, at culvert on county road, 2.2 miles south of Manchester.                                     | 2.82                             | 1969-76                    | 3-16-76                                                                                                                                                  | 1.85                                                                                                                       | 185                                                                                                                                     |
| *02348300                           | Patsiliga Creek near Reynolds, Ga.                        | Lat 32°34'20", long 84°05'27", Taylor County, at State Highway 128, 1 mile north of Reynolds.                                               | 139                              | 1963-76                    | 7-1-76                                                                                                                                                   | 7.40                                                                                                                       | 1,400                                                                                                                                   |
| 02349000                            | Whitewater Creek below Rambulette Creek, near Butler, Ga. | Lat 32°28'02", long 84°15'59", Taylor County, on left bank 500 ft downstream from bridge on U.S. Highway 19, and 6.5 miles south of Butler. | 93.4                             | 1944-71†, 1972-76          | 6-4-76                                                                                                                                                   | 5.27                                                                                                                       | 898                                                                                                                                     |
| 02351500                            | Muckalee Creek near Americus, Ga.                         | Lat 32°04'59", long 84°15'29", Sumter County, at State Highway 30, 1 mile west of Americus.                                                 | 140                              | 1963-76                    | 5-16-76                                                                                                                                                  | 7.81                                                                                                                       | 1,710                                                                                                                                   |
| *02351800                           | Muckaloochee Creek at Smithville, Ga.                     | Lat 31°54'19", long 84°14'44", Lee County, at State Highway 118, at Smithville.                                                             | a47                              | 1943, 1948, 1950-76        | 1976                                                                                                                                                     | --                                                                                                                         | <118                                                                                                                                    |
| 02353100                            | Ichawaynochaway Creek near Dawson, Ga.                    | Lat 31°46'18", long 84°33'45", Terrell County, at State Highway 50, 7 miles west of Dawson.                                                 | 118                              | 1963-76                    | 5-16-76                                                                                                                                                  | 8.17                                                                                                                       | 1,500                                                                                                                                   |

\* 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

|                                     |                                                                                      |                                                                                                               |                                  |                                            |                                                                                                           | Annual maximum                                                                         |                                                                                                 |
|-------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Station No.                         | Station name                                                                         | Location                                                                                                      | Drainage area (mi <sup>2</sup> ) | Period of record                           | Date                                                                                                      | Gage height (feet)                                                                     | Dis-charge (ft <sup>3</sup> /s)                                                                 |
| Apalachicola River basin--Continued |                                                                                      |                                                                                                               |                                  |                                            |                                                                                                           |                                                                                        |                                                                                                 |
| 02353400                            | Pachitla Creek near Edison, Ga.                                                      | Lat 31°33'18", long 84°40'51", Calhoun County, at bridge on State Highway 37, 3.5 miles east of Edison.       | 188                              | 1950-59<br>1960-71†, 1972-76               | 1-26-76                                                                                                   | 5.94                                                                                   | 778                                                                                             |
| 02356000                            | Flint River at Bainbridge, Ga.                                                       | Lat 30°54'41", long 84°34'48", Decatur County, at bridge on U.S. Highway 84, at Bainbridge.                   | a7,570                           | 1908-13‡, 1929-71‡, 1972-76                | 5-19-76                                                                                                   | 22.79                                                                                  | 24,600                                                                                          |
| Mobile River basin                  |                                                                                      |                                                                                                               |                                  |                                            |                                                                                                           |                                                                                        |                                                                                                 |
| 02381300                            | Fir Creek near Ellijay, Ga.                                                          | Lat 34°41'06", long 84°37'23", Gilmer County, at culvert on State Highway 282, 8 miles west of Ellijay.       | 1.35                             | 1966-76                                    | 5-15-76                                                                                                   | 2.29                                                                                   | 75                                                                                              |
| *02384000                           | Conasauga River near Tennga, Ga.                                                     | Lat 35°00'34", long 84°44'02", Polk County, Tenn., at U.S. Highway 411, 1.5 miles north of Tennga.            | 108                              | 1930-31‡, 1938, 1940-43, 1944-47‡, 1951-76 | 7-5-76                                                                                                    | 13.90                                                                                  | 6,100                                                                                           |
| 02384500                            | Conasauga River near Eton, Ga.                                                       | Lat 34°49'40", long 84°51'03", Murray County, at State Highway 286, 5 miles west of Eton.                     | 253                              | 1954-58, 1963-76                           | 7-5-76                                                                                                    | 9.99                                                                                   | 4,920                                                                                           |
| 02384600                            | Mill Creek tributary near Eton, Ga.                                                  | Lat 34°49'38", long 84°48'58", Murray County, at culvert on State Highway 286, 3 miles west of Eton.          | 4.28                             | 1965-76                                    | 10-2-75                                                                                                   | 5.64                                                                                   | 412                                                                                             |
| 02387300                            | Dead Mans Branch near Resaca, Ga.                                                    | Lat 34°35'44", long 84°52'11", Gordon County, at culvert on State Highway 225, 4.2 miles east of Resaca.      | .17                              | 1965-76                                    | 5-15-76                                                                                                   | 5.45                                                                                   | 139                                                                                             |
| 02388200                            | Storey Mill Creek (formerly published as Moss Creek tributary) near Summerville, Ga. | Lat 34°25'39", long 85°16'03", Chattooga County, at culvert on county road, 6 miles southeast of Summerville. | 6.02                             | 1966-76                                    | 11-5-75                                                                                                   | 8.66                                                                                   | 1,450                                                                                           |
| 02388900                            | Etowah River near Dahlonega, Ga.                                                     | Lat 34°30'56", long 84°03'40", Lumpkin County, at bridge on State Highway 9, 4.5 miles west of Dahlonega.     | a68                              | 1950-76                                    | 3-16-76                                                                                                   | 9.74                                                                                   | 1,860                                                                                           |
| *02394400                           | Pumpkinvine Creek below Dallas, Ga.                                                  | Lat 33°54'57", long 84°52'40", Paulding County, at State Highway 6, 2.2 miles west of Dallas.                 | a40                              | 1951-76                                    | 1-26-76                                                                                                   | 14.64                                                                                  | 2,860                                                                                           |
| *02411900                           | Tallapoosa River at Tallapoosa, Ga.                                                  | Lat 33°46'27", long 85°18'00", Haralson County, at State Highway 100, 2 miles north of Tallapoosa.            | 237                              | 1936, 1949, 1951-76                        | 3-16-76                                                                                                   | 22.27                                                                                  | 8,010                                                                                           |
| *02413200                           | Little Tallapoosa River near Bowdon, Ga.                                             | Lat 33°30'48", long 85°14'03", Carroll County, at State Highway 5, 2.2 miles southeast of Bowdon.             | a210                             | 1949-76g                                   | 3-16-76                                                                                                   | 20.00                                                                                  | 7,000                                                                                           |
| Tennessee River basin               |                                                                                      |                                                                                                               |                                  |                                            |                                                                                                           |                                                                                        |                                                                                                 |
| *03567200                           | West Chickamauga Creek near Kensington, Ga.                                          | Lat 34°48'10", long 85°20'52", Walker County, at State Highway 143, 2.5 miles northeast of Kensington.        | 73.0                             | 1950-76                                    | 9-7-50<br>3-11-52<br>1-16-54<br>12-12-61<br>4-30-63<br>3-15-64<br>3-26-65<br>2-5-71<br>5-14-72<br>5-15-76 | 15.70<br>16.60<br>15.40<br>16.40<br>16.70<br>16.69<br>16.37<br>12.32<br>13.93<br>11.83 | c6,480<br>c8,070<br>c5,990<br>c7,600<br>c8,200<br>c8,180<br>c7,540<br>c2,370<br>c3,630<br>2,080 |

\* Also a low-flow partial-record station.

† Operated as a continuous-record gaging station.

a Approximately.

c Revised.

g Maximum gage height from graph based on gage readings.

## DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

401

## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1976

| Stream                | Tributary to           | Location                                                                                                                                                               | Drainage<br>area<br>(mi <sup>2</sup> ) | Measured<br>previously<br>(water<br>years) | Measurements |                                   |
|-----------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------|--------------|-----------------------------------|
|                       |                        |                                                                                                                                                                        |                                        |                                            | Date         | Discharge<br>(ft <sup>3</sup> /s) |
| Savannah River basin  |                        |                                                                                                                                                                        |                                        |                                            |              |                                   |
| Scott Creek           | Stekoa Creek           | Lat 34°52'41", long 83°24'21", Rabun<br>County, at Marsengille Drive, at<br>Clayton                                                                                    | 6.37                                   |                                            | 5-28-76      | +2020                             |
| Altamaha River basin  |                        |                                                                                                                                                                        |                                        |                                            |              |                                   |
| Pond Fork             | Middle Oconee River    | Lat 34°13'57", long 83°42'39", Hall<br>County, at culvert on county road,<br>3.4 mi north of Talmo.                                                                    | 5.31                                   |                                            | 5-28-76      | +2140                             |
| Tennessee River basin |                        |                                                                                                                                                                        |                                        |                                            |              |                                   |
| Betty Creek           | Little Tennessee River | Lat 34°59'22", long 83°26'50", Rabun<br>County, at bridge on county road, 0.3<br>mi south of Georgia-North Carolina<br>State line, and 3.7 mi northwest of<br>Dillard. | 8.05                                   |                                            | 5-28-76      | +1810                             |

† Peak flow.



## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

INSTANTANEOUS SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SUS-<br>PENDE<br>SEDI-<br>MENT<br>(MG/L) | SUS-<br>PENDE<br>SEDI-<br>MENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|------|------|-----------------------------------------------|------------------------------------------|-------------------------------------------------------------|
|------|------|-----------------------------------------------|------------------------------------------|-------------------------------------------------------------|

## 02177000 - CHATTOOGA RIVER NEAR CLAYTON, GA. (LAT 34 48 50 LONG 083 18 22)

|            |      |      |    |     |
|------------|------|------|----|-----|
| OCT , 1975 |      |      |    |     |
| 21...      | 1615 | 1060 | 13 | 37  |
| DEC        |      |      |    |     |
| 03...      | 1630 | 775  | 8  | 17  |
| MAR , 1976 |      |      |    |     |
| 10...      | 1200 | 658  | 16 | 28  |
| MAY        |      |      |    |     |
| 19...      | 0830 | 1510 | 33 | 135 |
| AUG        |      |      |    |     |
| 10...      | 1600 | 456  | 4  | 4.9 |

## 02191200 - HUDSON RIVER AT HOMER, GA. (LAT 34 20 15 LONG 083 29 17)

|            |      |      |     |      |
|------------|------|------|-----|------|
| APR , 1976 |      |      |     |      |
| 01...      | 1125 | 1570 | 255 | 1080 |

## 02192000 - BROAD RIVER NEAR BELL, GA. (LAT 33 58 27 LONG 082 46 12)

|            |      |      |    |     |
|------------|------|------|----|-----|
| OCT , 1975 |      |      |    |     |
| 15...      | 1210 | 1220 | 39 | 128 |
| DEC        |      |      |    |     |
| 01...      | 1335 | 1400 | 33 | 125 |
| JAN , 1976 |      |      |    |     |
| 19...      | 1350 | 1470 | 34 | 135 |
| MAR        |      |      |    |     |
| 10...      | 1540 | 2400 | 72 | 467 |
| APR        |      |      |    |     |
| 12...      | 1430 | 1860 | 51 | 256 |
| MAY        |      |      |    |     |
| 24...      | 1345 | 1440 | 55 | 214 |
| JUL        |      |      |    |     |
| 08...      | 1300 | 2260 | 85 | 519 |
| AUG        |      |      |    |     |
| 19...      | 1345 | 771  | 52 | 108 |

## 02202500 - OGEECHEE RIVER NEAR EDEN, GA. (LAT 32 11 29 LONG 081 24 58)

|            |      |      |    |     |
|------------|------|------|----|-----|
| OCT , 1975 |      |      |    |     |
| 02...      | 0925 | 1430 | 8  | 31  |
| NOV        |      |      |    |     |
| 11...      | 1005 | 698  | 11 | 21  |
| DEC        |      |      |    |     |
| 10...      | 0910 | 1030 | 4  | 11  |
| 30...      | 1130 | 1660 | 4  | 18  |
| FEB , 1976 |      |      |    |     |
| 04...      | 0945 | 4540 | 6  | 74  |
| 18...      | 1220 | 2790 | 13 | 98  |
| 24...      | 1430 | 2200 | 10 | 59  |
| MAR        |      |      |    |     |
| 09...      | 1510 | 1760 | 3  | 14  |
| APR        |      |      |    |     |
| 07...      | 0900 | 2390 | 8  | 52  |
| 13...      | 1545 | 1640 | 9  | 40  |
| 28...      | 1000 | 827  | 4  | 8.9 |
| MAY        |      |      |    |     |
| 19...      | 0945 | 1210 | 12 | 39  |
| JUN        |      |      |    |     |
| 08...      | 0855 | 3140 | 9  | 76  |
| 15...      | 1200 | 2780 | 15 | 113 |
| JUL        |      |      |    |     |
| 05...      | 1435 | 3170 | 7  | 60  |
| 21...      | 1350 | 2590 | 7  | 49  |
| AUG        |      |      |    |     |
| 11...      | 1610 | 715  | 12 | 23  |
| 11...      | 1625 | 722  | 9  | 18  |
| 31...      | 0945 | 472  | 2  | 2.5 |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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INSTANTANEOUS SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE                                                                          | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SUS-<br>PENDE<br>SEDIM-<br>ENT<br>CHARGE<br>(MG/L) | SUS-<br>PENDE<br>SEDIM-<br>ENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|-------------------------------------------------------------------------------|------|-----------------------------------------------|----------------------------------------------------|-------------------------------------------------------------|
| 02207500 - YELLOW RIVER NEAR COVINGTON, GA. (LAT 33 36 52 LONG 083 54 54)     |      |                                               |                                                    |                                                             |
| MAR , 1976                                                                    |      |                                               |                                                    |                                                             |
| 19...                                                                         | 1050 | 2830                                          | 43                                                 | 329                                                         |
| 02208450 - ALCOVY RIVER ABOVE COVINGTON, GA. (LAT 33 38 24 LONG 083 46 45)    |      |                                               |                                                    |                                                             |
| OCT , 1975                                                                    |      |                                               |                                                    |                                                             |
| 03...                                                                         | 1345 | 202                                           | 21                                                 | 11                                                          |
| 30...                                                                         | 1525 | 151                                           | 22                                                 | 9.0                                                         |
| DEC                                                                           |      |                                               |                                                    |                                                             |
| 10...                                                                         | 1200 | 180                                           | 10                                                 | 4.9                                                         |
| JAN , 1976                                                                    |      |                                               |                                                    |                                                             |
| 22...                                                                         | 1030 | 181                                           | 9                                                  | 4.4                                                         |
| MAR                                                                           |      |                                               |                                                    |                                                             |
| 03...                                                                         | 0945 | 178                                           | 17                                                 | 8.2                                                         |
| JUL                                                                           |      |                                               |                                                    |                                                             |
| 08...                                                                         | 1530 | 333                                           | 22                                                 | 20                                                          |
| 02212600 - FALLING CREEK NEAR JULIETTE, GA. (LAT 33 05 59 LONG 083 43 25)     |      |                                               |                                                    |                                                             |
| OCT , 1975                                                                    |      |                                               |                                                    |                                                             |
| 07...                                                                         | 1120 | 40                                            | 8                                                  | .86                                                         |
| 21...                                                                         | 1015 | 63                                            | 17                                                 | 2.9                                                         |
| DEC                                                                           |      |                                               |                                                    |                                                             |
| 09...                                                                         | 0845 | 40                                            | 8                                                  | .86                                                         |
| FEB , 1976                                                                    |      |                                               |                                                    |                                                             |
| 03...                                                                         | 0820 | 95                                            | 43                                                 | 11                                                          |
| 24...                                                                         | 0730 | 78                                            | 22                                                 | 4.6                                                         |
| APR                                                                           |      |                                               |                                                    |                                                             |
| 06...                                                                         | 0650 | 42                                            | 8                                                  | .91                                                         |
| 27...                                                                         | 0715 | 24                                            | 14                                                 | .91                                                         |
| MAY                                                                           |      |                                               |                                                    |                                                             |
| 18...                                                                         | 0715 | 120                                           | 46                                                 | 15                                                          |
| JUN                                                                           |      |                                               |                                                    |                                                             |
| 07...                                                                         | 0700 | 44                                            | 21                                                 | 2.5                                                         |
| AUG                                                                           |      |                                               |                                                    |                                                             |
| 09...                                                                         | 0900 | 27                                            | 25                                                 | 1.8                                                         |
| 30...                                                                         | 0740 | 14                                            | 21                                                 | .79                                                         |
| 02217500 - MIDDLE OCONEE RIVER NEAR ATHENS, GA. (LAT 33 56 48 LONG 083 25 22) |      |                                               |                                                    |                                                             |
| OCT , 1975                                                                    |      |                                               |                                                    |                                                             |
| 16...                                                                         | 1045 | 413                                           | 25                                                 | 28                                                          |
| JAN , 1976                                                                    |      |                                               |                                                    |                                                             |
| 20...                                                                         | 1350 | 462                                           | 36                                                 | 45                                                          |
| MAR                                                                           |      |                                               |                                                    |                                                             |
| 11...                                                                         | 0930 | 560                                           | 42                                                 | 64                                                          |
| APR                                                                           |      |                                               |                                                    |                                                             |
| 13...                                                                         | 1435 | 640                                           | 57                                                 | 98                                                          |
| JUL                                                                           |      |                                               |                                                    |                                                             |
| 09...                                                                         | 1305 | 452                                           | 77                                                 | 94                                                          |
| AUG                                                                           |      |                                               |                                                    |                                                             |
| 20...                                                                         | 1225 | 178                                           | 16                                                 | 7.7                                                         |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

INSTANTANEOUS SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE                                                                       | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SUS-<br>PENDE<br>SED-<br>MENT<br>(MG/L) | SUS-<br>PENDE<br>SED-<br>MENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|----------------------------------------------------------------------------|------|-----------------------------------------------|-----------------------------------------|------------------------------------------------------------|
| 02226000 - ALTAMAHA RIVER AT DOCTORTOWN, GA. (LAT 31 39 16 LONG 081 49 41) |      |                                               |                                         |                                                            |

|            |      |       |    |      |
|------------|------|-------|----|------|
| OCT , 1975 |      |       |    |      |
| 22...      | 0910 | 15000 | 19 | 769  |
| 22...      | 1325 | 15100 | 28 | 1140 |
| DEC        |      |       |    |      |
| 02...      | 1140 | 6980  | 32 | 603  |
| 10...      | 0900 | 8280  | 21 | 469  |
| 29...      | 1305 | 11300 | 22 | 671  |
| FEB , 1976 |      |       |    |      |
| 03...      | 1300 | 23900 | 14 | 903  |
| 17...      | 1320 | 21800 | 14 | 824  |
| 24...      | 1240 | 13700 | 22 | 814  |
| MAR        |      |       |    |      |
| 10...      | 0840 | 11100 | 25 | 749  |
| APR        |      |       |    |      |
| 01...      | 1210 | 56700 | 33 | 5110 |
| 14...      | 0800 | 17200 | 22 | 1040 |
| MAY        |      |       |    |      |
| 05...      | 1340 | 8680  | 43 | 1020 |
| 18...      | 1150 | 10100 | 33 | 911  |
| JUN        |      |       |    |      |
| 07...      | 1130 | 21000 | 25 | 1440 |
| JUL        |      |       |    |      |
| 06...      | 0955 | 10900 | 20 | 600  |
| 20...      | 1015 | 11100 | 24 | 731  |
| AUG        |      |       |    |      |
| 10...      | 1200 | 5060  | 29 | 402  |
| 12...      | 1005 | 5100  | 36 | 501  |
| 30...      | 1150 | 5160  | 18 | 256  |

02226010 - ALTAMAHA RIVER NEAR GARDI, GA. (LAT 31 37 24 LONG 081 45 55)

|            |      |       |    |      |
|------------|------|-------|----|------|
| APR , 1976 |      |       |    |      |
| 06...      | 1250 | 27700 | 19 | 1450 |
| 27...      | 1200 | 7440  | 20 | 410  |

02228000 - SATILLA RIVER AT ATKINSON, GA. (LAT 31 13 16 LONG 081 52 03)

|            |      |      |    |     |
|------------|------|------|----|-----|
| OCT , 1975 |      |      |    |     |
| 03...      | 0920 | 3650 | 12 | 122 |
| 21...      | 1745 | 3380 | 17 | 159 |
| 23...      | 0910 | 2700 | 11 | 83  |
| DEC        |      |      |    |     |
| 08...      | 1625 | 374  | 6  | 6.1 |
| 09...      | 1510 | 394  | 10 | 11  |
| 29...      | 1530 | 1160 | 13 | 41  |
| FEB , 1976 |      |      |    |     |
| 03...      | 1530 | 5200 | 16 | 225 |
| 17...      | 1030 | 4440 | 11 | 132 |
| 25...      | 0840 | 1630 | 14 | 62  |
| MAR        |      |      |    |     |
| 10...      | 1445 | 790  | 14 | 30  |
| APR        |      |      |    |     |
| 06...      | 1645 | 754  | 16 | 33  |
| 15...      | 1315 | 492  | 18 | 24  |
| 27...      | 1645 | 212  | 12 | 6.9 |
| MAY        |      |      |    |     |
| 18...      | 1530 | 1790 | 21 | 101 |
| JUN        |      |      |    |     |
| 07...      | 1530 | 7930 | 11 | 236 |
| 10...      | 1845 | 4360 | 14 | 165 |
| JUL        |      |      |    |     |
| 05...      | 1730 | 4500 | 13 | 158 |
| 28...      | 1140 | 474  | 16 | 20  |
| AUG        |      |      |    |     |
| 09...      | 1645 | 2230 | 15 | 90  |
| 20...      | 1030 | 3540 | 14 | 134 |
| 30...      | 1530 | 830  | 12 | 27  |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

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INSTANTANEOUS SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SUS-<br>PENDE<br>SEDIM-<br>ENT<br>DIS-<br>CHARGE<br>(MG/L) | SUS-<br>PENDE<br>SEDIM-<br>ENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|------|------|-----------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------|
|------|------|-----------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------|

02316000 - ALAPAHA RIVER NEAR ALAPAHA, GA. (LAT 31 23 03 LONG 083 11 33)

|            |      |      |    |     |
|------------|------|------|----|-----|
| OCT , 1975 |      |      |    |     |
| 01...      | 1420 | 24   | 21 | 1.4 |
| NOV        |      |      |    |     |
| 12...      | 1525 | 27   | 21 | 1.5 |
| JAN , 1976 |      |      |    |     |
| 12...      | 1055 | 681  | 8  | 15  |
| MAR        |      |      |    |     |
| 05...      | 1020 | 315  | 5  | 4.3 |
| MAY        |      |      |    |     |
| 28...      | 0810 | 2810 | 29 | 220 |
| JUN        |      |      |    |     |
| 08...      | 1425 | 564  | 21 | 32  |
| JUL        |      |      |    |     |
| 29...      | 0935 | 20   | 20 | 1.1 |
| AUG        |      |      |    |     |
| 18...      | 0840 | 66   | 12 | 2.1 |

02344500 - FLINT RIVER NEAR GRIFFIN, GA. (LAT 33 14 39 LONG 084 25 45)

|            |      |      |    |      |
|------------|------|------|----|------|
| FEB , 1976 |      |      |    |      |
| 13...      | 1400 | 251  | 10 | 6.8  |
| MAR        |      |      |    |      |
| 16...      | 2010 | 8610 | 71 | 1650 |

02344700 - LINE CREEK NEAR SENOIA, GA. (LAT 33 19 10 LONG 084 31 25)

|            |      |      |     |      |
|------------|------|------|-----|------|
| OCT , 1975 |      |      |     |      |
| 09...      | 1440 | 374  | 62  | 63   |
| DEC        |      |      |     |      |
| 18...      | 1445 | 95   | 14  | 3.6  |
| 29...      | 1045 | 112  | 14  | 4.2  |
| FEB , 1976 |      |      |     |      |
| 13...      | 1600 | 106  | 18  | 5.2  |
| MAR        |      |      |     |      |
| 16...      | 1645 | 6260 | 108 | 1830 |
| JUL        |      |      |     |      |
| 26...      | 0915 | 27   | 11  | .80  |

02350600 - KINCHAFONNEE CREEK AT PRESTON, GA. (LAT 32 03 13 LONG 084 32 53)

|            |      |      |    |     |
|------------|------|------|----|-----|
| OCT , 1975 |      |      |    |     |
| 08...      | 1015 | 232  | 20 | 13  |
| NOV        |      |      |    |     |
| 06...      | 1550 | 129  | 54 | 19  |
| DEC        |      |      |    |     |
| 15...      | 1220 | 127  | 16 | 5.5 |
| JAN , 1976 |      |      |    |     |
| 28...      | 1540 | 1880 | 34 | 173 |
| MAR        |      |      |    |     |
| 22...      | 1335 | 293  | 11 | 8.7 |
| APR        |      |      |    |     |
| 07...      | 1450 | 180  | 15 | 7.3 |
| JUN        |      |      |    |     |
| 01...      | 1435 | 126  | 26 | 8.8 |
| JUL        |      |      |    |     |
| 14...      | 0955 | 95   | 12 | 3.1 |

## ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

INSTANTANEOUS SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1975 TO SEPTEMBER 1976

| DATE                                                                           | TIME | INSTAN-<br>TANEOUS<br>DIS-<br>CHARGE<br>(CFS) | SUS-<br>PENDE<br>SEDIM-<br>ENT<br>DIS-<br>CHARGE<br>(MG/L) | SUS-<br>PENDE<br>SEDIM-<br>ENT<br>DIS-<br>CHARGE<br>(T/DAY) |
|--------------------------------------------------------------------------------|------|-----------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------|
| 02353500 - ICHAWAYNOCHAWAY CREEK AT MILFORD, GA. (LAT 31 22 58 LONG 084 32 52) |      |                                               |                                                            |                                                             |
| OCT , 1975                                                                     |      |                                               |                                                            |                                                             |
| 15...                                                                          | 1255 | 460                                           | 12                                                         | 15                                                          |
| NOV                                                                            |      |                                               |                                                            |                                                             |
| 14...                                                                          | 0820 | 1610                                          | 46                                                         | 200                                                         |
| DEC                                                                            |      |                                               |                                                            |                                                             |
| 15...                                                                          | 1840 | 510                                           | 9                                                          | 12                                                          |
| FEB , 1976                                                                     |      |                                               |                                                            |                                                             |
| 05...                                                                          | 1240 | 964                                           | 9                                                          | 23                                                          |
| MAR                                                                            |      |                                               |                                                            |                                                             |
| 04...                                                                          | 1210 | 590                                           | 10                                                         | 16                                                          |
| APR                                                                            |      |                                               |                                                            |                                                             |
| 22...                                                                          | 1325 | 400                                           | 22                                                         | 24                                                          |
| JUN                                                                            |      |                                               |                                                            |                                                             |
| 03...                                                                          | 1130 | 996                                           | 25                                                         | 67                                                          |
| JUL                                                                            |      |                                               |                                                            |                                                             |
| 16...                                                                          | 1445 | 340                                           | 13                                                         | 12                                                          |
| 02380500 - COOSAWATTEE RIVER NEAR ELLIJAY, GA. (LAT 34 40 18 LONG 084 30 31)   |      |                                               |                                                            |                                                             |
| MAR , 1976                                                                     |      |                                               |                                                            |                                                             |
| 30...                                                                          | 1415 | 2490                                          | 444                                                        | 2990                                                        |
| 02387000 - CONASAUGA RIVER AT TILTON, GA. (LAT 34 40 00 LONG 084 55 42)        |      |                                               |                                                            |                                                             |
| APR , 1976                                                                     |      |                                               |                                                            |                                                             |
| 01...                                                                          | 1700 | 6210                                          | 36                                                         | 604                                                         |
| 02387500 - OOSTANAULA RIVER AT RESACA, GA. (LAT 34 34 42 LONG 084 56 29)       |      |                                               |                                                            |                                                             |
| APR , 1976                                                                     |      |                                               |                                                            |                                                             |
| 01...                                                                          | 1520 | 17800                                         | 86                                                         | 4130                                                        |
| 02389000 - ETOWAH RIVER NEAR DAWSONVILLE, GA. (LAT 34 22 57 LONG 084 03 21)    |      |                                               |                                                            |                                                             |
| APR , 1976                                                                     |      |                                               |                                                            |                                                             |
| 01...                                                                          | 1030 | 1350                                          | 399                                                        | 1450                                                        |
| 02392000 - ETOWAH RIVER AT CANTON, GA. (LAT 34 14 23 LONG 084 29 47)           |      |                                               |                                                            |                                                             |
| APR , 1976                                                                     |      |                                               |                                                            |                                                             |
| 01...                                                                          | 1210 | 18100                                         | 170                                                        | 8310                                                        |
| 28...                                                                          | 1120 | 1330                                          | 50                                                         | 180                                                         |
| AUG                                                                            |      |                                               |                                                            |                                                             |
| 02...                                                                          | 1000 | 928                                           | 53                                                         | 133                                                         |
| 03545000 - HIWASSEE RIVER AT PRESLEY, GA. (LAT 34 54 17 LONG 083 43 01)        |      |                                               |                                                            |                                                             |
| APR , 1976                                                                     |      |                                               |                                                            |                                                             |
| 01...                                                                          | 1520 | 655                                           | 75                                                         | 133                                                         |
| 03550500 - NOTTELY RIVER NEAR BLAIRSVILLE, GA. (LAT 34 50 28 LONG 083 56 10)   |      |                                               |                                                            |                                                             |
| APR , 1976                                                                     |      |                                               |                                                            |                                                             |
| 01...                                                                          | 1600 | 948                                           | 120                                                        | 307                                                         |
| 03559000 - TOCCOA RIVER NEAR DIAL, GA. (LAT 34 47 24 LONG 084 14 24)           |      |                                               |                                                            |                                                             |
| APR , 1976                                                                     |      |                                               |                                                            |                                                             |
| 01...                                                                          | 1300 | 1740                                          | 162                                                        | 761                                                         |

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# FACTORS FOR CONVERTING ENGLISH UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

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

\*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p.15, 1972 edition.

\*\*The unit liter is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.



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