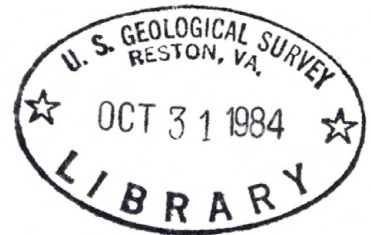


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Water Resources Data Georgia Water Year 1983



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT GA-83-1
Prepared in cooperation with the State of Georgia
and with other agencies

CALENDAR FOR WATER YEAR 1983

1982

OCTOBER

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Water Resources Data Georgia

Water Year 1983

by W.R. Stokes, III, T.W. Hale, J.L. Pearman, and G.R. Buell



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT GA-83-1
Prepared in cooperation with the State of Georgia
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

WILLIAM P. CLARKE, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

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District Chief, Water Resources Division
U.S. Geological Survey
6481 Peachtree Industrial Boulevard, Suite B
Doraville, Georgia 30360

PREFACE

This volume of the annual hydrologic data report of Georgia is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for Georgia are contained in 1 volume.

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

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Janet K. Groseclose typed the text of the report.

This report was prepared in cooperation with the State of Georgia and with other agencies under the general supervision of J. T. Armbruster, District Chief, Georgia.

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INTRODUCTION

Water resources data for the 1983 water year for Georgia consists of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and ground-water levels. This report contains discharge records for 104 gaging stations; stage for 11 gaging stations; stage and contents for 17 lakes and reservoirs; water quality for 14 continuous stations, 107 periodic stations and miscellaneous sites; peak stage and discharge only for 122 crest-stage partial-record stations and 4 miscellaneous sites; and water levels of 28 observation wells. 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 and 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 1970, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1970 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1971 water year, water data for streamflow, water quality, and ground water are published in official Survey reports on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report GA-83-1." These water-data reports are for sale, in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on the back of the title page or by telephone (404) 221-4858.

COOPERATION

The U.S. Geological Survey and organizations of the State of Georgia have 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 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
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
Chatham County
Glynn County
Columbus
Albany Water, Gas and Light Commission
Clayton County Water Authority
Macon-Bibb County Water & Sewerage Authority
City of Brunswick
City of Covington
City of Valdosta

HYDROLOGIC CONDITIONS

Streamflow

Annual runoff for the water year was slightly above normal throughout the State except for extreme south Georgia, where runoff was well above normal. The ratio of the 1983 water-year runoff to long-term average runoff for unregulated streams having more than 5 years of streamflow record ranged from about 1.9 at Satilla River near Waycross to 0.9 at Whitten Creek near Sparta.

Monthly mean runoff in the northern part of the State was below normal in January, March, July, August, and September and above normal for the remainder of the year. In the central part, monthly mean runoff was above normal from December through April and below normal for the remainder of the year. In the southern part, monthly mean runoff was above normal from January through May and below normal for the remainder of the year.

Only minor flooding occurred in Georgia during the water year. Locally heavy rainfalls produced peak flows of up to 20-years recurrence intervals on some small streams in east-central Georgia in March and April. These floods were isolated and no widespread areas were affected.

No significant droughts occurred in Georgia during the year. Several streams in central Georgia experienced daily minimum flows equivalent to 5-year recurrence intervals, while 2-year recurrence intervals or less were experienced elsewhere.

Figure 1 shows monthly and yearly streamflows for the 1983 water year at three representative long-term gaging stations and the average monthly and yearly streamflows for the period 1951-80.

Water Quality

The chemical quality of surface water in Georgia during the 1983 water year was similar to that of previous years. This assessment is based upon a comparison of mean values of selected water-quality parameters sampled during the 1983 water year versus the mean values for the period of record. Thirteen water-quality sampling stations were selected for this comparison and the results are presented in table 1. The statistics presented in table 1 were calculated from water-quality data collected on a periodic basis. No continuous water-quality monitor data were used in the calculations.

The pH, specific conductance, alkalinity, and nutrient concentrations for the 1983 water year were comparable to period-of-record means. The low pH values for Satilla River at Atkinson and Suwannee River at Fargo are typical of streams draining swamps and bogs.

The pesticide monitoring portion of the National Stream Quality Accounting Network (NASQAN) and Hydrologic Bench-Mark Programs was discontinued this water year, so no appraisal can be made of pesticide conditions in Georgia. Trace metal concentrations measured in water samples collected at five NASQAN stations and one Hydrologic Bench-Mark station were less than the critical levels permitted for various beneficial uses.

Ground Water

Ground-water levels during the first half of the 1983 water year were from about the same as in 1982, to 16 feet higher. During the second half of the water year, water levels were from 8 feet lower to 15 feet higher than in 1982.

Water levels in the Floridan aquifer system (formerly principal artesian aquifer) in the southwestern part of the State were from 3 to 14 feet higher than in the 1982 water year.

Along the coast, water levels in the Floridan aquifer system at Savannah during the first half of the 1983 water year, were from 1 to 10 feet higher than in 1982, and were from 8 feet lower to 4 feet higher during the second half of the water year. In Brunswick, water levels were from 10 to 15 feet higher than in 1982 from October through June, and were from 2 feet lower to 8 feet higher from July through September.

In the south-central part of the State, water levels in the Floridan aquifer system at Valdosta were from 3 to 7 feet higher than in 1982 from October through June, and were from 1 foot lower to 3 feet higher from July through September.

In the southwestern part of the State, water levels in the Clayton aquifer at Albany were from 10 to 16 feet higher than in 1982 from October through June, and were from 2 feet lower to 15 feet higher from July through September.

During the 1983 water year, water levels in the crystalline rock aquifers of the Piedmont were from about the same as in 1982, to 4 feet higher.

More information concerning water-level fluctuations in the State can be found in open-file reports entitled, "Ground-Water Data for Georgia, 1982", which includes calendar year 1982, and "Ground-Water Data for Georgia, 1983", which includes calendar year 1983.

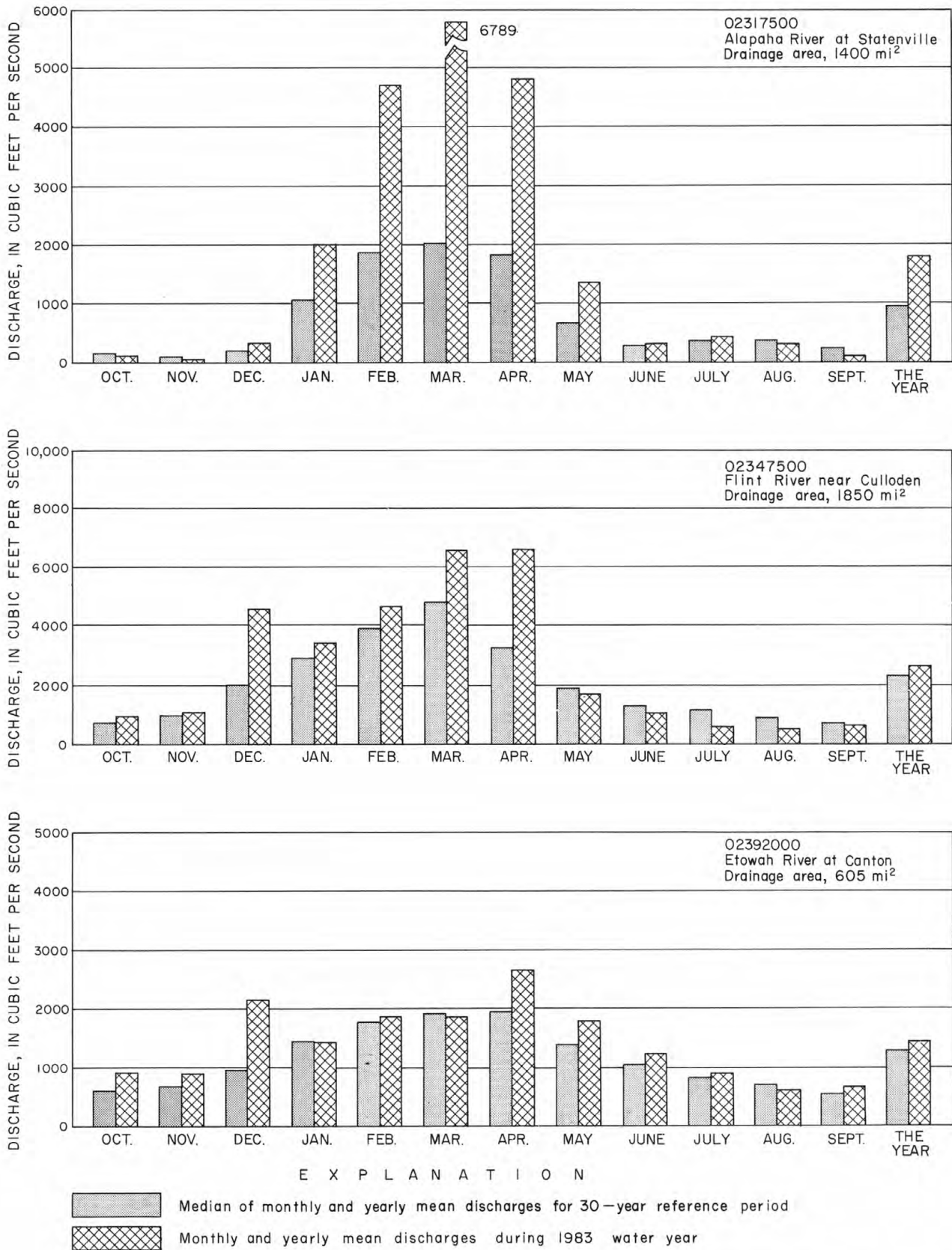


Figure 1.—Comparison of discharge at three representative long-term gaging stations during 1983 water year with median discharge for 30-year reference period.

Table 1.--Water-quality characteristics of Georgia surface water at selected periodic sampling stations

[N, number of samples; mean pH calculated from antilogarithms; d, analysis discontinued]

Stream and location	Downstream order number	Sample period (water) years	pH (units)		Specific conductance (umhos)		Alkalinity (mg/L as CaCO ₃)		Nitrogen, NO ₂ +NO ₃ total (mg/L as N)		Phosphorus, total (mg/L as P)		Carbon, organic total (mg/L as C)	
			N	Mean	N	Mean	N	Mean	N	Mean	N	Mean	N	Mean
Chattooga River near Clayton	02177000	1968-83	137	6.6	125	13	114	5.2	101	.03	100	.03	96	2.0
		1983	12	7.0	12	14	12	5.0	12	.03	12	.03	10	1.5
Ogeechee River near Eden	02202500	1974-83	140	6.4	131	75	117	23	94	.10	104	.05	55	8.8
		1983	6	6.9	6	85	6	25	0	d	6	.06	0	d
Falling Creek near Juliette	02212600	1968-83	169	6.7	167	116	153	50	77	.06	82	.10	30	3.6
		1983	4	7.6	4	129	4	60	0	d	4	.04	0	d
North Oconee River at Athens	02217740	1974-83	101	6.9	101	54	89	21	101	.33	101	.05	98	2.8
		1983	12	7.0	12	54	12	19	12	.37	12	.04	10	2.9
Altamaha River near Everett City	02226160	1970-83	137	6.7	138	117	126	27	124	.25	136	.07	102	8.6
		1983	19	7.1	19	122	19	27	13	.23	19	.07	12	8.9
Satilla River at Atkinson	02228000	1968-83	150	4.8	142	55	129	4.1	111	.10	119	.09	85	19
		1983	9	5.2	9	52	9	2.6	6	.13	9	.09	6	28
Suwannee River at Fargo	02314500	1968-83	136	4.1	122	53	70	1.2	97	.04	98	.03	94	36
		1983	12	3.7	12	68	12	1.0	11	.02	11	.03	10	47
Withlacoochee River near Clyattsville	02318960	1974-83	102	6.3	102	120	89	38	103	.30	103	.17	100	12
		1983	12	5.9	12	118	12	36	12	.41	12	.18	10	13
Chattahoochee River near Fairburn	02337170	1968-83	277	6.5	309	79	121	20	295	.56	295	.45	274	5.9
		1983	13	6.7	13	80	13	17	13	.74	13	.35	11	3.5
Kinchafoonsee Creek at Preston	02350600	1969-83	67	6.5	60	33	61	9.3	56	.15	57	.03	55	4.5
		1983	2	6.8	2	35	2	11	2	.15	2	.04	2	6.9
Flint River at Albany	02352500	1968-83	91	7.1	76	68	72	23	53	.27	53	.12	48	4.5
		1983	4	7.2	4	89	4	28	4	.41	4	.09	4	4.9
Conasauga River near Dalton	02384748	1974-83	105	7.4	104	102	92	46	103	.20	102	.05	100	3.1
		1983	12	7.3	12	87	12	40	12	.19	12	.08	11	2.9
Conasauga River near Resaca	02387050	1974-83	102	7.3	101	162	90	59	101	.48	101	.55	99	6.0
		1983	12	7.3	12	142	12	51	12	.43	12	.69	11	6.3

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.

Alkalinity is the quantitative capacity of water to react with a strong acid to a designated pH. The designated pH for alkalinity values presented in this report is 4.5.

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

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

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

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

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

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

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

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

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

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

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

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

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

Bottom material: See Bed material.

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

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1,9835 acre-feet, about 646,000 gallons or 2,447 cubic meters.

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

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

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

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

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

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

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

Cubic foot per second (FT /s, ft /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 is that material in a representative water sample which passes through a 0.45 μ m membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

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

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

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

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

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

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number. The first 2 digits represent the region, the second 2 digits represent the planning subregion, the third 2 digits represent the accounting unit, and the last 2 digits represent the cataloging unit. U.S. Geological Survey Circular 878-A explains the hydrologic unit system in detail.

Land-surface datum (lsd) is a reference elevation that is approximately at land surface at a well from which depth or height to water surface is measured.

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 per unit mass (gram) of sediment.

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

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

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

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

Clay.....	0.00024 - 0.004	Sedimentation
Silt.....	.004 - .062	Sedimentation
Sand.....	.062 - 2.0	Sedimentation or sieve
Gravel.....	2.0 - 64.0	Sieve

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

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

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

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

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

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

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

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

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

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

Runoff in inches (IN, 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 stream 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 or 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. Geological Survey topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

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

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45 um membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent of the constituent present in the sample). To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly by difference, based on determination of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45 um membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total." Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determination of (1) dissolved and (2) total concentrations of the constituent.

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

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

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

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

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

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

DOWNSTREAM ORDER AND STATION NUMBER

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

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

NUMBERING SYSTEM FOR WELLS

Downstream order station numbers are not assigned to wells. The well numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well and an unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits is a sequential number for wells within a 1-second grid. In the event that several wells are within the same 1-second grid, a different sequential number, such as "01", "02", etc., is assigned to each well to insure an unique station number. See figure 2 below.

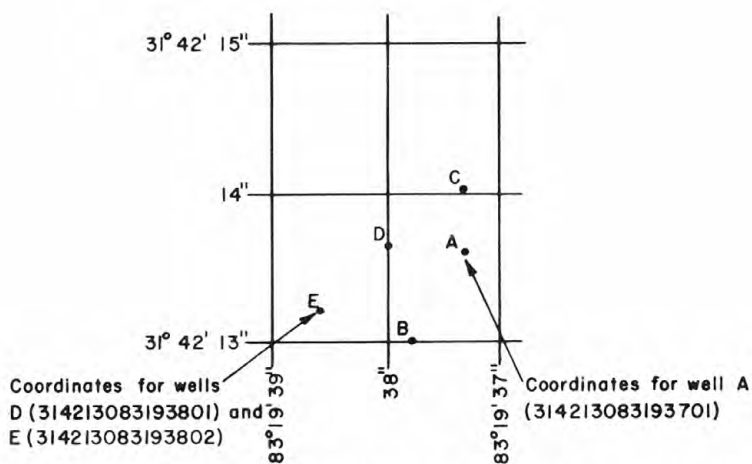


Figure 2.—System for numbering wells (latitude and longitude).

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 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 consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes and 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 curve 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 daily 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 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 to 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 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 the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the U.S. Army Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed

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

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

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

Accuracy of field data and computed results

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

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

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

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

Other data available

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

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

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

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

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

Water analysis

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

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentrations of solute at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

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

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

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

Water temperature

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

At stations where recording instruments are used, mean daily temperatures and/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.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of data

Ground-water level data from a network of observation wells in Georgia are published herein. This basic network contains observations wells located so that the most significant data are obtained from the fewest wells in the most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude as shown in figure 1, and (2) a local number that is provided for local needs.

Water-level measurements in this report are given in feet to either National Geodetic Vertical Datum of 1929 (NGVD), land-surface datum, or altitude. NGVD is a datum plane on which the national network of precise level lines have been tied; land-surface datum is approximated by less than precise levels; altitude of the land surface is the approximated elevation obtained from a topographic map. The NGVD, land-surface datum, or altitude is given in the well description. The height of the measuring point above or below land surface is given in each well description. Wells for which water-level data are included in this report are equipped with continuous recorders and daily mean water levels are reported. Low- and high-water levels included at the bottom of tables are extremes for data in the table only.

Water levels are reported to as many significant figures as can be justified by the local conditions. Accordingly, most measurements are reported to a hundredth of a foot.

ACCESS TO WATSTORE DATA

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

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from each of the Water Resources Division's district offices (see address given on the back of the title page).

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-seven manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in 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 pages.

- 1-D2. Guidelines for collection and field analysis of ground-water samples for selected unstable constituents, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
- 2-D1. Application of surface geophysics to ground-water investigations, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
- 2-E1. Application of borehole geophysics to water-resources investigations, by W. S. Keys and L. M. McCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.
- 3-A1. General field and office procedures for indirect discharge measurements, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.
- 3-A2. Measurement of peak discharge by the slope-area method, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.
- 3-A3. Measurement of peak discharge at culverts by indirect methods, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.
- 3-A4. Measurement of peak discharge at width contractions by indirect methods, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.
- 3-A5. Measurement of peak discharge at dams by indirect methods, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.
- 3-A6. General procedure for gaging streams, by R. W. Carter and Jacob Dividian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.
- 3-A7. Stage measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.
- 3-A8. Discharge measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.
- 3-A9. Measurement of time of travel and dispersion in streams by dye tracing, by E. F. Hubbard, F. A. Kilpatrick, L. A. Martens, and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1982. 44 pages.
- 3-A11. Measurement of discharge by moving-boat method, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.
- 3-B1. Aquifer-test design, observation, and data analysis, by R. W. Stallman: USGS--TWRI Book 3, chapter B1. 1971. 26 pages.
- 3-B2. Introduction to ground-water hydraulics, a programmed text for self-instruction, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.
- 3-B3. Type curves for selected problems of flow to wells in confined aquifers, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.
- 3-C1. Fluvial sediment concepts, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.
- 3-C2. Field methods for measurement of fluvial sediment, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.
- 3-C3. Computation of fluvial-sediment discharge, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.
- 4-A1. Some statistical tools in hydrology, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.
- 4-A2. Frequency curves, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.
- 4-B1. Low-flow investigations, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.
- 4-B2. Storage analyses for water supply, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.
- 4-B3. Regional analyses of streamflow characteristics, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.
- 4-D1. Computation of rate and volume of stream depletion by wells, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.
- 5-A1. Methods for determination of inorganic substances in water and fluvial sediments, by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.
- 5-A2. Determination of minor elements in water by emission spectroscopy, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.
- 5-A3. Methods for analysis of organic substances in water, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 12 pages.
- 5-A4. Methods for collection and analysis of aquatic biological and microbiological samples, edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.
- 5-A5. Methods for determination of radioactive substances in water and fluvial sediments, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.
- 5-C1. Laboratory theory and methods for sediment analysis, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.
- 7-C1. Finite difference model for aquifer simulation in two dimensions with results of numerical experiments, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.
- 7-C2. Computer model of two-dimensional solute transport and dispersion in ground water, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.
- 7-C3. A model for simulation of flow in singular and interconnected channels, by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.
- 8-A1. Methods of measuring water levels in deep wells, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages.
- 8-B2. Calibration and maintenance of vertical-axis type current meters, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

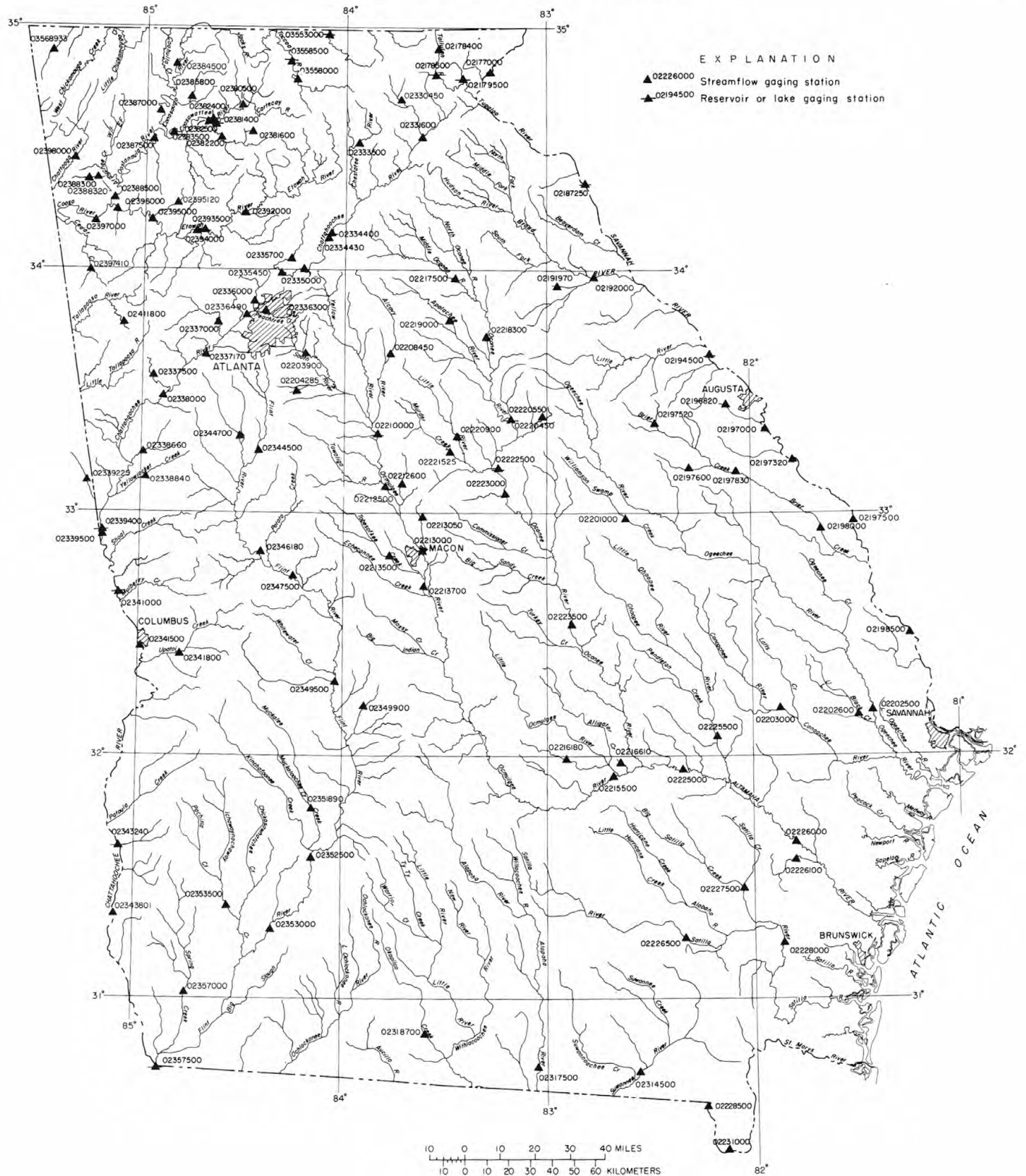
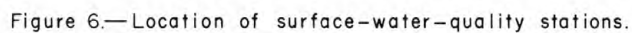




Figure 4.—Location of crest stage partial-record stations.



Figure 5.— Location of crest stage partial-record stations in Atlanta metropolitan area.



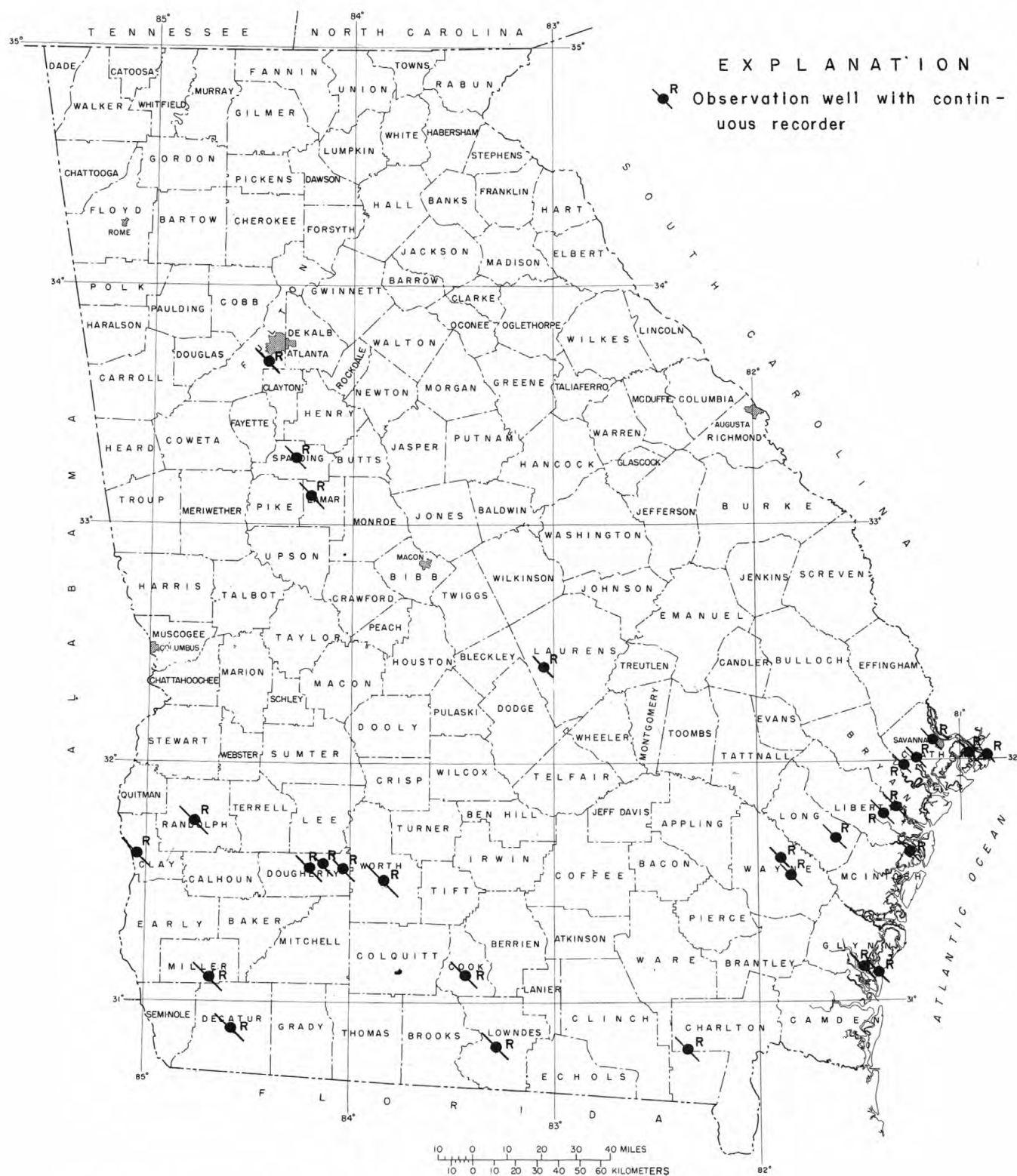


Figure 7.—Location of selected observation wells.

HYDROLOGIC-DATA STATION RECORDS

SAVANNAH RIVER BASIN

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA.

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

DRAINAGE AREA.--207 mi².

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, National Geodetic Vertical Datum of 1929. May 1907 to June 1908, nonrecording gage at site 400 ft upstream at different datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--44 years, 662 ft³/s, 43.43 in/yr.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 5	2015	6200	5.49	Apr. 9	2400	4320	4.52
Feb. 2	1015	*7910	6.27	May 20	0600	4500	4.62

Minimum discharge, 208 ft³/s Aug. 31, Sept. 1, gage height, 1.10 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	247	259	1460	1060	729	818	1140	1080	856	808	395	324
2	243	256	1290	1090	3960	770	1770	1050	829	610	402	310
3	238	438	1110	1120	2030	744	1680	1040	809	552	338	300
4	239	757	1050	1010	1500	727	1360	1030	842	491	331	873
5	236	544	2480	944	1300	718	1340	974	810	464	361	529
6	232	428	2770	902	1330	1760	1920	942	808	462	318	501
7	241	385	1610	360	1280	1240	1540	918	770	431	398	364
8	494	364	1300	821	1180	1180	1930	911	764	412	347	299
9	363	349	1130	792	1110	1060	2990	894	733	400	336	288
10	293	336	1020	806	1080	965	3050	861	698	385	297	267
11	372	326	1040	802	1180	909	2130	847	680	372	281	299
12	344	343	1470	764	1090	868	1820	823	656	385	290	341
13	1200	672	1150	724	1040	831	1650	827	640	360	276	283
14	861	478	1010	710	1030	802	1660	1070	619	347	262	313
15	490	425	968	700	993	780	1760	895	610	369	253	278
16	397	392	2040	673	970	762	1610	1030	593	392	251	251
17	352	377	1400	658	940	934	1480	947	602	380	251	243
18	333	424	1190	642	910	1380	1440	848	662	498	251	234
19	319	534	1090	618	890	1040	1360	1640	610	461	243	223
20	313	621	1020	617	360	974	1290	3070	621	513	237	243
21	311	621	945	952	840	1710	1250	1930	585	476	228	743
22	298	784	885	1730	959	1260	1210	1640	612	397	219	509
23	288	701	847	1240	1390	1100	1340	1480	593	376	213	345
24	282	601	812	1040	1070	1080	1870	1280	561	359	250	296
25	286	527	1080	927	970	1040	1450	1180	537	352	333	271
26	305	491	1160	363	918	1010	1310	1100	513	369	282	258
27	282	471	1020	828	887	2090	1240	1040	506	342	252	248
28	269	498	1550	801	857	1770	1190	990	789	328	234	238
29	267	1710	1770	767	---	1370	1150	959	653	317	225	229
30	264	1080	1290	758	---	1230	1110	943	577	311	216	227
31	262	---	1150	738	---	1220	---	887	---	317	209	---
TOTAL	10921	16192	40107	26957	33293	34142	48040	35126	20138	13036	8779	10127
MEAN	352	540	1294	870	1189	1101	1601	1133	671	421	283	338
MAX	1200	1710	2770	1730	3960	2090	3050	3070	856	808	402	873
MIN	232	256	812	617	729	718	1110	823	506	311	209	223
CFSM	1.70	2.61	6.25	4.20	5.74	5.32	7.73	5.47	3.24	2.03	1.37	1.63
IN.	1.96	2.91	7.21	4.84	5.98	6.14	8.63	6.31	3.62	2.34	1.58	1.82

CAL YR 1982	TOTAL	251839	MEAN 690	MAX 3630	MIN 232	CFSM 3.33	IN 45.26
WTR YR 1983	TOTAL	296858	MEAN 813	MAX 3960	MIN 209	CFSM 3.93	IN 53.35

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA.--Continued

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
13...	1445	1520	--	15	6.9	6.6	17.0	22.0	9.3	100
NOV										
09...	1345	335	19	13	7.2	6.8	8.5	26.0	11.8	103
DEC										
15...	1400	928	12	12	6.7	6.5	6.0	8.0	11.2	94
JAN										
12...	1530	761	12	13	7.0	6.7	6.5	11.0	12.0	102
FEB										
09...	1345	1100	12	11	7.0	6.6	4.5	11.0	12.8	104
MAR										
09...	1515	1040	14	12	7.0	6.8	12.0	16.0	10.3	106
APR										
13...	1045	1660	10	11	6.8	6.6	11.5	21.0	10.6	101
MAY										
12...	1130	818	14	13	--	6.8	16.0	29.5	9.6	100
JUN										
15...	1315	610	13	13	7.2	6.9	20.0	35.0	9.0	104
JUL										
14...	1100	347	14	15	7.3	6.9	23.0	26.5	8.2	100
AUG										
08...	0930	360	14	15	7.3	6.8	23.0	32.0	8.8	107
SEP										
14...	0945	317	16	16	--	7.0	21.0	22.5	9.0	105

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT											
13...	66	--	1.9	3300	5.0	196	<.02	.050	--	.030	--
NOV											
09...	4	--	.5	40	5.0	1	<.02	.040	--	<.020	--
DEC											
15...	5	--	.6	40	4.0	<1	.03	.030	--	<.020	<1.0
JAN											
12...	5	--	1.4	90	4.0	3	.04	.030	--	<.020	2.8
FEB											
09...	1	--	.5	90	4.0	2	.04	.020	--	<.020	.1
MAR											
09...	5	--	.1	230	4.0	2	<.02	.020	--	<.020	1.1
APR											
13...	3	--	.7	50	4.0	2	.04	.070	--	<.020	<1.0
MAY											
12...	5	--	.3	50	5.0	7	.04	.040	--	.100	<1.0
JUN											
15...	5	--	.7	20	6.0	<1	.02	<.020	--	<.020	1.3
JUL											
14...	6	6	1.6	50	7.0	3	.02	.040	.20	<.020	2.1
AUG											
08...	2	5	.3	65	6.0	<1	<.02	<.020	.30	<.020	2.6
SEP											
14...	4	6	.2	80	6.0	2	.02	.030	<.10	<.020	2.0

SAVANNAH RIVER BASIN

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

LOCATION.--Lat 34°53'25", long 83°31'50", Rabun County, Hydrologic Unit 03060102, on right bank 100 ft downstream from county highway bridge, 120 ft downstream from Persimmon Creek, 8 mi upstream from Burton Dam, and 10.3 mi west of Clayton.
DRAINAGE AREA.--56.5 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 1,868.93 ft, National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation).

REMARKS.--Records good.

AVERAGE DISCHARGE.--19 years, 200 ft³/s, 48.07 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,500 ft³/s May 28, 1973, gage height, 12.00 ft; minimum discharge, 36 ft³/s Oct. 7, 8, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 5	1600	2360	6.38	Apr. 9	1415	1700	5.53
Feb. 2	0615	*3260	7.41				

Minimum discharge, 50 ft³/s Aug. 30, 31, gage height, 1.90 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	76	489	244	224	191	249	244	207	197	110	85
2	57	75	381	263	1450	182	405	236	197	166	91	92
3	56	130	312	250	543	177	357	249	194	145	84	79
4	56	150	264	228	387	173	304	235	221	146	84	207
5	57	116	1090	216	324	170	391	223	194	134	86	97
6	56	103	755	205	334	411	526	215	184	127	110	78
7	73	96	444	197	299	256	425	209	184	119	86	69
8	99	91	336	189	274	244	579	222	220	114	81	65
9	72	88	281	182	259	220	1180	205	217	110	78	65
10	72	85	249	186	268	208	888	193	183	104	74	61
11	115	83	282	182	285	198	609	194	172	102	71	59
12	109	140	405	175	259	190	490	190	165	99	81	100
13	472	150	300	167	245	184	424	193	158	97	70	81
14	222	120	260	164	239	178	416	196	153	95	68	73
15	152	110	320	162	227	173	466	185	149	93	65	64
16	123	103	558	155	219	169	402	268	144	90	65	61
17	108	104	375	152	212	202	367	209	165	88	65	60
18	100	130	313	147	205	204	363	195	193	119	64	58
19	96	137	293	142	199	197	330	597	162	108	62	56
20	94	133	265	142	192	245	310	512	153	108	60	96
21	101	150	240	350	188	349	294	737	144	106	58	247
22	90	181	224	375	260	268	282	518	144	95	57	123
23	87	163	212	278	230	237	344	406	141	95	55	89
24	84	168	203	238	239	234	388	343	136	117	54	77
25	92	146	234	216	222	217	332	303	132	106	62	71
26	87	135	231	201	207	221	304	278	127	95	62	67
27	83	127	225	193	199	527	285	257	150	90	61	64
28	81	182	425	184	195	373	271	242	247	86	58	61
29	79	355	395	177	---	303	259	236	177	82	55	60
30	78	241	306	177	---	271	251	223	149	81	52	59
31	77	---	268	169	---	280	---	213	---	78	87	---
TOTAL	3187	4068	10935	6306	8434	7452	12491	8731	5162	3392	2216	2524
MEAN	103	136	353	203	301	240	416	282	172	109	71.5	84.1
MAX	472	355	1090	375	1450	527	1180	737	247	197	110	247
MIN	56	75	203	142	188	169	249	185	127	78	52	56
CFSM	1.82	2.41	6.25	3.59	5.33	4.25	7.36	4.99	3.04	1.93	1.27	1.49
IN.	2.10	2.68	7.20	4.15	5.55	4.91	8.22	5.75	3.40	2.23	1.46	1.66
CAL YR 1982	TOTAL	64331	MEAN 176	MAX 1450	MIN 56	CFSM 3.12	IN 42.36					
WTR YR 1983	TOTAL	74898	MEAN 205	MAX 1450	MIN 52	CFSM 3.63	IN 49.31					

SAVANNAH RIVER BASIN

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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 September 1979.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 26...	1010	86	--	18	--	7.1	7.5	--	--
DEC 08...	1045	339	16	16	--	6.9	7.5	--	--
JAN 26...	1245	200	19	13	6.7	6.9	2.0	--	--
MAR 02...	1100	184	17	16	6.9	7.0	6.5	--	--
APR 07...	1200	407	14	13	--	7.2	11.0	10.1	98
13...	0900	432	17	12	6.9	6.9	9.5	--	--
MAY 24...	0930	350	--	14	--	6.8	13.5	--	--
JUL 06...	1140	129	21	17	7.1	7.2	18.5	--	--
AUG 16...	1015	68	23	18	6.7	7.2	18.0	--	--
SEP 07...	1030	71	20	21	--	6.6	19.5	8.1	95

SAVANNAH RIVER BASIN

02178400 TALLULAH RIVER NEAR CLAYTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	COLOR (PLAT- INUM- CCBALT UNITS)	TUR- BID- ITY (NTU)	HARD- NESS (MG/L AS CaCO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CaCO3)	CALCIUM DIS- SOLVED (MG/L AS Ca)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY LAB (MG/L AS CaCO3)
APR 07...	3	35	5	0	1.1	.5	1.1	32	.2	.4	6.0
SEP 07...	3	3.6	6	0	1.6	.5	1.7	35	.3	.6	9.0

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TCTAL (MG/L AS N)
APR 07...	1.6	.8	<.10	7.1	19	16	20.9	.03	<.10	<.10	<.010
SEP 07...	1.5	.8	<.10	11	21	23	4.0	.03	<.10	<.10	.010

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TCTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)
APR 07...	<.010	--	.10	<.10	<.010	<.010	1.6	10	1	<1	1
SEP 07...	<.010	.69	.70	.40	.050	.050	2.0	10	2	1	<1

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, DIS- SOLVED (UG/L AS ZN)
APR 07...	10	12	10	11	3	4	<.1	.2	<1	<3
SEP 07...	<10	2	64	3	<1	8	1.5	.5	<1	5

02187500 SAVANNAH RIVER NEAR IVA, S.C.

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

DRAINAGE AREA.--2,231 mi².

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

PERIOD OF DAILY RECORD.--

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Water discharge record for the period October 1949 to September 1981 are in reports published by the U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHCS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV 09...	1030	33	33	6.9	6.9	13.0	15.0	8.2	78
FEB 09...	1045	35	46	7.1	4.8	8.0	10.0	11.3	97
MAY 12...	0915	32	33	--	7.0	11.5	26.0	10.4	96
AUG 08...	1230	35	37	7.2	7.1	24.0	38.0	10.4	126

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CACO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)
NOV 09...	5	.7	<30	10	.12	.040	<.020	--	170	80
FEB 09...	6	.7	<30	1.0	.08	.050	<.020	.3	480	<50
MAY 12...	4	.2	50	8.0	.13	.090	<.020	1.1	120	<50
AUG 08...	2	.6	1300	10	.20	<.020	.020	2.1	70	<50

SAVANNAH RIVER BASIN

02191970 LITTLE MACKS CREEK NEAR LEXINGTON, GA.

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

DRAINAGE AREA.--1.77 mi².

PERIOD OF RECORD.--Annual maximum, water years 1960-74, December 1974 to current year. Prior to October 1977, published as Macks Creek Tributary No. 2 near Lexington.

GAGE.--Water-stage recorder. Altitude of gage is 510 ft, from topographic map. December 9, 1959, to December 4, 1974, crest-stage gage at same site and datum.

REMARKS.--Records fair except those for periods of beaverdams, Oct. 15 to Dec. 15 and Mar. 3 to Apr. 7 and those of no gage height record, Apr. 12, to May 10 and Sept. 2-13, which are poor.

GAGE DISCHARGE.--8 years, 2.23 ft³/s, 17.11 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 853 ft³/s Nov. 5, 1977, gage height, 10.49 ft; minimum daily discharge, 0.13 ft³/s Oct. 2, 1981.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 8	1300	*320	6.11

Minimum daily discharge, 0.47 ft³/s Oct. 1-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.47	.54	12	1.5	2.9	4.3	6.0	2.7	1.4	.96	2.9	1.6
2	.47	.53	6.0	7.6	6.5	3.8	5.0	2.5	1.2	.92	1.3	17
3	.47	1.1	3.5	6.8	4.4	3.5	4.5	2.4	1.1	.88	1.1	17
4	.47	1.5	2.4	4.8	3.6	3.0	4.2	3.4	1.1	.87	.95	6.0
5	.47	1.2	2.0	4.0	3.0	7.0	3.9	3.0	1.1	2.9	.83	2.5
6	.47	1.0	4.0	3.6	7.0	12	5.0	2.4	1.3	2.0	.68	1.6
7	.47	.35	2.5	3.1	5.7	15	15	2.1	2.2	1.1	.61	1.3
8	.49	.76	2.2	2.6	4.5	7.0	7.0	1.9	1.9	1.2	.61	1.1
9	.58	.72	2.0	2.5	4.0	4.5	5.0	1.7	2.2	.93	.60	.95
10	.56	.58	1.7	2.4	4.1	3.0	2.0	1.6	1.7	.89	.56	.85
11	1.9	.56	15	2.5	4.6	2.8	11	1.5	1.4	.86	.55	.80
12	5.8	.55	13	2.3	3.7	2.6	8.0	1.4	1.3	.95	.55	3.0
13	14	1.2	5.0	2.4	3.4	2.5	6.0	1.4	1.2	.93	.53	1.3
14	6.4	1.3	3.5	2.1	3.0	2.4	5.0	1.4	1.2	.90	.55	1.0
15	4.0	1.2	3.0	2.1	8.8	2.4	4.5	1.3	1.2	.77	.55	.87
16	2.0	1.0	3.8	2.0	5.9	2.5	4.5	3.8	1.1	.73	.63	.98
17	1.3	.90	2.8	2.0	4.9	3.0	4.2	1.8	1.0	4.0	.66	.81
18	1.1	.36	2.6	2.2	4.2	3.0	4.5	1.6	1.1	3.8	.66	.76
19	.95	.35	2.4	2.3	3.8	2.5	5.0	2.2	1.0	1.5	.60	.90
20	.85	1.5	2.2	2.3	3.4	4.0	4.2	9.3	.99	1.1	.55	1.4
21	.80	1.6	2.2	3.7	3.1	9.0	3.7	6.8	.97	.99	.53	2.1
22	.78	1.4	2.0	5.0	17	5.5	3.5	4.4	1.1	.89	.51	1.5
23	.76	1.4	1.7	6.6	14	4.0	3.5	4.5	2.9	.92	.51	1.3
24	.74	1.1	1.6	4.7	6.4	3.0	5.5	3.4	1.4	.77	1.3	1.0
25	1.0	1.0	1.5	3.8	5.1	4.0	4.8	2.7	1.2	.85	1.9	.94
26	.80	.95	1.4	3.5	4.2	3.0	4.0	2.2	1.0	.82	.92	.99
27	.75	.90	1.4	3.9	3.7	25	3.7	1.9	.98	.73	.71	.95
28	.70	1.5	1.6	5.3	3.7	13	3.4	1.7	1.0	.69	.62	.92
29	.68	6.0	1.9	3.7	---	10	3.1	1.7	1.1	.68	.57	.90
30	.66	5.0	1.5	3.3	---	6.0	2.9	1.6	1.1	.68	.55	.96
31	.64	---	1.5	3.0	---	8.0	---	1.3	---	.92	1.6	---
TOTAL	51.53	40.55	109.9	107.6	175.6	213.3	278.6	31.6	39.44	37.03	25.69	73.28
MEAN	1.66	1.35	3.55	3.47	6.27	6.88	9.29	2.63	1.31	1.19	.83	2.44
MAX	14	6.0	15	7.6	30	30	70	9.3	2.9	4.0	2.9	17
MIN	.47	.53	1.4	1.5	2.9	2.4	2.9	1.3	.97	.68	.51	.76
CFSM	.94	.76	2.01	1.96	3.54	3.39	5.25	1.49	.74	.67	.47	1.38
IN.	1.03	.85	2.31	2.26	3.69	4.48	5.85	1.71	.83	.78	.54	1.54

CAL YR 1982 TOTAL 778.80 MEAN 2.13 MAX 21 MIN .47 CFSM 1.20 IN 16.36
WTR YR 1983 TOTAL 1234.12 MEAN 3.38 MAX 70 MIN .47 CFSM 1.91 IN 25.92

02192000 BROAD RIVER NEAR BELL, GA.

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

DRAINAGE AREA.--1,430 mi², approximately.

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, National Geodetic Vertical Datum of 1929. Prior to October 1928, nonrecording gage at railroad bridge about 1 mi downstream at datum 1.12 ft lower. October 1928 to July 1932, and August 1937 to January 1939, nonrecording gage at present site and datum.

REMARKS.--Records good except those for periods of no gage-height record, Jan. 5-24 and July 31 to Aug. 25, which are fair.

Records of chemical analyses for the 1970-79 water years are in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--52 years, 1,809 ft³/s, 17.18 in./yr.

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

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 28	1830	17100	19.34	Apr. 9	2030	*26400	23.87

Minimum daily discharge, 350 ft³/s Aug. 21, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	465	581	5330	1540	1650	2520	4150	1750	1250	1040	600	472
2	458	534	4790	3470	2940	2490	3400	1720	1250	1610	1100	568
3	452	595	2760	7750	6230	2150	3600	1700	1210	1130	800	1520
4	444	724	2090	5000	4190	1980	3170	1350	1180	970	840	1910
5	442	1410	1780	3200	2730	1890	2730	1800	1160	940	740	1430
6	440	1010	2950	2500	3260	4540	2350	1650	1190	1230	700	1070
7	437	813	3060	2200	5050	7990	3430	1580	1380	1450	680	902
8	455	737	2080	2000	3660	4170	7990	1570	1600	1050	660	780
9	566	702	1690	1800	2760	3210	25000	1670	1560	940	640	673
10	634	683	1480	1700	2410	2650	23800	1560	1970	880	610	621
11	963	668	1550	1600	2690	2340	13000	1500	1480	830	570	593
12	1860	670	7190	1550	2550	2140	5100	1470	1240	780	520	566
13	1890	981	8740	1500	2150	2010	3870	1430	1150	750	490	668
14	4420	1190	3900	1450	5920	1920	3320	1440	1110	736	460	1050
15	2990	969	2640	1400	9910	1850	3150	1450	1080	708	440	961
16	1560	833	2770	1350	5200	1810	3030	1600	1060	694	420	776
17	1140	774	2910	1300	2810	1920	2670	2200	1050	678	400	677
18	939	767	2240	1300	2380	2230	2490	1710	1050	761	380	632
19	830	895	1940	1250	2110	2070	2490	1530	1060	742	370	602
20	771	1200	1890	1250	1950	1860	2320	2130	1160	696	360	608
21	740	1240	1730	1300	1830	3060	2180	3110	1220	652	350	752
22	716	1090	1550	1500	2110	3830	2090	2220	1080	632	350	949
23	682	1060	1440	2000	9540	2580	2080	2040	1440	602	360	906
24	650	1000	1380	3000	11300	2710	2400	1890	1420	588	360	738
25	627	922	1340	2900	4410	4480	2360	1610	1170	583	485	663
26	622	857	1310	2320	3040	5160	2070	1470	1030	589	552	623
27	617	824	1280	2010	2560	9170	1950	1380	979	599	511	604
28	603	824	1280	2670	2310	15900	1870	1310	965	586	489	591
29	595	1250	1700	2380	---	11000	1820	1290	1020	576	469	573
30	589	2890	1950	1950	---	4470	1780	1470	1120	574	454	561
31	585	---	1690	1780	---	4100	---	1340	---	560	420	---
TOTAL	29182	28743	80430	68920	109650	120200	142160	52440	36634	25156	16580	24039
MEAN	941	958	2595	2223	3916	3877	4739	1692	1221	811	535	801
MAX	4420	2890	8740	7750	11300	15900	25000	3110	1970	1610	1100	1910
MIN	437	531	1280	1250	1650	1810	1780	1290	965	560	350	472
CFSM	.66	.67	1.82	1.56	2.74	2.71	3.31	1.18	.95	.57	.37	.56
IN.	.76	.75	2.09	1.79	2.85	3.13	3.70	1.36	.95	.65	.43	.63
CAL YR 1982	TOTAL	672590	MEAN	1843	MAX	22200	MIN	437	CFSM	1.29	IN	17.50
WTR YR 1983	TOTAL	734134	MEAN	2011	MAX	25000	MIN	350	CFSM	1.41	IN	19.10

02196820 BUTLER CREEK AT FORT GORDON, GA.

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

DRAINAGE AREA.--7.5 mi².

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

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

REMARKS.--Records fair except those for periods of no gage-height record, May 16 to June 2 and June 13-23, which are poor.

AVERAGE DISCHARGE.--15 years, 8.27 ft³/s, 14.97 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 500 ft³/s Mar. 3, 1971, gage height, 7.00 ft, from floodmark; minimum daily discharge, 0.10 ft³/s June 29, July 21, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 150 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 6	1100	174	3.99	Aug. 6	2400	211	4.40
Apr. 8	1830	*366	5.90	Sept. 14	0130	152	3.72

Minimum daily discharge, 0.58 ft³/s July 22-24.

REVISIONS.--The maximum discharges and peak discharges for the 1969-82 water years have been revised or unpublished as shown in the following table. Peak discharges above base of 150 ft³/s, revised discharges (c), from floodmark (†), and water year maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Apr. 15, 1969	unknown	*389	†6.10	Apr. 5, 1974	0430	*142	3.60	Oct. 13, 1978	unknown	151	†3.71
Mar. 30, 1970	2130	*c213	4.43	Apr. 3, 1975	0700	*c346	5.73	Feb. 24, 1979	unknown	270	†5.00
Dec. 16, 1970	1545	243	4.74	May 9, 1975	1545	202	4.31	July 19, 1979	2215	*412	6.30
Mar. 3, 1971	unknown	*500	†7.00	Nov. 7, 1975	1445	154	3.74	July 21, 1979	0315	281	5.11
May 13, 1971	0330	215	4.45	Mar. 16, 1976	1445	175	4.00	Oct. 4, 1979	1945	c248	4.79
Nov. 24, 1972	1830	155	3.94	July 7, 1976	unknown	*c294	†5.24	Mar. 13, 1980	0130	*c341	5.68
Jan. 14, 1972	0230	135	3.75	Oct. 9, 1976	0430	144	3.62	Mar. 18, 1980	0330	c150	3.70
June 20, 1972	0345	*c180	4.06	Mar. 21, 1977	unknown	*c315	†5.44	Mar. 30, 1980	1215	c157	3.79
Feb. 2, 1973	1015	256	4.86	Jan. 19, 1978	1615	169	3.93	Feb. 11, 1981	0800	c199	4.27
Mar. 12, 1973	0315	314	5.43	Jan. 26, 1978	0045	*c298	5.28	Aug. 10, 1981	2300	*445	6.57
Apr. 7, 1973	1930	*369	5.93	May 9, 1978	1315	254	4.84	Dec. 31, 1981	1815	*c265	4.95
July 11, 1973	1930	*304	5.33	July 16, 1978	2000	289	5.19	Aug. 6, 1982	0045	c164	3.87

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	2.8	14	16	11	35	17	8.8	2.7	3.8	.97	7.1
2	.99	2.7	7.1	35	39	16	19	8.3	2.6	2.5	11	3.9
3	.97	5.0	5.7	24	18	13	15	10	2.5	2.0	13	7.7
4	.96	15	5.1	14	13	12	13	18	2.4	1.8	3.2	3.1
5	.94	8.7	5.2	11	12	11	12	9.4	2.2	1.5	1.9	3.0
6	.92	4.4	7.4	11	20	81	12	7.8	2.4	1.8	15	4.8
7	.90	3.7	5.2	9.6	15	26	33	7.2	21	1.7	54	2.1
8	1.1	3.5	4.4	8.8	12	19	118	7.1	20	1.4	17	1.6
9	1.5	3.4	4.3	12	11	16	76	7.2	7.4	1.1	5.3	2.1
10	10	3.3	4.1	13	13	14	46	6.5	4.3	1.0	3.1	2.4
11	16	3.3	21	9.8	21	13	26	6.2	3.3	.87	2.2	1.8
12	4.4	3.9	42	8.2	13	12	21	5.8	2.9	.82	1.8	1.4
13	27	12	12	7.5	20	12	18	6.0	3.9	1.0	1.5	27
14	22	5.4	7.8	7.4	92	11	17	6.0	3.1	.96	1.3	54
15	6.7	4.2	7.3	7.3	26	11	20	5.6	2.8	.85	1.2	9.2
16	3.9	3.7	23	6.8	18	12	17	5.9	2.6	.79	1.1	4.3
17	3.0	3.8	10	6.8	25	40	14	5.5	2.4	.79	1.0	3.1
18	2.7	4.5	7.6	6.6	16	22	18	5.2	2.4	.68	1.0	2.5
19	2.6	4.8	8.6	6.3	14	15	16	5.0	3.4	.64	1.0	2.2
20	2.5	4.3	7.6	6.4	13	14	13	4.6	2.8	.68	.94	18
21	2.6	4.4	6.0	38	12	47	12	4.5	2.9	.69	.90	12
22	2.7	4.2	5.6	45	18	18	12	4.2	3.0	.58	.82	7.7
23	2.7	4.4	5.4	19	33	15	20	4.0	12	.58	.75	4.3
24	2.4	4.1	5.7	13	16	22	23	3.9	5.3	.58	.73	2.9
25	2.7	3.8	6.3	11	16	24	14	3.7	3.2	1.8	1.0	2.4
26	3.2	4.0	5.3	9.8	12	16	11	3.7	2.3	3.6	3.6	2.2
27	2.6	4.8	5.4	17	11	41	10	3.3	2.0	1.4	1.8	2.2
28	2.4	4.8	9.4	30	15	21	9.5	3.2	1.9	.86	1.3	2.0
29	2.3	9.5	60	14	---	16	9.1	3.1	2.7	.67	.94	1.9
30	2.4	12	20	14	---	15	8.8	3.0	3.8	.67	.85	1.9
31	2.6	---	27	11	---	24	---	2.9	---	.93	1.5	---
TOTAL	138.68	158.4	365.5	449.3	555	664	670.4	195.6	136.2	39.04	151.70	200.8
MEAN	4.47	5.28	11.8	14.5	19.8	21.4	22.3	5.99	4.54	1.26	4.89	6.69
MAX	27	15	60	45	92	81	118	18	21	3.8	54	54
MIN	.90	2.7	4.1	6.3	11	11	8.8	2.9	1.9	.58	.73	1.4
CFSM	.60	.70	1.57	1.93	2.64	2.35	2.97	.80	.61	.17	.65	.89
IN.	.69	.79	1.81	2.23	2.75	3.29	3.32	.92	.68	.19	.75	1.00
CAL YR 1982	TOTAL	2685.75	MEAN	7.36	MAX	60	MIN	.67	CFSM	.98	IN	13.32
WTR YR 1983	TOTAL	3714.62	MEAN	10.2	MAX	118	MIN	.58	CFSM	1.36	IN	18.42

02197000 SAVANNAH RIVER AT AUGUSTA, GA.

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

DRAINAGE AREA.--7,508 mi², including that of Butler Creek.

WATER-DISCHARGE RECORDS

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

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

GAGE.--Water-stage recorder. Datum of gage is 96.58 ft, National Geodetic Vertical Datum of 1929 (U.S. Army 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, NGVD (levels by Southeastern Engineering Co.). Oct. 1, 1932 to Sept. 30, 1936, recording gage at Thirteenth Street Bridge at datum 104.56 ft, NGVD (levels by U.S. Army Corps of Engineers). Oct. 1, 1936 to Nov. 10, 1948, recording gage at site 0.2 mi downstream from present site and at present datum.

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

AVERAGE DISCHARGE.--76 years (1884-91, 1897-1906, 1926-83), 10,200 ft³/s, 18.45 in/yr, unadjusted.

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

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 66,100 ft³/s Apr. 10, gage height, 23.21 ft; minimum daily discharge, 5,080 ft³/s Dec. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6410	5530	6220	12900	13400	19300	18800	10600	7280	9560	5600	6250
2	6030	5740	6230	10500	15500	21200	17600	7270	7860	2050	5540	6260
3	6640	5790	6330	10900	19300	21100	13800	10100	8440	6320	6080	6190
4	6900	5900	6520	14300	19400	20200	12500	13100	7790	5820	6670	6150
5	6830	6050	6160	16000	14400	18700	14900	10500	7290	5670	6760	5710
6	7280	6220	6030	16100	10700	16700	16200	10200	6690	6520	6400	5890
7	7150	6010	6010	16000	12100	22700	19300	7690	7410	7080	6310	6100
8	7240	6510	5970	14300	16100	26200	22800	7040	8810	7150	6020	6140
9	7650	6440	5930	10900	15200	21600	51100	6680	10900	6900	7060	7650
10	6270	6120	6240	10000	14800	19600	64400	8190	11700	5580	8970	7060
11	6050	5960	6470	12500	14700	18300	53000	9490	8360	5150	8520	6340
12	7580	5330	6790	13800	13300	16900	41000	9220	6380	5420	9030	5800
13	9440	5800	8360	13800	10100	13800	37600	8970	6180	6530	6730	5620
14	7910	5950	11100	13800	14100	12900	35000	7740	8120	9930	5870	8320
15	6280	6010	10900	12000	29400	16600	34300	7310	11100	8530	5790	8780
16	5970	6020	10500	8980	28300	16800	31700	6700	15800	6180	6330	6940
17	5840	6050	10500	9100	22500	17500	25500	7090	14600	5900	6600	6480
18	6040	6030	8020	12500	22500	18900	25800	8400	12700	5920	6190	6440
19	6510	6070	5080	13000	19200	18800	27200	8470	7630	5980	6560	5880
20	5910	6050	6630	13300	15000	14700	27400	7760	8480	5960	8090	6230
21	6600	5390	14500	13600	12900	11500	27200	7480	13400	5960	6760	6570
22	5990	5620	13100	15000	15600	15500	26000	6670	13500	6230	5780	6730
23	6610	5820	12100	15500	18200	14500	20900	6380	13500	6700	5490	6960
24	7930	6020	11200	15100	23600	12600	17200	8710	13400	5810	7130	7020
25	6720	6130	10000	18900	22100	13000	14700	7540	11900	5790	7520	6480
26	6870	6050	7230	18200	19600	13100	18900	7490	6950	6310	6690	5770
27	6320	5900	8240	17800	14700	13300	19100	7990	6770	6540	6050	6080
28	6010	5990	9780	18300	15100	14000	19100	8060	9330	6360	5840	6310
29	6000	6000	12600	17000	---	18200	18600	7030	9770	6110	5640	5990
30	6580	5750	15000	12300	---	18100	14700	6520	9690	5620	5780	5870
31	6040	---	14700	10900	---	17800	---	7160	---	5580	5950	---
TOTAL	207600	179250	274490	427180	481800	534100	786300	255550	291730	201160	203750	194010
MEAN	6697	5975	8855	13780	17210	17230	26210	8244	9724	6489	6573	6467
MAX	9440	6510	15000	18900	29400	26200	64400	13100	15800	9930	9030	8780
MIN	5840	5530	5080	8980	10100	11500	12500	6320	6180	5150	5490	5620

CAL YR 1982 TOTAL 2704320 MEAN 7409 MAX 25500 MIN 4650 MEAN+ 8987 CFSM+ 1.20 IN+ 16.25
WTR YR 1983 TOTAL 4036920 MEAN 11060 MAX 64400 MIN 5080 MEAN+ 10880 CFSM+ 1.45 IN+ 19.67

+ ADJUSTED FOR CHANGE IN CONTENTS IN LAKE BURTON, MATHIS RESERVOIR, HARTWELL LAKE, AND CLARKS HILL RESERVOIR.

SAVANNAH RIVER BASIN

02197000 SAVANNAH RIVER AT AUGUSTA, GA.--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1973 to current year.

INSTRUMENTATION.--Water-temperature recorder since October 1973.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 26.5°C Aug. 14-17, 1981; minimum, 4.5°C Jan. 30, 31, Feb. 2, 4, 1977, Feb. 19, 20, 1979, Jan. 12, 1982.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 24.5°C Aug. 9, 23, 29, 30, Sept. 6, 7; minimum, 6.0°C Jan. 23, 24.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

[illegible]

SAVANNAH RIVER BASIN

02197320 SAVANNAH RIVER NEAR JACKSON, S.C.

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

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1971 to current year, discharge defined below 20,000 ft³/s, only.

GAGE.--Water-stage recorder. Datum of gage is 77.0 ft, National Geodetic Vertical Datum of 1929.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, undetermined, Apr. 11, 1983; maximum gage height, 21.57 ft Apr. 11, 1983; minimum daily discharge, 3,220 ft³/s Dec. 9, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, undetermined Apr. 11; maximum gage height, 21.57 ft Apr. 11; minimum daily discharge, 5,050 ft³/s Dec. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7310	5840	5700	15500	14200	18100	13900	16700	7500	10500	5650	6260
2	5970	5640	6240	13100	15500	19300	19200	11800	7700	10200	5770	6720
3	6060	5750	6070	11200	17200	20200	18600	9670	8360	7930	5910	6670
4	6630	5950	6260	13900	18900	20500	16100	12700	6540	6900	6500	6510
5	6500	6220	6160	15400	19100	20500	15600	13300	7630	6350	6810	6090
6	6940	6470	5900	16600	16700	20200	16400	11300	7370	6490	6770	5840
7	7180	6350	5840	16800	13200	20000	17600	11200	7150	7380	6460	6110
8	7190	6190	5760	16700	14900	21100	19000	9090	8340	7600	6420	6300
9	7690	6650	5730	14600	16600	---	20700	7320	10500	7660	6590	6960
10	6930	6340	5780	11500	16400	21700	90000	7800	12200	6850	8110	7750
11	6230	6090	6140	11700	16200	20900	---	9430	11600	5710	8920	7000
12	6730	5930	6600	13700	15900	20100	---	9850	7310	5550	9090	6370
13	3720	5850	7230	14600	14000	18800	---	9600	6750	6060	8090	5250
14	9560	5890	10200	14500	12000	16400	---	8960	7290	9260	6370	7020
15	7620	6060	11300	14300	17300	16500	---	7790	9730	10100	5800	9640
16	6530	6060	11100	11600	20600	17500	---	7510	13900	7640	6000	8610
17	6100	6080	10700	8610	---	18100	---	6930	15600	6410	6430	7250
18	6010	6070	9900	11200	---	18800	---	3110	15600	6320	6360	6910
19	5990	6070	6920	13200	21900	19500	---	8820	11500	6170	6310	6410
20	6220	6080	5050	13600	20800	19200	---	8510	8650	6340	7290	6080
21	5770	6020	10400	14000	18100	16800	---	8010	11700	6240	7480	6520
22	6080	5750	14000	15200	16900	15600	---	7420	14500	6390	6330	6810
23	5740	5690	13200	16100	17500	16600	---	6610	15000	6740	5620	7010
24	7140	5900	12100	16500	18900	15700	21900	7900	15200	6520	5920	7140
25	7270	6010	11100	17100	20500	14800	20100	8340	14800	5990	7390	6860
26	6650	6070	8780	18300	21100	14500	19000	8010	11300	6210	7270	6220
27	6650	5900	7110	18600	20400	14700	19400	8150	7640	6670	6570	5350
28	6190	5690	9470	18800	15200	14700	19600	8470	8890	6530	6080	5200
29	5960	5870	10600	19100	---	16400	19700	7850	10600	6320	5790	6180
30	6310	5790	14300	17900	---	18000	19300	7000	11000	5900	5640	5900
31	6250	---	15700	14300	---	18600	---	7050	---	5640	5790	---
TOTAL	208120	180470	271340	458210	---	---	---	281310	314900	215470	205440	201040
MEAN	6714	6016	8753	14780	---	---	---	9075	10500	6951	6627	6701
MAX	9560	6650	15700	19100	---	---	---	16700	15600	10500	9090	9640
MIN	5740	5640	5050	8610	---	---	---	6610	6750	5550	5620	5340
CAL YR 1982	TOTAL	2740850	MEAN	7509	MAX	20400	MIN	5050	MEAN	9087		

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE BURTON, MATHIS RESERVOIR, HARTWELL LAKE, AND CLARKS HILL RESERVOIR.

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.

INSTRUMENTATION.--Water-temperature recorder since October 1971.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 26.5°C July 21, 1981; minimum, 4.5°C Jan. 19, 20, 22, 23, Feb. 1, 1977, Feb. 9, 1978, Jan. 12, 1982.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 25.5°C Aug. 23, 24; minimum, 6.0°C Jan. 24.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	22.0	21.0	18.5	17.5	16.5	16.0	11.5	11.0	10.0	9.5	9.0	8.5
2	22.0	21.0	19.0	18.5	16.5	16.0	11.0	10.5	10.5	10.0	10.0	9.0
3	22.0	21.5	19.0	18.5	17.0	16.5	11.0	10.5	10.5	9.5	10.5	9.5
4	22.5	21.5	19.5	13.5	17.0	16.5	10.5	9.5	9.5	9.0	11.0	10.5
5	23.0	21.5	19.5	16.5	17.5	17.0	10.0	9.5	9.0	8.0	11.5	11.0
6	23.5	22.0	16.5	15.5	17.5	16.5	10.0	9.5	8.0	8.0	13.0	11.5
7	23.0	22.0	15.0	14.5	16.5	16.0	10.0	10.0	8.5	7.5	14.5	13.5
8	22.5	22.0	14.5	14.0	16.0	15.0	10.5	10.0	8.0	7.5	14.5	14.0
9	22.5	22.0	15.0	14.0	15.0	14.5	10.0	9.5	8.0	7.5	14.5	13.5
10	22.5	22.0	15.5	14.5	15.0	14.0	10.0	9.5	8.0	8.0	13.5	11.5
11	22.5	22.0	16.0	15.0	14.0	13.5	10.0	9.5	8.0	8.0	11.5	10.5
12	22.5	22.0	17.0	16.0	14.0	13.0	10.0	10.0	8.0	8.0	10.5	10.0
13	22.5	22.0	17.0	16.0	12.5	11.5	9.5	9.0	8.0	7.5	11.0	10.5
14	22.0	21.5	15.0	15.5	11.5	11.0	9.5	9.0	7.5	7.0	12.0	11.0
15	22.0	21.0	15.5	14.5	12.0	11.0	9.5	9.0	8.0	7.0	12.0	11.0
16	21.5	21.0	14.5	13.5	13.5	12.0	9.5	8.5	8.0	7.0	11.5	11.0
17	21.0	20.5	14.5	14.0	13.0	12.5	9.0	8.5	9.0	8.0	11.0	11.0
18	20.5	19.5	15.0	14.5	12.5	11.5	9.0	8.5	9.0	8.5	11.0	11.0
19	20.5	19.5	15.5	15.0	11.0	10.0	8.5	8.0	9.0	8.5	12.5	11.0
20	20.5	19.5	16.0	15.5	10.5	10.0	8.0	7.5	9.5	9.0	13.0	12.0
21	20.5	18.5	16.5	16.0	11.0	10.0	7.5	7.0	9.5	9.0	13.5	12.5
22	19.5	18.5	17.0	16.0	11.5	11.0	7.5	7.0	9.5	9.5	12.5	11.5
23	18.5	17.5	17.0	16.5	11.5	11.0	7.5	6.5	10.0	9.5	11.5	11.0
24	17.5	16.0	17.0	16.5	12.0	11.5	6.5	6.0	10.0	9.0	11.5	10.5
25	16.0	15.5	16.5	15.5	13.0	12.0	7.5	6.5	10.5	10.0	10.5	10.0
26	16.0	15.0	15.5	15.5	13.5	13.0	8.0	7.5	10.0	9.0	11.0	9.5
27	16.5	15.5	15.5	15.0	14.0	13.5	8.0	8.0	9.0	9.0	11.5	11.0
28	17.0	16.0	15.5	15.0	14.0	13.5	8.0	8.0	9.0	8.5	12.0	11.5
29	17.0	16.5	16.5	15.0	14.0	13.5	8.5	8.0	---	---	12.5	11.5
30	17.5	16.5	16.0	15.5	13.5	12.0	9.0	8.5	---	---	12.5	11.5
31	18.0	17.0	---	---	12.0	11.5	9.5	9.0	---	---	12.5	12.0
MONTH	23.5	15.0	19.5	13.5	17.5	10.0	11.5	6.0	10.5	7.0	14.5	8.5

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

[illegible]

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

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

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1971 to current year.

INSTRUMENTATION.--Water-temperature recorder since October 1971.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 31.5°C Sept. 7, 1982; minimum, 4.0°C Jan. 20, 1977.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 28.0°C Sept. 8; minimum, 6.5°C Jan. 24, 25.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

[illegible]

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

LOCATION.--Lat 32°56'20", long 81°30'10", Screven County, Ga.--Allendale County, S.C., Hydrologic Unit 03060106, on right bank 500 ft downstream of bridge on U.S. Highway 301, 2.0 mi downstream from Rocky Creek, 9.0 mi east of Millhaven, and at mile 129.2.

DRAINAGE AREA.--8,650 mi², approximately.

PERIOD OF RECORD.--October 1939 to September 1970, October 1982 to September 1983.

GAGE.--Water-stage recorder. Datum of gage is 54.42 ft, National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--32 years, 10,580 ft³/s, 16.61 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 141,000 ft³/s Aug. 18, 1940; gage height, 27.0 ft; minimum daily, 2,120 ft³/s Sept. 9, 1951.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in October 1929 reached a stage of 30.8 ft, from information by Corps of Engineers, discharge, 220,000 ft³/s from rating curve extended above 141,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, unknown; minimum daily discharge, 5,870 ft³/s July 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1932 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9110	5950	6120	15500	19400	22700	17600	16000	7500	10600	6060	6400
2	8420	6010	6300	16100	18200	22000	18400	15000	7740	10300	6180	7260
3	6570	6200	6630	15200	17700	21400	19000	14800	8040	9540	6390	7540
4	6770	6400	6590	13700	17700	21200	19400	13400	8560	7910	6760	7300
5	7160	6600	6770	14700	18200	21600	19100	13300	8530	7090	7280	6950
6	7130	6800	6690	15700	18900	22700	18200	12900	8030	6840	7330	6500
7	7580	6600	6530	16500	15900	23600	17700	11600	7800	7080	7100	6330
8	7630	6500	6480	17100	17600	23800	17800	10800	8310	7600	6880	6560
9	7660	7000	6420	17400	17000	23700	15400	8900	9610	7710	6750	6720
10	7640	6700	6370	16700	17000	24200	19500	7780	10900	7620	7170	7450
11	6240	6500	6500	14400	17100	25300	21300	3330	11900	6760	8460	7640
12	3400	6400	7100	13500	17100	25300	31300	9360	11000	5940	8810	7070
13	9380	6400	7700	14300	17000	25300	43500	9550	8360	5870	9010	6480
14	8210	6300	5580	14800	16700	24000	57000	9360	7290	6610	7860	6330
15	7110	6300	10600	15000	16000	22100	58000	8670	8060	9790	6610	7940
16	6570	6260	11300	14700	17100	20300	54000	7970	10300	9230	6140	9280
17	6380	6260	11200	12200	18600	19600	48000	7560	13000	7580	6380	8360
18	6330	6300	11000	10100	20300	19400	43000	7410	14200	6770	6700	7380
19	6480	6230	9730	11900	22800	19600	40000	8330	14300	6620	6570	7020
20	6240	5310	7280	13200	25200	19900	37000	3760	11500	6470	6700	6450
21	6500	6320	6680	13800	26100	20300	35000	8470	9570	6490	7620	6470
22	5380	6250	11300	14700	25200	20100	33000	8120	12000	6430	7340	6970
23	7230	6030	13300	15600	23400	19100	32000	7580	14000	6650	6440	7210
24	7610	6060	13200	16300	21800	18400	30000	7060	14300	6950	5880	7320
25	7150	6230	12400	16800	20900	17800	28000	8280	15000	6580	6560	7360
26	7060	6320	11300	17200	20900	17300	26000	8360	14500	6320	7510	7020
27	6640	6350	9080	17900	21500	16400	24000	8270	11100	6610	7280	6410
28	6360	6230	8440	13300	22400	16100	22000	8430	8400	6890	6730	6240
29	6530	6260	9950	19600	---	15900	20000	8550	9320	6710	6330	6480
30	6590	6270	11900	20200	---	16200	19000	7960	10300	6510	6040	6360
31	6240	---	14300	20400	---	16900	---	7360	---	6240	5950	---
TOTAL	221900	190690	277740	434000	550700	642400	866200	298240	313920	225310	214820	210800
MEAN	7158	6356	8959	15610	19670	20720	29540	9621	10460	7263	6930	7027
MAX	9380	7000	14300	20400	26100	25800	58000	16000	15000	10600	9010	9280
MIN	6240	5950	6120	10100	16000	15900	17600	7060	7290	5870	5880	6240

WTR YR 1983 TOTAL 4516720 MEAN 12370 MAX 53000 MIN 5870 MEAN+ 12190 CFSM+ 1.41 IN+ 19.14

+ ADJUSTED FOR CHANGE IN CONTENTS IN LAKE BURTON, MATHIS RESERVOIR, HARTWELL LAKE, AND CLARKS HILL RESERVOIR.

SAVANNAH RIVER BASIN

02197520 BRIER CREEK NEAR THOMSON, GA.

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

DRAINAGE AREA.--55 mi², approximately.

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

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

REMARKS.--Records fair except those of beaverdam effect, Oct. 1-13, which are poor.

AVERAGE DISCHARGE.--16 years, 49.1 ft³/s, 12.12 in/yr.

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 22	0600	1190	10.72	Mar. 6	1700	2830	14.83
Feb. 14	2100	1930	12.82	Apr. 9	0200	*3990	16.80

Minimum daily discharge, 0.43 ft³/s July 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.9	12	107	88	194	158	60	6.6	13	.97	2.0
2	1.0	2.2	9.9	272	237	122	129	56	5.9	6.2	2.2	1.6
3	1.0	2.5	8.1	346	198	86	117	52	5.3	3.8	1.9	1.5
4	1.0	10	7.0	134	109	74	94	78	5.0	2.8	7.2	1.5
5	1.0	12	7.2	93	87	70	84	62	5.0	3.0	2.1	1.3
6	.95	5.7	19	78	135	1190	81	51	6.7	3.8	1.8	1.1
7	.95	4.0	13	67	148	486	100	42	7.7	2.6	1.7	.93
8	2.2	3.3	8.9	60	99	262	632	37	28	2.0	1.8	1.0
9	4.0	3.2	7.3	59	84	230	2050	32	12	2.0	1.5	.99
10	3.3	3.0	6.4	71	80	134	863	29	7.3	1.9	1.5	1.2
11	2.7	3.1	26	59	97	109	277	26	5.2	1.7	1.2	1.3
12	4.3	3.8	118	50	80	95	180	24	4.2	1.6	1.1	1.3
13	14	9.0	52	42	83	86	141	22	3.4	1.7	1.1	1.9
14	24	6.5	30	39	1040	77	118	20	3.4	1.5	1.1	5.4
15	6.5	5.5	24	40	731	72	169	18	3.1	1.6	.89	2.1
16	3.3	4.4	79	37	206	71	146	20	2.8	1.6	.81	1.7
17	2.3	3.9	52	36	155	189	102	21	3.1	1.4	.80	1.5
18	2.3	4.4	32	33	118	216	103	16	2.8	1.1	1.1	1.3
19	1.9	5.9	29	30	99	124	120	16	3.2	1.1	1.3	1.5
20	1.9	5.3	29	29	87	97	88	22	3.2	1.1	1.3	2.4
21	1.9	5.2	24	178	79	363	78	26	3.6	1.0	1.4	6.4
22	1.6	4.8	21	881	86	171	73	18	4.6	.86	.96	2.8
23	1.5	4.9	19	375	171	111	83	15	18	.78	.61	1.1
24	1.5	4.4	19	201	106	142	274	13	17	.74	.52	.75
25	1.6	3.9	19	133	107	264	130	11	7.9	.67	.89	.68
26	1.7	3.7	18	104	83	195	88	10	4.6	.89	.77	.65
27	1.6	4.7	17	109	72	463	75	9.1	3.4	.58	.76	.61
28	1.7	4.5	21	211	73	346	70	8.0	3.2	.52	.69	.62
29	1.7	12	488	127	---	158	67	7.4	4.3	.43	.68	.70
30	1.8	13	215	115	---	124	64	10	13	.46	.56	.73
31	1.7	---	147	101	---	180	---	9.0	---	.61	.61	---
TOTAL	98.00	161.2	1577.8	4217	4738	6501	6754	840.5	203.5	63.04	41.82	48.56
MEAN	3.16	5.37	50.9	136	169	210	225	27.1	6.78	2.03	1.35	1.62
MAX	24	13	488	881	1040	1190	2050	78	28	13	7.2	6.4
MIN	.95	1.9	6.4	29	72	70	64	7.4	2.8	.43	.52	.61
CFSM	.06	.10	.93	2.47	3.07	3.82	4.09	.49	.12	.04	.03	.03
IN.	.07	.11	1.07	2.85	3.20	4.40	4.57	.57	.14	.04	.03	.03
CAL YR 1982	TOTAL	15693.00	MEAN	43.0	MAX	1010	MIN	.95	CFSM	.78	IN	10.61
WTR YR 1983	TOTAL	25244.42	MEAN	69.2	MAX	2050	MIN	.43	CFSM	1.26	IN	17.07

SAVANNAH RIVER BASIN

39

02197600 BRUSHY CREEK NEAR WRENS, GA.

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

DRAINAGE AREA.--28.0 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 282.56 ft, National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation).

REMARKS.--Records good except for period of no gage-height record, Apr. 13-27, which are fair. Discharge during growing season affected by undetermined amount of irrigation withdrawal. Moderate diurnal fluctuation at low flow.

AVERAGE DISCHARGE.--25 years, 26.7 ft³/s, 12.95 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.03 ft Mar. 3, 1971 (discharge not determined); minimum daily discharge, 4.0 ft³/s July 24, 25, 27-29, 1981.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 14	1900	*375	5.58

Minimum daily discharge, 6.7 ft³/s Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	9.4	26	34	26	39	44	22	13	40	9.9	53
2	7.8	9.6	18	64	120	29	42	21	12	50	13	20
3	7.6	11	21	65	90	23	38	24	12	23	12	27
4	7.6	23	17	42	40	20	32	36	12	51	15	24
5	7.6	22	17	30	32	18	30	26	12	23	11	17
6	7.5	14	18	24	39	135	28	22	13	18	10	21
7	7.7	13	15	22	36	93	28	21	50	17	9.9	14
8	8.4	12	14	21	30	57	45	20	75	15	9.8	13
9	9.9	12	13	24	27	42	140	19	33	14	9.7	12
10	9.2	11	12	31	27	31	131	19	22	13	9.3	12
11	9.3	11	21	25	32	28	71	18	18	13	8.9	11
12	9.3	12	58	22	29	29	52	17	16	13	9.5	10
13	28	25	34	20	41	27	40	17	21	13	11	28
14	29	17	25	19	292	25	38	17	17	12	8.5	76
15	15	14	19	18	201	25	44	16	15	13	8.6	29
16	12	13	25	18	93	26	37	16	14	13	8.3	19
17	10	13	19	17	64	79	32	16	13	12	7.6	16
18	10	15	16	17	48	58	39	15	13	11	8.0	14
19	9.7	16	16	17	38	36	35	16	19	11	7.4	13
20	9.5	14	16	16	31	38	29	16	15	10	7.3	18
21	9.8	14	15	60	25	161	27	16	16	9.8	7.7	16
22	9.9	13	14	146	25	88	26	15	16	9.5	7.6	16
23	9.6	13	13	68	59	52	44	15	25	8.9	7.2	14
24	9.5	13	13	43	44	58	50	14	19	9.0	6.7	13
25	9.6	12	13	35	33	67	40	14	14	11	13	13
26	9.6	12	12	30	27	46	35	14	13	13	21	12
27	9.4	13	12	34	22	100	32	15	12	11	11	12
28	9.3	18	13	63	22	81	29	14	12	10	9.8	11
29	9.3	20	94	40	---	52	24	13	30	9.6	9.2	11
30	9.3	17	59	36	---	42	23	13	29	9.6	8.9	11
31	9.4	---	45	30	---	49	---	13	---	10	8.6	---
TOTAL	327.6	432.0	723	1131	1593	1654	1305	550	601	496.4	305.4	576
MEAN	10.6	14.4	23.3	36.5	56.9	53.4	43.5	17.7	20.0	16.0	9.85	19.2
MAX	29	25	94	146	292	161	140	36	75	51	21	76
MIN	7.5	9.4	12	16	22	18	23	13	12	9.9	6.7	10
CFSM	.38	.51	.33	1.30	2.03	1.91	1.55	.63	.71	.57	.35	.69
IN.	.44	.57	.76	1.50	2.12	2.20	1.73	.73	.90	.66	.41	.77
CAL YR 1982	TOTAL	6949.7	MEAN 19.0	MAX 172	MIN 7.5	CFSM .68	IN 9.23					
WTR YR 1983	TOTAL	9594.4	MEAN 26.6	MAX 292	MIN 6.7	CFSM .95	IN 12.38					

SAVANNAH RIVER BASIN

02197830 BRIER CREEK NEAR WAYNESBORO, GA.

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

DRAINAGE AREA.--473 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 173.78 ft, National Geodetic Vertical Datum of 1929.

REMARKS.--Records good.

AVERAGE DISCHARGE.--14 years, 486 ft³/s, 13.95 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,800 ft³/s Mar. 15, 1971, gage height, 12.28 ft; minimum, 79 ft³/s

Oct. 4, 5, 1981, gage height, 1.97 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 25	1900	2270	7.89	Mar. 9	2100	2560	8.15
Feb. 17	2200	3200	8.70	Apr. 11	2200	*3740	9.09
Mar. 6	2200	2580	8.17				

Minimum discharge, 98 ft³/s Aug. 24, gage height, 2.29 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	161	250	319	977	858	1220	585	215	313	150	365
2	123	160	283	1700	995	833	995	543	212	368	182	279
3	120	154	305	1570	979	775	921	516	203	356	233	329
4	119	245	392	1220	977	791	932	535	197	398	213	304
5	119	267	403	1080	1060	907	903	525	204	354	226	236
6	118	261	355	1310	1220	1600	796	536	270	293	217	222
7	119	304	319	1280	1070	2050	757	544	286	352	189	204
8	121	352	293	931	852	1530	753	556	350	294	187	206
9	129	354	291	726	750	1940	926	524	407	240	198	206
10	137	297	303	650	744	2050	1140	456	544	215	198	172
11	166	250	317	613	806	1310	2570	413	569	194	179	157
12	233	227	423	591	741	1040	3210	390	442	184	163	154
13	288	237	459	602	709	930	2280	374	320	182	154	162
14	357	240	510	640	1110	791	1530	357	230	170	140	283
15	362	270	602	600	1360	718	1170	340	200	168	133	359
16	401	305	760	529	1490	679	981	329	195	177	127	423
17	413	298	768	479	2730	729	869	319	190	180	121	464
18	400	285	597	448	2620	817	822	309	180	161	117	353
19	337	269	516	427	1650	847	923	304	210	152	112	246
20	250	253	501	416	1220	901	895	304	350	149	109	203
21	211	261	512	474	1020	1080	787	309	420	145	107	224
22	199	269	461	647	894	1040	747	303	520	139	104	218
23	197	266	408	719	874	1010	782	296	370	138	101	223
24	193	260	380	356	805	1430	900	291	338	158	99	228
25	182	250	361	1850	823	1470	929	298	310	169	109	224
26	175	241	341	1870	980	1100	1010	290	352	164	115	203
27	168	236	327	1310	1060	1060	970	258	363	151	136	184
28	165	232	318	1100	882	1230	953	242	300	146	169	171
29	163	231	381	937	---	1270	786	234	253	141	158	159
30	164	237	493	888	---	1380	655	225	249	138	132	165
31	163	---	609	915	---	1560	---	226	---	148	120	---
TOTAL	6419	7687	13243	28197	31398	35726	33112	11731	9249	6537	4698	7326
MEAN	207	256	427	910	1121	1152	1104	378	308	211	152	244
MAX	413	354	768	1870	2730	2050	3210	585	569	398	233	464
MIN	118	160	250	416	709	679	655	225	180	138	99	154
CFSM	.44	.54	.90	1.92	2.37	2.44	2.33	.80	.65	.45	.32	.52
IN.	.50	.60	1.04	2.22	2.47	2.81	2.60	.92	.73	.51	.37	.58
CAL YR 1982	TOTAL	161537	MEAN	443	MAX	3400	MIN	118	CFSM	.94	IN	12.70
WTR YR 1983	TOTAL	195323	MEAN	535	MAX	3210	MIN	99	CFSM	1.13	IN	15.36

02197830 BRIER CREEK NEAR WAYNESBORO, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1958 to June 1958, December 1977 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDEED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEED (T/DAY)
DEC 14...	1745	525	8.0	4	5.7
JUN 23...	1800	354	23.0	11	11
AUG 02...	1610	175	24.5	10	4.7
SEP 14...	1215	283	22.5	14	11

02198000 BRIER CREEK AT MILLHAVEN, GA.

LOCATION.--Lat 32°56'00", long 81°39'05", Screven County, Hydrologic Unit 03060108, near right bank on downstream side of pier of highway bridge at Millhaven, 8.5 mi upstream from Beaver Dam Creek.

DRAINAGE AREA.--646 mi².

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, National Geodetic Vertical Datum of 1929. Prior to June 7, 1950, nonrecording gage at site 200 ft downstream at same datum. June 7, 1950, to Apr. 30, 1951, nonrecording gage at present site and datum.

REMARKS.--Records good except for period of no gage-height record, Jan. 4-28, which are fair. Records of chemical analyses for the 1970-79 water year are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--47 years, 660 ft³/s, 13.87 in/yr.

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 28	1300	2270	8.52	Mar. 12	0100	2430	8.78
Feb. 20	0100	3080	9.74	Apr. 14	0100	*3550	10.30
Mar. 9	0100	2690	9.18				

Minimum discharge, 115 ft³/s Aug. 25, 26, gage height, 0.50 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	149	206	294	679	1100	1260	1650	1030	265	421	177	206
2	144	204	298	771	1130	1290	1810	889	260	355	190	289
3	139	200	301	938	1320	1160	1550	772	249	354	245	456
4	136	225	313	1200	1340	1100	1290	737	242	426	331	687
5	135	294	336	1900	1260	1020	1140	706	242	450	445	539
6	133	319	375	1750	1170	1080	1080	631	260	569	468	519
7	129	355	431	1400	1180	1400	1180	654	328	662	321	455
8	127	345	459	1220	1300	2160	1200	625	501	583	275	327
9	132	326	434	1480	1320	2490	1200	626	513	430	243	276
10	147	343	394	1410	1150	1930	1310	633	455	390	227	254
11	153	372	371	1050	1010	2060	1360	630	423	320	229	249
12	165	383	459	820	941	2230	1480	587	465	284	230	227
13	186	362	545	740	969	1680	2810	522	558	284	221	202
14	216	323	590	680	1350	1340	3280	479	558	252	215	240
15	258	302	603	660	1550	1190	2650	451	440	234	197	305
16	317	298	604	680	1640	1070	2100	431	324	213	174	353
17	361	297	639	720	1750	1060	1580	411	267	211	161	379
18	371	316	703	680	1790	1100	1310	393	236	209	151	413
19	392	341	817	610	2680	1080	1200	383	227	203	145	464
20	411	347	855	550	2810	1100	1100	372	223	184	140	495
21	411	341	734	510	2030	1080	1060	361	213	172	136	478
22	386	330	631	490	1570	1090	1100	358	246	165	130	405
23	322	320	594	470	1470	1190	1120	356	409	157	124	355
24	275	320	591	530	1450	1290	1180	349	491	152	120	312
25	248	322	561	740	1320	1300	1140	335	588	162	116	278
26	238	320	508	800	1170	1590	1120	331	485	179	116	268
27	230	316	471	960	1050	1810	1110	332	398	195	130	264
28	220	309	448	2200	1060	1610	1120	329	389	184	138	250
29	211	304	464	1900	---	1420	1120	312	430	165	153	230
30	205	298	585	1500	---	1430	1090	291	455	164	172	214
31	203	---	657	1250	---	1530	---	277	---	175	169	---
TOTAL	7150	9338	16065	31288	39880	44140	43440	15643	11140	8904	6289	10389
MEAN	231	311	518	1009	1424	1424	1448	505	371	287	203	346
MAX	411	383	855	2200	2810	2490	3280	1030	588	662	468	687
MIN	127	200	294	470	941	1020	1060	277	213	152	116	202
CFSM	.36	.43	.80	1.56	2.20	2.20	2.24	.78	.57	.44	.31	.54
IN.	.41	.54	.93	1.80	2.30	2.54	2.50	.90	.64	.51	.36	.60
CAL YR 1982	TOTAL	196680	MEAN 539	MAX 3310	MIN 127	CFSM .83	IN 11.33					
WTR YR 1983	TOTAL	243666	MEAN 663	MAX 3280	MIN 116	CFSM 1.03	IN 14.03					

SAVANNAH RIVER BASIN

43

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

LOCATION.--Lat 32°31'30", long 81°15'45", Effingham County, Ga.-Jasper County, S.C., Hydrologic Unit 03060109, on downstream side of center pier of drawspan of bridge on Seaboard Coast Line Railroad, 3.0 m north of Clyo, and at mile 60.9.
DRAINAGE AREA.--9,850 mi², 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, National Geodetic Vertical Datum of 1929. Prior to Jan. 31, 1933, non-recording gage at same site and at datum 4.00 ft 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 Lake, and Clarks Hill Reservoir. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, 02187250, and 02194500).

AVERAGE DISCHARGE.--50 years, 12,000 ft³/s, 16.54 in/yr, unadjusted.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 58,300 ft³/s Apr. 17, gage height, 18.40 ft; minimum daily discharge, 6,220 ft³/s Nov. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8350	6600	6380	12100	18800	23500	19000	26300	7940	11100	6540	6260
2	9000	7000	6230	13100	20000	23000	18800	24800	7810	11300	6380	6590
3	8210	6800	6330	14000	20900	23000	18700	23500	7970	11200	6410	7240
4	7190	6500	6600	14500	21100	23200	18900	22900	8210	10700	6600	7630
5	7020	6400	6660	14900	20800	23300	19300	22000	8630	9310	6900	7600
6	7100	6400	6790	14900	20300	23500	19800	20300	9010	8090	7330	7390
7	7340	6500	6790	15000	19700	24300	20200	13400	8690	7630	7540	7080
8	7590	6600	6660	15200	19300	24600	20400	16800	8630	7630	7460	6900
9	7780	6700	6590	15700	19200	25000	20400	15400	8980	9030	7290	7010
10	7840	6900	6530	16400	19100	25600	20100	13500	9880	8270	7140	7170
11	8110	7100	6520	16800	19000	26200	19800	11000	10800	8280	7310	7560
12	7660	7200	6800	17100	18600	26700	19800	10000	11500	7670	8150	7860
13	7130	7000	7160	16900	18400	27100	20200	10300	11600	6820	8760	7520
14	7510	6800	7620	16500	18600	27400	22500	10600	10200	6470	9000	7250
15	8740	6600	8370	15900	18700	27900	34900	10600	8470	6870	8400	6970
16	9240	6440	9780	15500	18800	27800	52800	10100	8470	8330	7280	7670
17	8430	6520	10700	15300	19300	27500	57900	9300	9810	9160	6610	8940
18	7470	6500	11000	14900	19500	26400	56500	8710	11200	8280	6580	8860
19	6970	6500	11100	13800	19800	25000	53300	8400	12200	7330	6800	8050
20	6600	6480	10600	12800	20200	23700	49900	8860	12600	6990	6790	7580
21	6780	6490	8730	12900	21000	22800	46100	9300	12800	6800	6830	7240
22	6800	6500	7530	13600	22500	22100	41800	9230	11900	6740	7400	7050
23	6800	6470	9780	14000	25200	21700	38900	8890	11700	6720	7480	7330
24	7000	6280	11400	14500	27700	21700	37100	8390	12400	6810	6360	7600
25	7500	6220	12100	14900	28500	21800	35700	7900	13100	7040	6290	7730
26	8000	6330	12400	15300	27500	21500	34800	8450	13600	6920	6570	7740
27	8600	6440	12100	15700	26000	21300	34000	8780	14000	6660	7350	7500
28	8400	6480	10800	16200	24400	20900	32700	8750	13900	6770	7400	7000
29	8200	6400	9390	16600	---	20300	30800	8810	12200	7000	7010	6700
30	7200	6380	9950	17200	---	19700	28400	8900	11000	6970	6620	6780
31	6700	---	11000	18000	---	19400	---	8520	---	6790	6330	---
TOTAL	237460	197530	270440	470200	592900	737900	943500	397690	319400	244680	221410	221800
MEAN	7660	6584	8724	15170	21180	23800	31450	12830	10650	7893	7142	7393
MAX	9240	7200	12400	18000	28500	27900	57900	26300	14000	11300	9000	8940
MIN	6700	6220	6280	12100	18400	19400	18700	7900	7810	6470	6290	6260

CAL YR 1982 TOTAL 3205730 MEAN 8783 MAX 19400 MIN 5760 MEAN+ 10360 CFSM+ 1.05 IN+ 14.14
WTR YR 1983 TOTAL 4854910 MEAN 13300 MAX 57900 MIN 6220 MEAN+ 13120 CFSM+ 1.33 IN+ 18.08

+ ADJUSTED FOR CHANGE IN CONTENTS IN LAKE BURTON, MATHIS RESERVOIR, HARTWELL LAKE, AND CLARKS HILL RESERVOIR.

SAVANNAH RIVER BASIN

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1974 to July 1977.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
04...	1000	7090	--	80	6.8	7.1	21.0	22.0	6.3	70
NOV										
16...	1200	6420	--	88	7.3	7.3	15.0	15.0	7.9	78
18...	1200	6500	86	76	7.1	6.9	15.5	--	7.4	74
DEC										
08...	1245	6710	--	88	--	7.2	14.0	14.5	7.8	75
JAN										
12...	1200	17200	102	62	6.8	7.0	9.0	8.0	9.4	81
FEB										
08...	1400	19700	60	61	6.5	6.6	8.5	--	9.2	79
09...	1125	19200	73	64	6.9	7.1	7.0	14.5	9.4	77
MAR										
14...	1030	27300	--	56	6.9	6.8	16.5	15.0	7.9	81
APR										
05...	1230	19300	--	60	6.9	6.9	14.0	25.5	7.9	76
MAY										
05...	1900	21500	80	77	6.1	6.4	20.0	--	6.0	66
17...	0900	9380	93	80	7.1	7.4	21.5	23.0	8.9	100
JUN										
07...	1120	8640	161	77	7.1	7.2	23.0	28.0	7.1	83
JUL										
06...	0920	8170	78	78	7.0	7.2	25.5	28.0	6.3	77
AUG										
03...	1800	6480	89	86	6.4	7.5	26.5	--	7.4	92
09...	1055	7310	82	53	7.4	7.1	27.0	35.0	6.2	78
SEP										
06...	1100	7420	81	80	7.3	7.4	26.0	30.0	6.6	81

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, SIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	COLI- FORM, FECAL, O.7 UM-MF (CCLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
OCT 04...	30	7	--	--	--	20	--	--	--	--	--
NOV 16...	30	6	--	--	.3	40	--	--	--	--	--
18...	--	--	4.4	--	--	--	K28	390	18	C	4.9
DEC 08...	35	8	--	--	.6	150	--	--	--	--	--
JAN 12...	80	20	--	--	1.0	1400	--	--	--	--	--
FEB 08...	--	--	14	--	--	--	120	200	15	0	4.0
09...	30	15	--	--	1.6	70	--	--	--	--	--
MAR 14...	--	11	--	--	1.2	210	--	--	--	--	--
APR 05...	--	10	--	--	1.9	40	--	--	--	--	--
MAY 05...	--	--	13	--	--	--	38	340	18	0	4.9
17...	80	18	--	--	.7	80	--	--	--	--	--
JUN 07...	40	17	--	--	.9	460	--	--	--	--	--
JUL 06...	50	16	--	10	1.6	--	--	--	--	--	--
AUG 03...	--	--	10	--	--	--	K45	240	18	0	4.9
09...	40	9	--	11	1.1	90	--	--	--	--	--
SEP 06...	30	10	--	13	.8	130	--	--	--	--	--

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	PCTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
OCT 04...	--	--	--	--	--	22	6.8	--	--	--	--
NOV 16...	--	--	--	--	--	23	2.2	--	--	--	--
18...	1.3	10	52	1.1	1.8	23	3.5	10	6.9	<.10	10
DEC 08...	--	--	--	--	--	23	--	--	--	--	--
JAN 12...	--	--	--	--	--	15	4.6	--	--	--	--
FEB 08...	1.3	6.2	44	.7	1.5	16	9.8	12	5.3	<.10	9.4
09...	--	--	--	--	--	16	3.9	--	--	--	--
MAR 14...	--	--	--	--	--	14	3.4	--	--	--	--
APR 05...	--	--	--	--	--	16	3.9	--	--	--	--
MAY 05...	1.4	6.4	41	.7	1.5	20	31	11	6.5	<.10	7.6
17...	--	--	--	--	--	20	3.1	--	--	--	--
JUN 07...	--	--	--	--	--	18	2.8	--	--	--	--
JUL 06...	--	--	--	--	--	20	3.9	--	--	--	--
AUG 03...	1.3	10	53	1.1	1.4	22	17	10	8.0	.10	9.7
09...	--	--	--	--	--	20	1.5	--	--	--	--
SEP 06...	--	--	--	--	--	19	1.8	--	--	--	--

SAVANNAH RIVER BASIN

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
OCT 04...	--	--	--	--	12
NOV 16...	--	--	--	--	<1
18...	60	59	1050	.08	--
DEC 08...	--	--	--	--	9
JAN 12...	--	--	--	--	12
FEB 08...	53	50	2820	.07	--
09...	--	--	--	--	5
MAR 14...	--	--	--	--	<1
APR 05...	--	--	--	--	4
MAY 05...	64	52	3730	.09	--
17...	--	--	--	--	7
JUN 07...	--	--	--	--	10
JUL 06...	--	--	--	--	22
AUG 03...	65	59	1140	.09	--
09...	--	--	--	--	15
SEP 06...	--	--	--	--	17

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 04...	.27	--	.130	--	--	--	--	.070	--	--	2.0
NOV 16...	.27	--	.060	--	--	--	--	.070	--	--	--
18...	--	.30	--	.030	--	.20	--	.060	.030	.070	--
DEC 08...	.41	--	.040	--	--	--	--	.100	--	--	4.5
JAN 12...	.24	--	.050	--	--	--	--	.070	--	--	8.9
FEB 08...	--	.22	--	.030	--	.40	--	.060	.030	.020	--
09...	.19	--	.040	--	--	--	--	.060	--	--	7.3
MAR 14...	.09	--	.020	--	--	--	--	.040	--	--	80
APR 05...	.14	--	.050	--	--	--	--	.040	--	--	5.1
MAY 05...	--	.30	--	.060	--	.30	--	.080	.070	.040	--
17...	.45	--	.050	--	--	--	--	.100	--	--	3.6
JUN 07...	.38	--	.030	--	--	--	--	.140	--	--	4.6
JUL 06...	.42	--	.170	--	.13	.30	.72	.080	--	--	2.9
AUG 03...	--	.47	--	.030	--	.30	--	.080	.090	.050	--
09...	.42	--	.060	--	.14	.20	.62	.110	--	--	3.9
SEP 06...	.44	--	.020	--	.38	.40	.84	.090	--	--	4.3

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
NOV 18...	<10	1	27	<1	<1	<1	<3	1	160	<1
FEB 08...	20	1	88	<1	<1	3	4	7	280	2
MAY 05...	100	1	67	<1	<1	<1	<3	2	440	11
AUG 03...	300	1	43	<1	<1	<1	<3	10	190	4

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
NOV 18...	<4	9	<.1	<10	2	<1	1	30	<6.0	6
FEB 08...	<4	14	.5	<10	2	<1	<1	27	<6.0	21
MAY 05...	<4	29	.2	10	4	<1	<1	34	<6.0	3
AUG 03...	<4	10	<.1	<10	4	<1	<1	32	<6.0	6

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 18...	1200	6500	10	176	65
FEB 08...	1400	19700	20	1060	62
MAY 05...	1900	21600	12	723	87
AUG 03...	1800	6480	31	542	56

SAVANNAH RIVER BASIN

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TRITIUM IN WATER MOLE- CULES (TU)	TRITIUM WATER MOLE- CULES COUNT ERROR (TU)
OCT 04...	1001	7090	1210	18.0
NOV 16...	1201	6420	1250	20.0
DEC 08...	1246	6710	1330	20.0
JAN 12...	1201	17200	1160	20.0
FEB 24...	1155	23600	658	12.0
MAR 22...	0600	23000	573	11.0
APR 05...	1231	19300	747	13.0
MAY 05...	0900	22700	1090	20.0
JUN 07...	1121	8640	995	16.0
JUL 18...	1315	8290	806	12.0
AUG 09...	1056	7310	1400	20.0
SEP 06...	1101	7420	1540	20.0

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	GROSS ALPHA, DIS- SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)
FEB 08...	1400	19700	1.3	--	<1.0	1.9	<1.1	2.4	<1.1	2.3	.07	.24
AUG 03...	1800	6480	--	.5	.8	<1.2	.6	1.6	.6	1.6	.05	.03

LAKES AND RESERVOIRS IN SAVANNAH RIVER BASIN

02178500 LAKE BURTON.--Lat 34°47'37", long 83°32'26", Rabun County, Hydrologic Unit 03060102, on Tallulah River, 5.5 mi downstream from bridge on U.S. Highway 76, 10 mi southwest of Clayton, Ga. DRAINAGE AREA, 115 mi². PERIOD OF RECORD, October 1929 to current year. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Co.).

Lake is formed by concrete gravity dam. Spillway, crest elevation, 1,860.0 ft is equipped with eight gates 22 ft wide by 6.6 ft high. Dam completed in 1919. Total capacity at elevation 1,866.6 ft, top of gates, is 108,000 acre-ft, of which 106,000 acre-ft is usable storage. Lake is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Co.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	1865.0	103000	-	-
Oct. 31.....	1863.6	99500	-3500	-57
Nov. 30.....	1863.0	97800	-1700	-29
Dec. 31.....	1860.2	90500	-7300	-119
CAL YR 1982	-	-	+8600	+12
Jan. 31.....	1854.9	77600	-12900	-210
Feb. 28.....	1855.9	80000	+2400	+43
Mar. 31.....	1858.8	86900	+6900	+112
Apr. 30.....	1863.8	100000	+13100	+220
May 31.....	1865.1	104000	+4000	+65
June 30.....	1865.5	105000	+1000	+17
July 31.....	1863.9	100000	-5000	-81
Aug. 31.....	1861.7	94400	-5600	-91
Sept. 30.....	1862.4	96200	+1800	+30
WTR YR 1983	-	-	-6800	-9

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

02179500 MATHIS RESERVOIR.--Lat 34°47'03", long 83°24'57", Rabun County, Hydrologic Unit 03060102, on Tallulah River, 1 mi upstream from bridge on U.S. Highway 23, 1.8 mi south of Lakemont, Ga. DRAINAGE AREA, 151 mi². PERIOD OF RECORD, October 1929 to current year. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Co.).

Reservoir is formed by concrete slab and buttress dam. Spillway, crest elevation, 1,682.75 ft is equipped with 16 gates 15.8 ft wide by 6.85 ft high. Dam completed in 1915. Total capacity at elevation 1,689.6 ft, top of gates, is 31,200 acre-ft, of which 23,000 acre-ft 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 1982 TO SEPTEMBER 1983

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	1687.6	29600	-	-
Oct. 31.....	1684.9	27600	-2000	-33
Nov. 30.....	1687.8	29800	+2200	+37
Dec. 31.....	1688.5	30300	+500	+8
CAL YR 1982	-	-	+3300	+5
Jan. 31.....	1687.6	29600	-700	-11
Feb. 28.....	1687.1	29200	-400	-7
Mar. 31.....	1686.3	28600	-600	-10
Apr. 30.....	1686.9	29100	+500	+8
May 31.....	1687.9	29800	+700	+11
June 30.....	1687.7	29600	-200	-3
July 31.....	1687.7	29600	0	0
Aug. 31.....	1687.8	29800	+200	+3
Sept. 30.....	1687.1	29200	-600	-10
WTR YR 1983	-	-	-400	-1

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

SAVANNAH RIVER BASIN

LAKES AND RESERVOIRS IN SAVANNAH RIVER BASIN--Continued

02187250 HARTWELL LAKE.--Lat 34°21'25", long 82°49'20", Hart County, Ga.-Anderson County, S.C., Hydrologic Unit 03060103, in right spillway elevator tower of dam on Savannah River, 0.9 mi upstream from Big Generostee Creek, 6.4 mi east of Hartwell, Ga., and at mile 305.0. DRAINAGE AREA, 2,088 mi². PERIOD OF RECORD, October 1959 to current year. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army 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 between elevations 625.0 ft, normal limit of drawdown, and 665.0 ft, top of gates. Dead storage below 625.0 ft, 1,134,100 acre-ft. Elevation of spillway crest, 630.0 ft. Water is used for flood control, generation of power, and navigation. Capacity table furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 2,871,000 acre-ft Apr. 8, 1964, elevation, 665.47 ft; minimum, after first filling, 1,182,000 acre-ft Oct. 16, 1961, elevation, 626.70 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 2,737,100 acre-ft Apr. 13, elevation, 663.25 ft minimum, 2,270,300 acre-ft Sept. 30, elevation, 654.76 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	655.71	2318900	-	-
Oct. 31.....	657.14	2393800	+74900	+1218
Nov. 30.....	658.00	2439700	+45900	+771
Dec. 31.....	659.37	2514700	+75000	+1220
CAL YR 1982	-	-	+768500	+1062
Jan. 31.....	657.53	2414600	-100100	-1628
Feb. 28.....	658.79	2482800	+68200	+1228
Mar. 31.....	661.67	2644600	+161800	+2631
Apr. 30.....	660.74	2591400	-53200	-894
May 31.....	662.88	2715200	+123800	+2013
June 30.....	660.62	2584600	-130600	-2195
July 31.....	659.35	2513600	-71000	-1155
Aug. 31.....	656.25	2346900	-166700	-2711
Sept 30.....	654.78	2271300	-75600	-1271
WTR YR 1983	-	-	-47600	-66

02194500 CLARKS HILL RESERVOIR.--Lat 33°39'40", long 82°12'00", Columbia County, Ga.-McCormick County, S.C., Hydrologic Unit 03060103, in left spillway elevator tower of dam on Savannah River, 1.6 mi (2.6 km) west of Clarks Hill, 3.7 mi upstream from Kiokee Creek, and at mile 237.7. DRAINAGE AREA, 6,150 mi², approximately. PERIOD OF RECORD, October 1951 to current year. REVISED RECORDS, WSP 1703: 1953. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army 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 between elevations 305.0 ft, normal limit of drawdown, and 335.0 ft, top of spillway gates. Dead storage below 305.0 ft, 1,170,000 acre-ft. Elevation of spillway crest, 300.0 ft. Water is used for flood control, generation of power, and navigation. Capacity table furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 3,037,600 acre-ft Apr. 9, 1964, elevation, 336.72 ft; minimum, 897,900 acre-ft Feb. 1, 1956, elevation, 296.48 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 2,877,400 acre-ft Apr. 11, elevation, 334.71 ft; minimum, 2,174,000 acre-ft Nov. 29, elevation, 325.20 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	329.09	2446300	-	-
Oct. 31.....	327.02	2301400	-144900	-2356
Nov. 30.....	325.24	2176800	-124600	-2094
Dec. 31.....	327.68	2347600	+170800	+2778
CAL YR 1982	-	-	+361600	+499
Jan. 31.....	329.62	2483400	+135800	+2208
Feb. 28.....	331.59	2634000	+150600	+2712
Mar. 31.....	331.58	2633200	-800	-13
Apr. 30.....	331.17	2601300	-31900	-536
May 31.....	331.61	2635600	+34300	+558
June 30.....	330.51	2549800	-85800	-1442
July 31.....	329.44	2470800	-79000	-1285
Aug. 31.....	328.80	2426000	-44800	-729
Sept. 30.....	328.06	2374200	-51800	-871
WTR YR 1983	-	-	-72100	-100

OGEECHEE RIVER BASIN

51

02201000 WILLIAMSON SWAMP CREEK AT DAVISBORO, GA.

LOCATION.--Lat 32°58'32", long 82°36'36", Washington County, Hydrologic Unit 03060201, at bridge on State Highway 231 at Davisboro, 1.2 mi downstream from Central of Georgia Railroad bridge, and 1.9 mi downstream from Sun Hill Creek.

DRAINAGE AREA.--109 mi².

PERIOD OF RECORD.--Water years 1979-80 (annual maximum), May 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 270 ft, from topographic map. August 16, 1978, to May 8, 1980, crest-stage gage at same site and datum.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,430 ft³/s Mar. 13, 1980, gage height, 11.13 ft; minimum discharge, 11 ft³/s July 23-25, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 650 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 15	0630	*1290	8.91	Apr. 10	0800	1180	8.56

Minimum daily discharge, 20 ft³/s July 22, Aug. 23, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	37	73	266	147	235	280	131	43	52	53	61
2	23	38	66	260	205	253	250	127	43	45	145	77
3	24	43	57	366	302	199	232	129	42	41	142	81
4	24	90	53	297	224	170	202	205	41	36	94	68
5	29	129	54	210	159	157	181	206	41	32	73	47
6	71	80	35	166	182	290	173	144	43	30	49	40
7	46	53	75	143	215	447	207	122	107	29	42	37
8	32	45	58	131	171	337	268	109	228	27	36	31
9	54	42	56	128	139	261	519	103	139	23	31	30
10	51	41	53	180	128	204	1070	97	81	21	28	28
11	42	40	31	152	159	176	589	92	67	22	27	26
12	43	41	244	125	151	160	349	85	57	34	27	26
13	69	88	239	106	142	149	276	81	48	32	27	48
14	202	95	120	98	525	143	240	79	44	32	27	141
15	118	62	36	96	1110	139	251	75	41	32	28	122
16	61	50	123	92	557	155	273	74	40	36	26	60
17	46	46	140	89	350	312	234	76	40	33	25	46
18	40	81	94	36	294	522	206	72	39	30	24	40
19	38	141	81	82	242	364	238	70	38	26	23	36
20	37	114	81	81	212	267	208	77	38	23	23	45
21	37	76	75	151	190	379	179	78	39	21	22	81
22	37	65	70	415	193	567	164	73	58	20	21	87
23	37	59	68	379	302	338	217	68	94	22	20	57
24	35	53	67	261	269	275	417	63	67	27	20	45
25	34	47	67	189	231	346	383	58	53	28	21	41
26	34	45	66	152	213	319	258	56	44	171	23	41
27	34	47	65	142	178	349	206	53	40	172	33	37
28	35	48	64	194	165	493	173	49	40	60	31	34
29	35	57	245	176	---	347	153	48	41	44	27	30
30	34	63	435	165	---	270	140	48	50	37	26	28
31	35	---	323	181	---	258	---	46	---	43	24	---
TOTAL	1461	1916	3464	5559	7355	8881	8536	2794	1786	1281	1218	1571
MEAN	47.1	63.9	112	179	263	286	285	90.1	59.5	41.3	39.3	52.4
MAX	202	141	435	415	1110	567	1070	206	228	172	145	141
MIN	23	37	53	81	128	139	140	46	38	20	20	26
CFSM	.43	.59	1.03	1.64	2.41	2.62	2.62	.83	.55	.38	.36	.48
IN.	.50	.65	1.18	1.90	2.51	3.03	2.91	.95	.61	.44	.42	.54
CAL YR 1982	TOTAL	36275	MEAN	99.4	MAX	1260	MIN	23	CFSM	.91	IN	12.38
WTR YR 1983	TOTAL	45822	MEAN	126	MAX	1110	MIN	20	CFSM	1.16	IN	15.64

OGEECHEE RIVER BASIN

02202190 OGEECHEE RIVER NEAR OLIVER, GA.

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

DRAINAGE AREA.--2,230 mi², approximately.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN, DIS- SOLVED (MG/L)
OCT 04...	1130	236	--	122	--	6.9	21.5	23.5	7.1	80
NOV 16...	1330	358	--	92	7.5	7.2	13.5	17.0	9.2	87
DEC 08...	1520	631	93	97	--	7.4	12.0	16.0	7.9	72
JAN 12...	1410	4700	52	52	6.6	6.7	9.0	10.0	10.4	90
FEB 09...	1400	5600	52	53	6.7	6.9	6.5	17.0	10.0	81
MAR 14...	1235	10000	--	49	--	6.7	14.0	16.5	7.9	76
APR 05...	1430	6000	52	54	6.9	7.0	15.0	27.5	7.7	76
MAY 17...	1120	1600	--	85	7.1	7.4	21.5	20.5	4.6	52
JUN 07...	1320	785	91	95	7.2	7.2	23.0	25.0	5.9	69
JUL 06...	1130	1320	72	72	6.8	7.2	25.5	23.0	5.5	67
AUG 09...	1320	512	110	--	7.4	--	28.0	33.0	6.6	85
11...	1335	520	102	103	7.4	7.6	28.0	32.0	6.3	87
SEP 06...	1300	268	123	126	7.6	7.9	28.5	33.5	6.6	85

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 04...	40	4	26	--	170	44	4	.11	--	.20	.060	10
NOV 16...	50	3	24	1.2	<35	27	<1	.05	.040	.50	.070	--
DEC 08...	70	6	20	.7	40	33	1	.07	.040	.30	.050	7.1
JAN 12...	120	15	31	1.2	90	8.0	4	.02	.040	.60	.050	14
FEB 09...	110	10	28	1.5	70	12	2	.07	.040	.30	.040	7.6
MAR 14...	140	13	36	.7	90	14	<1	.07	.020	.70	.050	13
APR 05...	100	8	29	2.1	230	15	<1	.10	.060	.50	.050	10
MAY 17...	100	11	37	.8	80	26	13	.29	.070	.50	.090	10
JUN 07...	80	2	24	1.6	510	28	10	.32	.050	.70	.090	9.5
JUL 06...	80	10	--	1.3	--	22	8	.15	.090	--	.040	7.6
AUG 11...	50	7	--	1.1	230	33	5	.22	.040	--	.020	5.2
SEP 06...	25	3	--	.8	50	40	3	.32	.030	--	.080	4.2

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

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

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 19.64 ft, National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1939, nonrecording gage at site 600 ft upstream at same datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--46 years, 2,355 ft³/s, 12.07 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,800 ft³/s Mar. 19, 1980, gage height, 14.77 ft; minimum observed, 131 ft³/s Sept. 12-14, 1954.

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

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

Flood of April 1936, reached a stage of 15.2 ft, from information as explained above, discharge, 30,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,800 ft³/s and minimum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 14	1300	5480	9.14	Mar. 14	0600	12000	11.30
Feb. 6	1000	8040	10.18	Apr. 20	0700	*12100	11.33
Feb. 22	0100	11200	11.09				

Minimum discharge, 230 ft³/s Aug. 31, Sept. 1, gage height, 0.16 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	328	392	719	1670	5070	9020	7710	4960	977	924	454	246
2	315	386	717	1780	5650	8440	8220	4620	935	1000	471	274
3	300	379	699	1940	6150	7840	8380	4300	891	1050	491	303
4	288	375	673	2120	6840	7190	8150	4040	840	1100	517	304
5	282	374	659	2320	7720	6590	7610	3790	783	1160	546	297
6	275	382	651	2660	7980	6200	7040	3560	744	1220	573	293
7	268	391	663	2800	7780	6190	6530	3350	794	1270	578	296
8	265	408	685	2850	7510	6670	6190	3160	963	1310	561	323
9	260	432	700	2960	7200	7540	6070	2980	1150	1360	565	359
10	259	455	711	3200	6810	8000	5960	2820	1250	1380	582	389
11	267	488	736	3740	6390	8200	5710	2670	1330	1380	598	419
12	370	526	823	4480	6040	8910	5400	2510	1390	1330	611	427
13	537	562	890	5180	5870	11000	5110	2340	1440	1280	610	421
14	486	591	970	5490	5940	11800	5000	2170	1500	1240	562	405
15	444	618	1040	5350	5870	10400	5160	2020	1520	1170	495	370
16	453	631	1060	4980	6180	8960	5700	1910	1450	992	442	346
17	468	629	1050	4650	7350	9080	6750	1810	1310	780	415	325
18	477	605	1070	4370	8290	9730	8700	1720	1180	656	395	321
19	471	574	1100	4060	9580	9900	11000	1650	1100	584	375	338
20	465	562	1140	3700	10600	9630	12000	1590	1040	545	353	390
21	483	573	1180	3480	11000	8990	11000	1540	979	508	334	444
22	519	592	1230	3420	11000	8410	9350	1480	924	487	317	492
23	547	610	1290	3370	10600	7950	8470	1420	848	479	301	519
24	574	628	1350	3420	10000	7710	7930	1340	746	457	285	537
25	590	643	1400	3440	9950	7560	7540	1280	693	439	270	546
26	580	657	1430	3380	10400	7320	7480	1250	695	422	268	537
27	534	673	1460	3370	10300	7230	6780	1210	728	418	261	513
28	480	689	1490	3520	9690	7100	6200	1130	775	418	254	498
29	444	702	1510	3730	---	6950	5720	1070	819	409	243	483
30	422	711	1550	4150	---	6980	5310	1040	865	411	235	477
31	402	---	1610	4630	---	7230	---	1010	---	439	230	---
TOTAL	12853	16238	32260	110270	223760	254720	218170	71740	30659	26618	13192	11892
MEAN	415	541	1041	3557	7991	8217	7272	2314	1022	859	426	396
MAX	590	711	1610	5490	11000	11800	12000	4960	1520	1380	611	546
MIN	259	374	651	1670	5070	6190	5000	1010	693	409	230	246
CFSM	.16	.20	.39	1.34	3.02	3.10	2.74	.87	.39	.32	.16	.15
IN.	.18	.23	.45	1.55	3.14	3.58	3.06	1.01	.43	.37	.19	.17
CAL YR 1982 TOTAL		668000		MEAN 1830	MAX 8660	MIN 259	CFSM .69	IN 9.38				
WTR YR 1983 TOTAL		1022372		MEAN 2301	MAX 12000	MIN 230	CFSM 1.06	IN 14.35				

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 1981.

WATER TEMPERATURES: October 1972 to September 1981.

INSTRUMENTATION.--Water-temperature recorder October 1972 to September 1981. Specific-conductance recorder October 1975 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 183 micromhos Sept. 13, 1978; minimum, 23 micromhos Mar. 20, 1980.

WATER TEMPERATURES: Maximum, 32.0°C July 9-11, 13, 15, 21, 22, 1977, Aug. 9, 1980; minimum, 1.5°C Jan. 19-21, 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT									
05...	1145	235	115	117	7.6	7.6	23.0	7.4	86
JAN									
18...	1430	4330	52	49	6.7	6.6	6.0	11.1	89
MAR									
15...	1330	10200	48	52	6.8	6.4	13.5	8.2	79
MAY									
24...	1300	1340	87	88	6.9	6.8	24.0	6.1	73
JUN									
30...	0745	349	100	99	7.0	7.1	26.0	6.3	78
AUG									
16...	1330	438	105	102	--	6.9	27.5	7.0	89

DATE	TUR- BID- ITY (NTU)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT											
05...	2.0	K9	77	38	8	13	1.3	8.9	33	.7	1.5
JAN											
18...	13	46	25	15	7	4.5	.9	4.2	35	.5	1.5
MAR											
15...	11	53	74	15	2	4.7	.9	2.5	24	.3	1.3
MAY											
24...	6.3	60	210	30	0	9.4	1.6	6.2	30	.5	1.4
JUN											
30...	3.1	77	400	33	0	11	1.4	7.5	32	.6	1.4
AUG											
16...	3.0	21	32	33	0	11	1.3	8.4	35	.7	1.1

DATE	ALKA- LITY LAB (MG/L AS CAC03)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT										
05...	30	1.5	10	6.2	<.10	11	96	71	66.2	.12
JAN										
18...	8.0	3.1	12	6.4	<.10	12	64	47	748	.09
MAR										
15...	13	4.0	.8	5.1	<.10	4.0	60	27	1650	.08
MAY										
24...	30	7.3	10	4.7	<.10	11	87	64	315	.12
JUN										
30...	33	6.4	10	6.5	<.10	11	78	69	179	.11
AUG										
16...	34	--	10	6.3	<.10	13	101	72	119	.14

02202500 OGEECHEE RIVER NEAR EDEN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
OCT 05...	<.10	<.010	.90	.060	.040	.040
JAN 18...	<.10	.020	.50	.060	.040	.010
MAR 15...	<.10	.020	.60	.050	.030	.020
MAY 24...	.32	.040	.30	.070	.040	.050
JUN 30...	.27	.030	.40	.060	.060	.040
AUG 16...	.10	.030	.50	.050	.050	.050

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
OCT 05...	--	1	33	1	1	<1	3	2	540	<1
JAN 18...	100	1	25	<1	<1	<1	<3	3	500	17
MAY 24...	20	1	39	<1	<1	<1	<3	2	1100	2
AUG 16...	20	1	56	<1	<1	<1	<3	<1	630	1

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYS- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 05...	4	53	<.1	10	1	<1	<1	38	6.0	4
JAN 18...	<4	17	.1	<10	1	<1	<1	15	<6.0	<4
MAY 24...	<4	71	--	<10	<1	<1	<1	33	<6.0	<3
AUG 16...	<4	66	<.1	<10	<1	<1	<1	37	<6.0	3

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 05...	1150	285	23.0	3	2.3	100
JAN 18...	1435	4330	6.0	12	140	81
MAR 15...	1335	10200	13.5	8	220	100
MAY 24...	1305	1340	24.0	11	40	100
JUN 30...	0750	849	26.0	9	21	88
AUG 16...	1335	438	27.5	9	11	78

02202600 BLACK CREEK NEAR BLITCHTON, GA.

LOCATION.--Lat 32°10'04", long 81°29'18", Bryan County, Hydrologic Unit 03060202, at bridge on U.S. Highway 280 (State Highway 30), 4.2 mi upstream from Mill Creek, 5.8 mi southwest of Blitchton, and 8.7 mi upstream from mouth.

DRAINAGE AREA.--232 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1944, 1951, 1954, 1959, 1961-62, 1964-68, 1973. February 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 30 ft, from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,260 ft³/s Feb. 17, 1983, gage height, 10.51 ft; zero flow was observed August 19, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 12	1300	1400	9.70	Mar. 9	1900	1370	9.65
Jan. 24	1300	1020	9.03	Mar. 19	2200	1680	10.07
Feb. 4	2200	1680	10.07	Apr. 25	2300	1780	10.05
Feb. 17	0300	*2260	10.51				

Minimum discharge, 0.31 ft³/s Aug. 23-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	8.3	11	222	875	467	569	253	9.1	2.8	1.5	1.2
2	7.6	10	12	409	915	437	534	199	6.6	2.3	1.5	1.9
3	6.2	8.3	12	559	961	435	521	158	5.0	2.3	3.7	1.9
4	5.5	7.6	12	646	1430	437	462	136	3.4	2.3	4.9	1.5
5	5.1	6.7	13	676	1510	421	393	125	2.8	2.0	4.5	2.1
6	4.8	6.5	13	584	1140	421	329	108	2.5	3.1	3.3	.68
7	4.4	6.0	17	456	900	572	283	91	2.6	3.3	2.7	.52
8	4.4	6.2	17	367	759	861	248	79	3.8	3.3	2.0	.59
9	4.2	7.3	18	297	628	1290	243	68	27	3.7	1.8	.67
10	5.7	7.9	22	360	513	1240	276	59	95	3.0	1.8	.62
11	25	3.2	23	683	443	951	318	50	109	2.7	1.4	.84
12	74	8.2	76	1330	373	734	359	42	75	2.0	1.0	2.7
13	129	7.9	94	1110	349	557	331	35	45	1.3	.93	2.4
14	139	3.2	127	850	542	427	293	28	25	1.2	.95	2.0
15	99	8.2	142	660	953	332	246	21	13	1.2	.79	1.7
16	64	7.9	132	556	1940	281	270	19	7.8	1.2	.70	1.5
17	45	7.6	108	404	2130	476	335	16	4.9	1.1	.66	1.3
18	32	7.6	87	307	1990	872	362	11	3.6	1.2	.64	1.0
19	23	7.9	79	252	1940	1520	363	8.9	2.6	1.4	.59	.85
20	16	8.2	76	220	1480	1510	344	7.9	2.2	1.4	.56	.86
21	14	8.5	71	262	1110	1170	305	7.1	2.1	1.4	.53	1.6
22	12	3.2	63	477	867	970	260	6.6	2.6	1.3	.47	2.9
23	12	7.9	59	798	712	925	338	6.6	3.0	1.3	.40	1.7
24	11	3.2	55	1000	603	764	714	6.4	3.2	1.1	.36	1.8
25	9.7	7.9	52	939	568	650	1510	6.3	2.6	1.3	.36	1.9
26	9.1	7.6	49	318	607	582	1620	8.0	2.1	9.6	.41	1.9
27	10	7.9	47	692	594	607	1120	13	1.8	3.2	.54	1.7
28	9.7	8.5	46	623	518	664	746	20	1.7	1.3	.60	1.5
29	8.5	9.4	49	620	---	733	483	27	1.7	1.1	.45	1.5
30	7.6	11	87	744	---	721	334	20	1.9	1.5	.45	1.5
31	6.7	---	158	834	---	648	---	14	---	3.1	.47	---
TOTAL	813.3	240.8	1827	18755	27410	22675	14499	1649.8	468.6	69.0	40.86	44.83
MEAN	26.2	8.03	58.9	605	979	731	483	53.2	15.6	2.23	1.32	1.49
MAX	139	11	158	1330	2130	1520	1620	253	109	9.6	4.9	2.9
MIN	4.2	6.0	11	220	349	281	243	6.3	1.7	1.1	.36	.52
CFSM	.11	.04	.25	2.61	4.22	3.15	2.08	.23	.07	.01	.006	.006
IN.	.13	.04	.29	3.01	4.40	3.64	2.32	.26	.08	.01	.01	.01
CAL YR 1982	TOTAL	47895.20	MEAN	131	MAX	948	MIN	4.2	CFSM	.57	IN	7.68
WTR YR 1983	TOTAL	38493.19	MEAN	242	MAX	2130	MIN	.36	CFSM	1.04	IN	14.19

02203000 CANOOCHEE RIVER NEAR CLAXTON, GA.

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

DRAINAGE AREA.--555 mi², 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, National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Prior to Oct. 20, 1949, nonrecording gage at same site and datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--46 years, 466 ft³/s, 11.40 in/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 4	1800	2490	10.87	Mar. 22	0200	2680	11.11
Feb. 18	1700	*4310	12.54	Apr. 26	1600	2570	10.97
Mar. 10	2400	3220	11.69				

Minimum discharge, 1.6 ft³/s Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	7.6	25	367	2110	1670	1730	1020	19	93	5.5	3.2
2	7.9	7.1	25	605	2160	1710	1670	816	15	213	5.6	4.0
3	7.0	6.6	24	858	2360	1650	1580	663	13	288	5.7	3.9
4	6.6	7.7	22	1060	2460	1600	1410	585	12	308	6.3	3.3
5	6.2	8.4	21	1200	2460	1520	1250	540	11	258	6.9	3.6
6	5.7	13	26	1300	2310	1580	1120	488	12	331	5.9	4.4
7	5.2	20	32	1300	2170	1960	1040	446	18	455	5.3	4.3
8	5.2	19	38	1210	2020	2850	980	384	30	429	5.1	3.4
9	4.9	23	37	1180	1790	3150	949	332	65	296	4.7	2.8
10	4.9	28	33	1200	1580	3150	946	293	97	182	4.4	2.5
11	7.6	29	34	1130	1400	3160	944	257	178	112	4.1	2.7
12	9.8	26	62	1060	1260	2810	989	221	470	72	4.5	2.2
13	12	24	137	988	1190	2280	1020	188	722	45	4.3	2.4
14	11	21	145	880	1500	1770	1020	160	700	33	4.1	3.4
15	9.0	19	164	751	2390	1420	1070	137	496	26	3.7	4.4
16	8.5	17	198	641	3510	1280	1220	116	298	22	3.4	4.3
17	9.8	15	193	544	3910	1450	1360	97	188	19	3.3	4.0
18	18	15	171	463	4230	1880	1430	79	137	16	3.0	4.0
19	20	14	153	420	4070	2440	1420	73	105	14	3.0	3.8
20	19	14	151	405	3340	2570	1350	98	80	11	3.0	4.0
21	17	14	144	497	2600	2590	1240	109	62	10	2.7	4.6
22	14	14	137	875	1990	2640	1110	96	50	8.5	2.7	4.9
23	13	14	138	1150	1810	2370	1170	85	46	8.0	2.5	5.6
24	11	14	142	1430	1800	1960	1570	80	40	7.4	1.9	5.5
25	10	15	135	1720	1700	1720	2170	75	31	7.4	2.2	4.5
26	10	16	123	1680	1590	1590	2540	61	24	7.4	2.5	4.0
27	9.1	16	110	1620	1520	1530	2360	49	52	7.0	2.8	3.8
28	8.4	20	99	1710	1560	1580	1820	40	30	6.2	3.2	3.5
29	8.4	21	103	1810	---	1700	1430	33	45	6.3	2.5	3.4
30	8.1	23	155	1950	---	1810	1190	28	43	6.0	2.1	3.3
31	7.8	---	252	2110	---	1790	---	22	---	5.7	2.1	---
TOTAL	304.0	501.4	3229	34114	62790	63180	41098	7671	4089	3307.9	119.0	113.7
MEAN	9.31	16.7	104	1100	2243	2038	1370	247	136	107	3.84	3.79
MAX	20	29	252	2110	4230	3160	2540	1020	722	455	6.9	5.6
MIN	4.9	6.6	21	367	1190	1280	944	22	11	5.7	1.9	2.2
CFSM	.02	.03	.19	1.98	4.04	3.67	2.47	.45	.25	.19	.007	.007
IN.	.02	.03	.22	2.29	4.21	4.23	2.75	.51	.27	.22	.01	.01
CAL YR 1982	TOTAL	147857.2	MEAN	405	MAX	2640	MIN	4.9	CFSM	.73	IN	9.91
WTR YR 1983	TOTAL	220517.0	MEAN	504	MAX	4230	MIN	1.9	CFSM	1.09	IN	14.78

OGEECHEE RIVER BASIN

02203000 CANOOCHEE RIVER NEAR CLAXTON, GA.--Continued

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 04...	1325	6.5	--	49	--	5.2	21.0	27.0	4.7	53
NOV 16...	1505	15	52	51	5.7	5.7	13.0	16.5	7.2	68
DEC 08...	1645	38	50	49	--	5.8	16.5	17.0	7.2	73
JAN 12...	1710	1050	52	54	5.3	5.3	9.0	6.0	10.5	90
FEB 09...	1545	1750	--	46	5.4	5.4	7.5	15.0	9.7	80
MAR 14...	1450	1720	--	40	5.8	5.5	15.0	25.0	8.0	79
APR 05...	1545	1230	--	37	5.2	5.6	16.0	24.5	7.5	75
MAY 17...	1250	96	43	45	5.6	5.8	22.5	25.5	4.0	46
JUN 08...	0805	24	56	55	5.8	6.1	23.0	21.0	5.2	61
JUL 06...	1425	342	40	40	5.4	5.6	25.5	30.5	6.2	76
AUG 09...	1515	4.4	46	--	6.0	--	29.0	31.5	5.3	69
SEP 11...	1520	3.9	45	45	6.1	6.5	29.0	32.5	5.2	68
SEP 06...	1515	4.7	48	49	6.3	6.7	28.5	32.0	5.9	76

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 04...	120	4	--	50	6.0	4	.03	.100	.060	18
NOV 16...	80	1	.9	90	4.0	<1	<.02	.020	.030	--
DEC 08...	160	4	.8	230	4.0	2	<.02	.020	.060	18
JAN 12...	110	8	.7	90	2.0	<1	.08	.040	.020	17
FEB 09...	100	4	1.4	<30	3.0	1	.12	.040	.030	10
MAR 14...	150	5	1.1	90	3.0	7	<.02	.030	.050	20
APR 05...	140	3	2.3	90	3.0	2	.03	.040	.040	17
MAY 17...	200	7	1.6	170	5.0	6	.15	.120	.080	23
JUN 08...	110	8	1.0	4900	4.0	3	.26	.100	.110	16
JUL 06...	160	7	1.2	--	4.0	11	.03	.100	.030	21
AUG 11...	80	3	1.7	220	6.0	3	.02	.030	.050	8.6
SEP 06...	80	3	2.3	20	7.0	2	.09	.070	.120	8.3

OGEECHEE RIVER BASIN

59

02203519 CANOOCHEE RIVER NEAR RICHMOND HILL, GA.

LOCATION.--Lat 31°58'59", long 81°23'07", Bryan County, Hydrologic Unit 03060203, at bridge on State Highway 67, 5.3 mi west of Richmond Hill, and 8.5 mi upstream from Ogeechee River.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT									
06...	0945	--	64	6.5	6.5	23.5	25.0	5.2	61
NOV									
18...	1245	--	70	6.8	6.9	15.5	21.0	7.3	72
DEC									
07...	1545	--	70	--	6.9	17.0	17.0	6.3	64
JAN									
18...	1005	54	59	5.6	5.0	6.5	5.0	11.0	39
FEB									
10...	1900	--	48	5.3	4.9	8.5	13.0	9.4	80
MAR									
16...	1215	--	60	5.3	5.0	14.0	17.5	7.9	76
APR									
07...	1915	--	40	--	5.2	18.0	21.0	5.4	57
MAY									
19...	1350	48	50	5.8	5.8	21.0	25.0	4.7	52
JUN									
09...	1630	53	57	6.4	6.4	25.0	23.0	5.6	68
JUL									
05...	1805	48	49	--	--	27.0	30.0	4.9	62
AUG									
08...	1030	59	66	6.2	6.5	27.5	30.0	4.9	62
SEP									
08...	0845	65	72	6.6	6.9	27.5	27.0	5.7	72

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CAC03)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
06...	160	5	.3	20	8.0	1	.62	.070	.190	16
NOV										
18...	100	2	.9	40	12	<1	.41	.080	.200	--
DEC										
07...	100	5	.8	40	13	2	.46	.160	.260	12
JAN										
18...	80	8	1.1	90	2.0	<1	.10	.040	.040	23
FEB										
10...	140	3	1.0	<30	1.0	<1	.10	.030	.030	16
MAR										
16...	200	5	1.1	<30	1.0	<1	<.02	.020	.050	21
APR										
07...	200	3	1.2	40	2.0	1	.02	.060	.030	20
MAY										
19...	140	6	1.4	20	4.0	13	.24	.160	.130	19
JUN										
09...	110	5	--	--	7.0	<1	.64	.080	.190	15
JUL										
05...	140	8	1.3	170	--	6	.22	.090	.080	19
AUG										
08...	200	13	1.5	230	6.0	1	.31	.020	.180	17
SEP										
08...	100	10	1.0	50	10	6	.58	.060	.250	--

NORTH NEWPORT RIVER BASIN

02203578 NORTH NEWPORT RIVER AT HALFMOON LANDING, GA.

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

DRAINAGE AREA.--157 mi².

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1970 to September 1976.

pH: July 1970 to September 1976.

WATER TEMPERATURES: July 1970 to September 1976.

DISSOLVED OXYGEN: July 1970 to September 1976.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 45,500 micromhos Nov. 29, 1975; minimum recorded, 5,650 micromhos Sept. 1, 1971.

pH: Maximum recorded, 8.1 units Mar. 24, 1975; minimum recorded, 6.5 units July 11, 12, 1971.

WATER TEMPERATURES: Maximum, 33.5°C Sept. 1, 2, 1970; minimum, 6.0°C Jan. 20-24, 1976.

DISSOLVED OXYGEN: Maximum recorded, 12.8 mg/L Feb. 13, 1973; minimum recorded, 1.4 mg/L July 30, 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT									
06...	1055	38000	30400	--	7.6	24.0	26.5	4.6	63
NOV									
18...	1025	45000	35400	7.7	7.8	15.0	21.5	6.7	79
DEC									
07...	1430	45000	35000	--	7.8	19.0	19.0	6.1	77
JAN									
18...	1125	40000	34000	8.2	7.8	9.0	7.5	10.0	101
FEB									
08...	1805	32500	26600	7.7	7.8	10.5	6.5	8.8	99
MAR									
16...	1000	28000	24000	7.5	7.7	14.0	18.0	6.6	71
APR									
07...	1645	21800	17800	7.5	7.5	19.5	24.5	6.2	73
MAY									
19...	1450	30500	26000	7.6	7.6	22.5	24.0	6.3	80
JUN									
09...	1840	36000	28600	7.5	7.5	25.0	25.0	5.1	70
JUL									
05...	1740	39500	30600	7.7	7.7	30.0	30.0	5.0	76
AUG									
08...	0820	39500	33600	7.6	7.7	29.0	28.5	4.7	70
SEP									
08...	0950	42000	34200	7.5	7.8	29.5	30.5	4.4	67

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CAC03)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT											
06...	50	27	1.2	<20	97	14000	70	.07	.230	.140	11
NOV											
18...	10	15	1.0	<30	110	17000	52	<.02	.230	.090	--
DEC											
07...	20	14	.8	<30	112	17000	39	<.02	.400	.090	3.7
JAN											
18...	20	11	1.5	<30	110	170000	20	.04	.600	.060	7.8
FEB											
08...	40	8	1.0	<30	85	11000	3	<.02	.400	.060	5.2
MAR											
16...	50	14	1.0	<30	74	10000	35	<.02	.150	.100	9.6
APR											
07...	110	5	1.4	40	56	7100	<1	<.02	.060	.040	11
MAY											
19...	40	13	1.0	<20	77	10000	32	.02	.050	.080	8.6
JUN											
09...	30	18	--	--	90	13000	54	.04	.120	.110	9.7
JUL											
05...	25	10	1.1	<20	98	14000	36	<.02	.110	.120	8.9
AUG											
08...	30	17	1.1	<20	101	15000	44	.02	<.020	.140	6.5
SEP											
08...	25	14	1.3	<20	108	15000	68	.02	.030	.130	9.0

ALTAMAHA RIVER BASIN

61

02203800 SOUTH RIVER AT ATLANTA, GA.

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

DRAINAGE AREA.--41.5 mi².

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
05...	0630	46	370	351	7.1	7.0	21.0	18.5	4.0	46
NOV										
03...	1645	75	350	322	7.2	7.2	21.0	21.0	3.4	39
DEC										
07...	0800	71	280	264	7.0	7.2	13.5	7.0	7.6	74
JAN										
04...	0815	95	230	212	7.1	6.9	10.0	2.0	8.0	72
FEB										
01...	0930	64	330	314	7.2	7.3	11.8	11.0	7.6	72
MAR										
01...	0800	84	235	233	6.9	6.8	10.0	9.0	8.4	77
APR										
05...	0715	75	330	300	7.2	7.1	14.0	12.0	6.7	66
MAY										
04...	0845	70	300	302	6.9	7.1	16.0	16.0	3.4	35
JUN										
07...	0745	76	228	232	7.1	7.1	21.0	20.5	4.7	55
JUL										
05...	0645	51	275	266	--	7.2	23.0	22.5	3.7	45
AUG										
03...	1015	57	350	375	7.3	7.2	24.5	29.5	2.8	34
SEP										
08...	0615	54	330	332	--	7.6	23.5	21.0	4.4	53

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINEITY LAB (MG/L AS CAC03)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDEO (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
05...	13	13	1700000	76	16	272	1.0	5.50	4.28	24
NOV										
03...	30	>11	2.40E+07	84	94	296	1.9	10.0	3.80	--
DEC										
07...	23	10	430000	53	28	192	1.7	2.76	1.32	10
JAN										
04...	23	>17	430000	47	19	152	1.3	1.78	1.30	16
FEB										
01...	12	14	490000	68	20	218	1.1	4.92	2.40	18
MAR										
01...	29	15	29000	42	39	164	1.1	3.16	1.00	13
APR										
05...	16	>16	230000	64	25	216	1.5	4.20	2.02	13
MAY										
04...	16	>16	230000	58	17	216	1.7	3.45	1.83	21
JUN										
07...	10	13	22000	43	36	192	1.6	2.30	1.38	16
JUL										
05...	10	8.0	3300	54	11	136	2.3	6.00	.710	12
AUG										
03...	14	>13	330000	79	10	244	1.2	4.90	3.04	17
SEP										
08...	20	>15	5400000	61	23	220	1.5	4.35	2.84	21

02203900 SOUTH RIVER AT FLAKES MILL ROAD, NEAR ATLANTA, GA.

LOCATION.--Lat 33°39'58", long 84°13'29", DeKalb County, Hydrologic Unit 03070103, at bridge on Flakes Mill Road, 1.6 mi upstream from Snapfinger Creek, and 15 mi southeast of Atlanta.

DRAINAGE AREA.--99 mi².

PERIOD OF RECORD.--Water years 1951-79 (annual maximum), August 1979 to September 1983 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 717.75 ft, National Geodetic Vertical Datum of 1929. July 14, 1950 to Aug. 23, 1979, crest-stage gage at same site and datum.

REMARKS.--Records good. Low flow affected by operation of wastewater treatment plants upstream of gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,500 ft³/s Feb. 25, 1961, gage height, 21.3 ft; minimum daily discharge, 59 ft³/s Aug. 30, 1983.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 13	1700	2700	8.13	Mar. 6	1000	*7020	14.72
Dec. 5	1600	2730	8.17	Mar. 27	0645	3160	8.71
Jan. 2	1345	2530	7.91	Apr. 8	2130	6180	13.30
Feb. 2	0630	2920	8.42				

Minimum daily discharge, 59 ft³/s Aug. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	31	444	132	281	202	181	121	104	229	157	101
2	74	32	165	1830	1810	132	445	117	96	103	116	353
3	74	111	132	515	281	126	191	135	93	85	77	154
4	75	210	118	217	175	121	161	138	117	92	73	628
5	75	91	1350	170	149	124	155	115	256	85	76	124
6	75	84	449	149	513	4450	257	113	169	113	117	342
7	517	83	175	138	212	390	171	110	358	83	152	308
8	281	33	139	130	158	329	3010	139	141	81	204	94
9	155	84	126	123	144	189	2200	111	104	78	77	83
10	98	84	117	120	148	164	318	109	96	76	72	77
11	110	84	699	143	142	151	227	109	92	77	70	86
12	100	165	970	115	126	141	192	108	89	73	69	73
13	1630	183	214	113	124	134	175	111	37	78	70	198
14	753	90	159	111	264	129	176	110	89	81	63	150
15	148	84	158	109	144	128	210	104	86	79	62	88
16	109	83	354	107	133	130	154	323	37	76	63	77
17	97	97	147	107	149	150	146	122	87	74	63	74
18	92	454	130	106	122	139	245	108	87	88	64	71
19	91	154	140	105	118	123	163	219	255	89	63	141
20	90	105	122	105	113	473	146	142	185	75	62	418
21	92	96	117	129	112	755	140	112	114	74	60	814
22	86	103	112	326	807	184	134	105	262	75	65	125
23	84	94	110	194	508	153	163	105	122	76	66	93
24	82	89	107	135	199	595	199	102	99	77	74	84
25	81	95	105	123	232	746	134	100	92	85	77	79
26	83	82	101	118	145	648	128	100	86	80	66	77
27	83	84	103	147	135	1910	125	98	86	74	64	77
28	82	293	423	133	136	315	123	96	97	70	62	75
29	81	669	210	113	---	214	121	111	93	68	60	74
30	80	436	134	117	---	184	119	104	96	66	59	73
31	80	---	120	110	---	332	---	94	---	158	63	---
TOTAL	5633	4523	7950	6290	7530	13961	10309	3791	3825	2723	2491	5211
MEAN	182	151	256	203	271	450	344	122	128	87.8	80.4	174
MAX	1630	669	1350	1830	1810	4450	3010	323	358	229	204	814
MIN	74	81	101	105	112	121	119	94	86	66	59	71
CFSM	1.84	1.53	2.59	2.05	2.74	4.55	3.48	1.23	1.29	.89	.81	1.76
IN.	2.12	1.70	2.99	2.36	2.85	5.25	3.87	1.42	1.44	1.02	.94	1.96
CAL YR 1982	TOTAL	72484	MEAN 199	MAX 3830	MIN 74	CFSM 2.01	IN 27.24					
WTR YR 1983	TOTAL	74287	MEAN 204	MAX 4450	MIN 59	CFSM 2.06	IN 27.91					

02203965 SOUTH RIVER NEAR LITHONIA, GA.

LOCATION.--Lat 33°39'14", long 84°11'12", DeKalb County, Hydrologic Unit 03070103, at bridge on State Highway 155, 2.0 mi south of State Highway 212, 2.4 mi downstream from Snapfinger Creek, and 6.2 mi 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 Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT									
05...	0730	--	252	7.3	7.3	21.0	18.0	5.1	58
NOV									
04...	1630	165	161	7.1	7.4	16.5	11.5	6.8	71
DEC									
07...	0930	171	165	7.0	7.4	13.0	6.0	8.4	80
JAN									
04...	0930	158	--	7.2	7.1	9.0	3.5	8.6	77
FEB									
01...	1030	230	202	7.3	7.4	11.0	13.0	8.6	79
MAR									
01...	0845	185	184	7.2	7.1	9.5	12.0	8.0	73
APR									
05...	0815	200	195	7.4	7.2	14.0	15.0	7.4	73
MAY									
04...	0930	205	190	7.1	7.3	16.5	18.5	6.3	66
JUN									
07...	1030	114	116	7.0	6.9	21.0	22.0	5.5	64
JUL									
05...	0730	215	190	6.9	7.3	24.0	23.0	4.8	59
AUG									
03...	1100	255	240	7.3	7.4	24.5	29.5	5.3	65
SEP									
08...	0715	230	215	7.3	7.6	23.0	20.0	5.2	62

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINEITY LAB (MG/L AS CAC03)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
05...	8	7.7	230	61	5	166	1.3	5.50	2.80	9.0
NOV										
04...	30	7.8	330000	41	37	152	.37	2.86	1.07	--
DEC										
07...	25	4.9	430	37	26	132	1.1	1.64	.510	6.0
JAN										
04...	35	10	9300	38	26	140	.94	1.72	.650	12
FEB										
01...	7	6.6	40	57	8	140	.86	5.28	1.62	6.3
MAR										
01...	40	>7.3	230000	44	53	156	.99	3.44	.960	9.2
APR										
05...	30	>8.6	15000	47	60	176	.98	3.46	2.04	13
MAY										
04...	20	>9.8	1700	49	30	140	.58	2.76	1.00	10
JUN										
07...	30	6.6	46000	24	174	284	.54	1.44	.980	13
JUL										
05...	25	8.8	210	50	21	172	1.4	3.10	1.30	6.9
AUG										
03...	15	7.2	490	60	6	148	.95	5.10	1.64	8.0
SEP										
08...	25	7.6	330000	56	23	152	.88	4.80	.790	9.5

02204285 PATES CREEK NEAR FLIPPEN, GA.

LOCATION.--Lat 33°29'34", long 84°14'44", Henry County, Hydrologic Unit 03070103, on left upstream headwall of culvert on county road, 3.6 mi west of Flippen, and 3.8 mi upstream from Little Cotton Indian Creek.
DRAINAGE AREA.--11.9 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 722 ft, from topographic map.

REMARKS.--Records good except those for period of no gage-height record, Sept. 21-30, which are poor. Flow during periods of low water affected by Clayton County spray irrigation of treated wastewater.

AVERAGE DISCHARGE.--6 years, 14.9 ft³/s, 17.00 in/yr.EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 816 ft³/s Nov. 5, 1977, gage height, 9.40 ft; minimum daily discharge, 1.1 ft³/s Sept. 9-11, 1981.EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 350 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 22	1700	386	4.57	Mar. 27	0015	412	4.82
Mar. 6	0415	*680	7.44	Apr. 8	1500	468	5.38

Minimum daily discharge, 3.8 ft³/s Oct. 2.DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	12	47	17	32	32	28	20	23	16	10	11
2	3.8	5.6	30	81	120	33	33	20	23	14	14	13
3	3.9	6.9	24	64	48	30	26	21	18	12	11	13
4	14	12	20	38	33	29	28	23	18	12	12	20
5	35	8.2	75	29	30	23	22	23	18	13	11	15
6	34	7.5	52	26	41	286	29	21	20	14	9.8	19
7	20	6.3	31	19	35	100	29	20	27	11	11	21
8	8.0	6.8	26	18	30	90	234	18	31	12	8.7	14
9	8.7	6.7	24	15	28	81	199	19	21	11	9.4	10
10	5.8	7.1	21	16	27	56	82	21	20	9.7	10	8.8
11	6.9	8.5	63	16	28	40	54	19	18	11	13	8.7
12	8.0	17	94	16	25	21	43	21	16	12	8.3	8.3
13	28	33	48	17	24	20	50	34	15	13	6.2	9.3
14	16	23	33	16	35	20	44	49	17	10	7.7	9.6
15	10	16	30	17	32	19	59	40	17	10	8.8	8.7
16	8.1	17	36	17	31	20	27	56	15	10	11	9.1
17	6.1	19	40	17	31	27	23	42	16	9.4	8.5	34
18	6.3	26	56	16	27	25	26	31	16	16	3.5	35
19	6.1	24	38	17	26	21	23	25	16	15	7.7	20
20	6.6	22	29	17	25	45	23	21	16	11	7.1	20
21	8.1	18	20	19	25	64	20	20	18	12	7.1	43
22	6.4	18	15	26	102	36	19	21	27	11	7.3	25
23	6.3	18	14	26	76	29	23	21	22	9.4	8.4	18
24	5.6	19	13	27	53	45	23	23	19	8.9	6.4	14
25	6.5	17	12	23	40	61	22	21	17	10	13	12
26	6.0	17	11	22	35	35	23	24	14	11	11	10
27	9.9	16	12	26	32	194	24	18	17	8.6	9.9	9.5
28	20	19	19	23	31	106	24	18	16	8.8	8.3	9.0
29	21	50	26	21	---	84	22	21	17	9.1	10	8.6
30	20	52	24	19	---	39	21	25	15	8.1	6.5	8.2
31	18	---	20	20	---	39	---	22	---	7.9	8.0	---
TOTAL	367.0	527.6	1003	741	1102	1805	1303	773	563	346.9	291.6	464.8
MEAN	11.6	17.6	32.4	23.9	39.4	58.2	43.4	25.1	13.8	11.2	9.41	15.5
MAX	35	52	94	81	120	286	234	56	31	16	14	43
MIN	3.8	5.6	11	15	24	19	19	18	14	7.9	6.4	8.2
CFSM	.99	1.48	2.72	2.01	3.31	4.89	3.65	2.11	1.58	.94	.79	1.30
IN.	1.15	1.65	3.14	2.32	3.44	5.64	4.07	2.43	1.76	1.08	.91	1.45
CAL YR 1982	TOTAL	5478.8	MEAN 15.0	MAX 209	MIN 3.1	CFSM 1.26	IN 17.13					
WTR YR 1983	TOTAL	9292.9	MEAN 25.5	MAX 286	MIN 3.8	CFSM 2.14	IN 29.05					

02204285 PATES CREEK NEAR FLIPPEN, GA.--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDEO (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEO (T/DAY)
NOV 02...	1125	5.3	15.5	14	.20
DEC 14...	0955	34	7.5	86	7.9
JAN 26...	0855	20	4.0	36	1.9
MAR 07...	1350	89	15.0	487	117
APR 21...	1450	20	15.0	25	1.4
JUN 01...	1230	22	20.0	40	2.4
JUL 12...	1230	11	24.0	34	1.0
AUG 23...	0715	6.3	24.0	54	.92

ALTAHAHA RIVER BASIN

02204520 SOUTH RIVER AT SNAPPING SHOALS, GA.

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

DRAINAGE AREA.--465 mi².

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 05...	0945	150	210	197	7.2	7.2	25.5	20.0	5.3	66
NOV 04...	1045	520	145	135	--	7.2	16.5	15.0	5.3	55
DEC 07...	1215	1200	76	71	6.6	7.0	13.0	20.0	7.7	73
JAN 04...	1215	1650	70	64	6.9	6.7	9.0	13.0	9.7	85
FEB 01...	1230	510	111	104	7.0	7.1	10.0	15.0	8.3	75
MAR 01...	1115	920	92	91	7.0	7.0	9.0	18.0	8.8	78
APR 05...	1100	850	--	77	7.1	7.0	13.0	17.0	8.0	77
MAY 04...	1200	620	100	98	6.9	7.1	17.5	21.5	6.8	72
JUN 07...	1545	1240	107	110	6.9	7.0	21.0	20.0	4.5	52
JUL 05...	1000	320	150	138	7.0	7.1	24.5	29.5	3.8	47
AUG 03...	1515	235	106	111	7.0	7.0	26.0	32.0	5.6	70
SEP 08...	0930	530	98	94	6.9	7.2	24.0	34.0	5.3	63

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CAC03)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 05...	7	11	1.1	490	35	5	140	2.5	.060	.60	1.55	5.0
NOV 04...	11	17	3.0	33000	29	8	112	2.1	.460	.90	.960	--
DEC 07...	74	28	2.5	7500	14	76	148	.72	.070	.70	.350	7.4
JAN 04...	56	27	3.0	4300	13	55	128	.70	.080	.70	.270	5.6
FEB 01...	8	10	2.4	230	21	5	84	1.3	.720	1.40	.450	2.0
MAR 01...	22	8	2.3	2300	18	18	88	1.4	.490	.80	.270	2.3
APR 05...	17	14	3.4	580	16	25	100	1.1	.260	.90	.360	2.4
MAY 04...	11	12	2.4	410	20	11	84	1.7	.280	.50	.320	2.6
JUN 07...	15	27	6.2	3100	21	138	256	1.6	.330	1.50	1.05	11
JUL 05...	12	12	3.2	130	29	11	112	2.1	1.00	1.60	.620	3.6
AUG 03...	24	20	1.0	80	19	7	72	1.5	.080	.50	.480	3.4
SEP 08...	68	16	2.5	17000	15	88	172	.90	.110	.80	.570	6.2

ALTAMAHA RIVER BASIN

67

02206500 YELLOW RIVER NEAR SNELLVILLE, GA.

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

DRAINAGE AREA.--134 mi².

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV 04...	0730	125	135	124	7.2	7.3	16.0	10.0	8.2
FEB 01...	0800	138	93	88	7.3	7.3	8.0	11.0	10.5
MAY 04...	0730	154	93	95	7.1	7.3	16.0	12.5	8.8
AUG 03...	0845	60	148	146	7.4	7.4	22.5	29.0	7.4

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINEITY LAB (MG/L AS CaCO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 04...	14	2.4	790	34	1.1	.060	.110	--
FEB 01...	9	1.0	230	23	.70	.180	.050	2.0
MAY 04...	13	1.9	1300	24	1.2	.040	.050	2.3
AUG 03...	18	.7	2000	27	1.6	.060	.080	2.4

ALTAMAHA RIVER BASIN

02207300 YELLOW RIVER AT MILSTEAD, GA.

LOCATION.--Lat 33°41'23", long 83°59'49", Rockdale County, Hydrologic Unit 03070103, at bridge on State Highway 20 at Milstead, 2.2 mi northeast of Conyers.

DRAINAGE AREA.--210 mi², approximately.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 05...	0830	75	110	106	7.3	7.2	19.0	21.5	6.6	72
NOV 04...	0930	190	103	95	6.9	7.3	16.0	10.0	7.4	77
DEC 07...	1105	950	63	57	6.7	7.1	12.5	15.0	8.8	83
JAN 04...	1100	1450	58	53	7.0	6.8	7.0	6.5	11.2	93
FEB 01...	1145	320	81	76	7.2	7.2	10.6	14.5	8.5	78
MAR 01...	1015	465	70	70	7.1	7.1	8.0	15.0	9.8	86
APR 05...	0915	950	62	57	7.3	7.1	12.0	15.5	9.1	86
MAY 04...	1045	350	75	77	7.1	7.2	17.0	20.0	8.4	89
JUN 07...	1345	400	69	71	7.1	7.1	21.0	22.0	7.5	37
JUL 05...	0845	190	78	77	7.1	7.3	24.5	25.0	6.6	81
AUG 03...	1230	132	89	93	7.2	7.2	24.5	30.5	6.0	74
SEP 08...	0815	250	80	80	7.1	7.5	23.0	25.5	6.8	81

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, CON- FIRMED (MPN)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LILITY LAB (MG/L AS CaCO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 05...	12	.6	4600	170	30	.22	.060	.060	2.0
NOV 04...	10	1.5	1700	790	27	.64	.050	.080	--
DEC 07...	70	1.7	23000	930	15	.26	.030	.100	6.0
JAN 04...	76	2.2	--	930	12	.36	.050	.090	4.1
FEB 01...	8	1.3	43000	4300	20	.73	.100	.020	1.5
MAR 01...	21	.3	930	90	17	.70	.080	.030	1.6
APR 05...	17	.9	9300	140	16	.44	.100	.120	2.0
MAY 04...	10	1.7	--	460	20	.79	.060	.030	1.6
JUN 07...	30	1.4	33000	3300	18	.64	.020	.140	4.8
JUL 05...	35	.9	1700	220	21	.58	.040	.030	1.3
AUG 03...	120	1.0	1700	130	24	.36	.060	.080	2.6
SEP 08...	36	.7	7900	430	20	.54	.050	.070	6.0

ALTAMAHA RIVER BASIN

69

02208005 YELLOW RIVER NEAR STEWART, GA.

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

DRAINAGE AREA.--440 mi², approximately.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 05...	1015	120	90	85	7.3	7.3	20.0	32.0	6.7	74
NOV 04...	1130	660	74	69	6.9	7.2	16.5	15.0	6.9	72
DEC 07...	1245	2360	53	51	6.8	7.2	13.5	20.5	8.8	85
JAN 04...	1300	3100	47	44	7.1	6.9	9.0	14.0	11.2	98
FEB 01...	1315	590	65	63	7.3	7.4	9.5	16.0	11.7	104
MAR 01...	1200	750	59	61	7.1	7.1	8.0	25.0	11.2	97
APR 05...	1130	960	52	50	7.2	7.2	13.0	17.0	9.3	89
MAY 04...	1230	600	62	63	7.2	7.3	18.0	24.5	8.8	94
JUN 07...	1630	640	64	65	7.3	7.2	21.5	20.0	7.7	90
JUL 05...	1030	350	69	71	7.5	7.4	25.0	30.5	7.0	87
AUG 03...	1645	230	104	109	7.4	7.5	26.0	32.0	7.6	96
SEP 08...	1000	500	64	63	7.1	7.4	23.5	34.5	7.3	86

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 05...	10	--	.8	220	23	6	.53	<.020	--	.120	1.0
NOV 04...	52	--	3.2	13000	20	87	.47	.040	--	.330	--
DEC 07...	78	--	1.6	2100	12	80	.29	.020	--	.140	7.1
JAN 04...	110	--	1.8	7500	10	67	.36	.050	--	.120	5.8
FEB 01...	8	--	.7	150	16	9	.60	.050	--	.050	1.6
MAR 01...	19	--	.1	3900	15	11	.65	.040	--	.060	1.7
APR 05...	19	--	.9	430	13	19	.39	.050	--	.050	1.5
MAY 04...	11	--	.9	330	16	11	.57	.060	--	.070	1.6
JUN 07...	14	--	.8	790	16	30	.64	.020	--	.130	5.6
JUL 05...	18	4	.4	1300	20	19	.60	.040	.30	.040	1.1
AUG 03...	11	12	1.3	170	25	6	.95	.050	<.10	.100	1.8
SEP 08...	56	6	.8	1300	17	54	.37	.020	.60	.120	4.6

ALTAMAHA RIVER BASIN

02208450 ALCOVY RIVER ABOVE COVINGTON, GA.

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

DRAINAGE AREA.--185 mi², approximately.

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

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

REMARKS.--Records good. Discharge affected by diversions by city of Covington.

AVERAGE DISCHARGE.--11 years, 265 ft³/s, 19.45 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,530 ft³/s Mar. 16, 1976, gage height, 14.79 ft; minimum daily discharge, 5.5 ft³/s July 26, 1981.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 28	0200	2000	10.38	Apr. 10	0500	*3340	12.04

Minimum daily discharge, 21 ft³/s Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	90	760	266	257	398	665	286	188	117	40	43
2	62	90	755	396	566	400	621	279	184	110	51	70
3	63	97	709	742	1150	360	564	276	172	109	57	134
4	62	213	555	881	1370	321	543	294	162	98	56	227
5	59	303	462	793	834	301	527	258	159	120	63	253
6	58	208	719	552	612	538	505	273	166	148	87	218
7	58	145	730	424	615	1010	500	254	193	139	104	193
8	73	126	596	362	638	943	711	251	239	112	72	162
9	95	117	401	326	574	674	2640	258	233	92	67	108
10	110	110	311	300	475	494	2940	256	200	83	60	87
11	108	103	326	288	433	411	1410	241	171	78	57	76
12	99	107	658	279	409	367	859	230	146	74	50	68
13	211	172	935	262	384	343	693	226	131	70	44	66
14	424	189	796	248	443	322	597	236	122	67	40	79
15	446	166	638	239	533	305	546	261	115	64	37	112
16	370	134	579	232	501	294	512	339	109	60	33	98
17	203	122	545	225	430	311	475	357	103	70	32	79
18	140	128	835	218	384	327	444	359	102	68	34	71
19	118	168	399	208	351	315	444	313	112	63	32	65
20	107	203	351	206	324	306	437	297	150	58	29	78
21	103	197	329	219	302	607	402	332	184	54	27	147
22	103	191	299	273	330	741	373	322	181	51	26	194
23	108	180	274	327	651	622	376	294	172	46	24	191
24	102	165	259	359	807	537	403	274	179	43	21	125
25	97	152	250	347	734	677	405	233	163	43	43	94
26	92	139	245	305	539	786	379	209	129	44	87	85
27	93	130	238	283	426	1380	340	194	111	45	94	80
28	91	136	237	292	377	1780	314	183	107	42	64	76
29	90	333	268	294	---	1260	301	177	126	39	51	72
30	89	614	302	281	---	810	293	189	136	35	45	69
31	90	---	299	264	---	684	---	209	---	35	42	---
TOTAL	3989	5228	15060	10691	15449	18624	20219	8190	4645	2277	1569	3420
MEAN	129	174	486	345	552	601	674	264	155	73.5	50.6	114
MAX	446	614	935	881	1370	1780	2940	359	239	148	104	253
MIN	58	90	237	206	257	294	293	177	102	35	21	43
CFSM	.70	.94	2.63	1.87	2.98	3.25	3.64	1.43	.84	.40	.27	.62
IN.	.80	1.05	3.03	2.15	3.11	3.74	4.07	1.65	.93	.46	.32	.69

CAL YR 1982	TOTAL	96615	MEAN 265	MAX 1780	MIN 58	CFSM 1.43	IN 19.43
WTR YR 1983	TOTAL	109361	MEAN 300	MAX 2940	MIN 21	CFSM 1.62	IN 21.99

ALTAMAHA RIVER BASIN

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02209260 ALCOVY RIVER ABOVE STEWART, GA.

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

DRAINAGE AREA.--250 mi², approximately.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 05...	1045	57	54	7.6	7.3	20.0	29.5	8.4	93
NOV 04...	1215	54	51	7.3	7.3	15.5	14.5	8.3	84
DEC 07...	1330	46	43	6.6	6.8	13.5	20.5	9.5	91
JAN 04...	1330	42	40	6.9	6.8	9.0	13.0	10.4	91
FEB 01...	1415	46	43	7.2	7.2	9.5	16.0	10.5	94
MAR 01...	1230	43	43	7.0	6.9	8.0	20.0	11.4	99
APR 05...	1145	41	50	7.1	7.0	13.5	18.5	9.1	88
MAY 04...	1300	48	50	7.3	7.3	19.0	23.0	9.0	99
JUN 07...	1715	43	49	7.2	7.2	20.5	20.5	7.9	90
JUL 05...	1100	54	55	7.7	7.5	25.0	31.0	7.4	92
AUG 03...	1745	56	58	7.3	7.2	25.0	30.0	7.7	95
SEP 08...	1030	43	51	7.1	7.3	24.0	33.0	8.0	96

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 05...	9	4	.3	70	18	1	.27	<.020	.10	.030	2.0
NOV 04...	8	11	1.4	170	19	4	.21	.020	.30	.030	--
DEC 07...	48	22	1.4	230	10	36	.20	.060	.30	.090	5.8
JAN 04...	44	13	2.1	4300	10	34	.34	.040	.50	.080	4.5
FEB 01...	7	4	.8	90	12	3	.40	.080	.20	.020	2.3
MAR 01...	13	8	.7	70	13	3	.39	.070	.20	.030	1.7
APR 05...	11	7	1.0	40	11	7	.24	.050	.30	.020	1.6
MAY 04...	10	12	.9	20	17	3	.33	.050	.20	.040	2.4
JUN 07...	6	4	.6	140	17	10	.40	.040	.20	.040	2.3
JUL 05...	14	--	.6	<45	20	5	.46	.110	--	.030	<1.0
AUG 03...	15	--	.9	490	20	5	.29	.060	--	.020	3.8
SEP 08...	17	--	.5	230	11	19	.25	.040	--	.060	4.7

ALTAMAHA RIVER BASIN

02210500 OCMULGEE RIVER NEAR JACKSON, GA.

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

DRAINAGE AREA.--1,420 mi², approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Water-discharge records for water years 1906-15, 1939-60, and 1975-82 are published in records of the U.S. Geological Survey. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin," station 02210000.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 05...	1145	496	100	95	6.8	7.0	23.0	31.5	3.5	41
NOV 04...	1430	760	82	78	7.1	7.3	17.5	14.0	7.6	80
DEC 07...	1430	5250	74	75	6.8	7.2	15.0	21.0	9.2	81
JAN 04...	1415	8000	68	65	7.1	6.9	10.0	14.0	9.7	86
FEB 01...	1600	2330	80	73	7.3	7.2	5.8	17.0	11.8	96
MAR 01...	1330	2840	57	60	7.1	7.1	10.0	23.5	11.5	105
APR 05...	1230	3260	53	50	7.2	7.1	12.5	20.0	10.2	96
MAY 04...	1400	1950	62	64	7.2	7.2	18.0	25.0	8.4	90
JUN 07...	1830	--	73	74	6.9	7.0	21.5	20.0	4.0	47
JUL 05...	1300	--	77	78	7.0	--	25.0	32.0	3.5	43
AUG 03...	1915	--	86	88	6.9	7.1	26.5	28.5	3.1	39
SEP 08...	1115	--	103	102	7.0	7.5	27.0	33.0	3.4	43

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINEITY LAB (MG/L AS CAC03)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 05...	3	2.3	20	25	3	.40	.110	.080	4.0
NOV 04...	4	1.7	20	22	4	.38	.110	.070	--
DEC 07...	18	1.3	590	18	9	.56	.150	.120	3.5
JAN 04...	25	1.6	430	15	7	.60	.150	.120	2.7
FEB 01...	9	1.7	30	16	3	.69	.360	.110	2.0
MAR 01...	31	.8	430	14	9	.63	.160	.100	2.7
APR 05...	25	.8	40	12	7	.44	.130	.080	2.3
MAY 04...	8	1.6	<20	15	2	.58	.100	.080	2.5
JUN 07...	2	1.6	20	19	2	.56	.300	.080	2.6
JUL 05...	6	1.1	<20	--	3	.68	.090	.040	1.1
AUG 03...	4	.7	20	24	6	.21	.170	.070	3.0
SEP 08...	10	3.1	20	29	11	.36	.400	.140	6.8

ALTAMAHA RIVER BASIN

73

02212500 OCMULGEE RIVER AT JULIETTE, GA.

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

DRAINAGE AREA.--1,960 mi².

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

REVISED RECORDS.--WSP 1304: Drainage area. WRD GA-80-1: 1920(M), 1975(M).

GAGE.--Water-stage recorder. Datum of gage is 340.97 ft, National Geodetic Vertical Datum of 1929.

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

AVERAGE DISCHARGE.--14 years (1916-21, 1974-83), 2,594 ft³/s, 17.97 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 67,400 ft³/s Dec. 11, 1919, gage height, 30.8 ft; minimum daily discharge, 363 ft³/s Oct. 7, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 32 ft in May 1886, from floodmarks, discharge, 73,000 ft³/s, revised.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 13,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 8	0430	14800	13.72	Apr. 9	2000	*28100	19.95
Mar. 28	0730	18100	15.47				

Minimum daily discharge, 525 ft³/s Aug. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	558	706	4980	2940	2650	3590	5990	3000	1860	1750	660	753
2	595	817	4330	5080	6120	3400	5020	2810	1410	1470	766	719
3	595	768	3940	9300	9260	3130	4630	2660	1320	1400	740	740
4	601	550	3050	8240	10100	2910	4600	2530	1290	1320	718	940
5	638	1730	3880	7580	7710	2720	4110	2550	1420	1260	706	1210
6	923	1360	6180	5170	6200	4840	3520	2460	1470	1160	712	1090
7	601	758	5270	4940	5400	8970	3610	2370	1860	860	725	1170
8	619	1100	4960	4720	4980	13300	10800	2300	2030	1140	786	1340
9	644	1080	3160	4460	4300	8460	26000	2240	2050	1050	763	1200
10	651	774	2790	4120	3500	5620	26300	1950	1940	793	751	923
11	1030	735	3780	3830	2480	3680	20900	1040	1810	899	720	669
12	1630	792	3670	3580	2540	2950	13200	1020	1620	1170	662	1120
13	2660	1610	7670	3160	2580	2750	7790	1020	1600	917	653	1070
14	2860	949	8020	1570	4990	2530	4670	1280	1080	745	646	1280
15	4080	1380	4900	1740	4630	2490	2360	1560	908	738	634	896
16	2820	1370	4060	1050	3980	2500	2350	2010	1430	740	626	717
17	2030	1070	3530	1000	3610	2690	3220	2090	996	744	625	869
18	1140	1410	3330	1810	3310	2870	3530	2010	905	754	619	660
19	1480	1590	3200	2030	3060	2730	4040	2020	1070	828	619	669
20	1520	2100	2200	1320	2830	2610	3740	2120	1510	822	601	910
21	1090	1420	2320	945	2640	3880	2370	2130	1840	953	525	1720
22	722	1040	1960	1470	2770	5830	3140	2140	1620	715	549	2590
23	954	1200	2660	1770	3900	5610	2520	2100	3130	714	548	2800
24	795	1440	2030	2130	5540	5050	4600	2070	2830	634	570	1500
25	923	1120	1890	2000	6400	6460	3490	2010	1870	972	649	962
26	1060	801	1690	1920	5090	7570	2640	1740	1070	790	609	673
27	696	1150	1960	1930	4230	14800	3040	1500	1170	667	604	1100
28	908	1130	2020	1990	3650	17600	2880	1490	872	659	591	769
29	1290	2980	3270	1960	---	13400	2930	1480	1500	645	583	900
30	768	3580	2500	2030	---	9140	3130	1470	1520	637	568	820
31	694	---	2970	2160	---	6930	---	1480	---	614	567	---
TOTAL	37575	38870	120120	98045	123450	181010	191670	60670	47061	28460	20095	32979
MEAN	1212	1296	3275	3163	4588	5839	6389	1957	1569	918	643	1099
MAX	4080	3580	9670	8300	10100	17600	26300	3000	3130	1750	786	2800
MIN	558	706	1690	945	2480	2490	2360	1020	872	614	525	660

CAL YR 1982	TOTAL	860354	MEAN	2357	MAX	20200	MIN	535	MEAN†	2345	CFSTM†	1.20	IN†	16.24
WTR YR 1983	TOTAL	985005	MEAN	2699	MAX	26300	MIN	525	MEAN†	2704	CFSTM†	1.38	IN†	18.73

† 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, Hydrologic Unit 03070103, on left bank 100 ft upstream from highway bridge, 4 mi upstream from Caney Creek, and 5.1 mi east of Juliette.

DRAINAGE AREA.--72.2 mi².

WATER-DISCHARGE RECORDS

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

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

REMARKS.--Records good except those of no gage-height record, Aug. 20 to Sept. 14, which are poor.

AVERAGE DISCHARGE.--19 years, 66.4 ft³/s, 12.49 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,700 ft³/s Mar. 2, 1971, gage height, 23.0 ft, from Floodmark; minimum, 0.08 ft³/s Oct. 5-7, 1981.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 2	1945	1320	11.12	Mar. 6	1145	1500	11.90
Feb. 14	2015	2060	13.78	Apr. 9	0215	*3310	16.82

Minimum daily discharge, 1.4 ft³/s Aug. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	14	180	80	71	132	114	37	14	27	4.4	20
2	2.0	15	107	598	1010	100	104	35	12	22	8.5	10
3	2.0	17	72	612	439	74	103	35	12	16	8.9	35
4	2.0	34	57	188	141	63	75	50	12	12	7.1	20
5	2.0	40	63	110	97	67	64	41	13	10	6.0	12
6	1.9	31	134	83	99	1160	76	35	13	9.3	5.6	9.0
7	2.2	28	82	68	108	290	75	31	21	8.7	13	7.0
8	3.1	25	57	60	84	140	1180	29	40	7.8	11	6.0
9	10	24	48	55	69	94	2120	29	29	6.8	6.7	5.5
10	13	24	44	53	65	71	712	28	23	6.3	5.4	4.5
11	60	21	234	51	84	63	223	26	18	5.9	4.5	4.0
12	40	19	730	48	71	57	138	24	15	5.6	3.7	8.0
13	407	79	221	45	65	53	98	24	13	5.3	3.2	5.0
14	178	68	106	44	1320	50	74	24	12	5.0	2.7	5.5
15	57	45	73	43	837	48	75	23	11	5.3	2.4	4.6
16	36	35	389	42	188	52	69	27	10	28	2.3	4.0
17	27	30	169	41	121	109	57	33	9.5	16	2.2	3.6
18	23	38	95	41	90	131	54	26	9.2	10	2.7	3.4
19	20	62	74	40	73	84	56	25	9.3	8.1	2.4	4.0
20	18	53	65	41	63	71	49	23	12	7.0	2.2	12
21	17	44	56	79	57	144	46	28	16	6.4	2.0	24
22	16	40	51	275	126	98	44	25	19	5.7	1.9	14
23	14	38	47	303	402	69	62	23	30	4.9	1.8	7.8
24	13	35	46	152	147	124	206	20	20	4.2	1.7	6.3
25	13	32	44	97	118	284	98	18	16	4.3	1.6	5.4
26	13	30	42	73	87	163	63	16	13	8.6	1.7	4.9
27	13	28	40	67	70	614	51	15	11	8.2	1.6	4.5
28	12	30	41	82	67	257	45	14	22	6.4	1.5	4.2
29	12	196	105	70	---	125	41	14	25	5.0	1.5	4.0
30	12	192	115	87	---	93	39	20	23	4.2	1.4	4.0
31	12	---	78	92	---	114	---	16	---	3.7	5.0	---
TOTAL	1053.3	1367	3670	3720	6169	4994	6211	819	503.0	283.7	126.6	262.2
MEAN	34.0	45.6	118	120	220	161	207	26.4	16.8	9.15	4.08	8.74
MAX	407	196	730	612	1320	1160	2120	50	40	28	13	35
MIN	1.9	14	40	40	57	48	39	14	9.2	3.7	1.4	3.4
CFSM	.47	.63	1.63	1.66	3.05	2.23	2.87	.37	.23	.13	.06	.12
IN.	.54	.70	1.89	1.92	3.18	2.57	3.20	.42	.26	.15	.07	.14
CAL YR 1982	TOTAL	20932.8	MEAN	57.4	MAX	1480	MIN	1.9	CFSM	.80	IN	10.79
WTR YR 1983	TOTAL	29178.8	MEAN	79.9	MAX	2120	MIN	1.4	CFSM	1.11	IN	15.03

ALTAMAHA RIVER BASIN

02212600 FALLING CREEK NEAR JULIETTE, GA.--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: August 1965 to September 1979.

EXTREMES FOR PERIOD OF DAILY RECORD.--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 05...	0630	2.0	145	146	7.8	7.6	18.0	7.7	83
JAN 18...	0930	41	96	94	7.5	7.3	3.0	12.8	96
MAY 24...	0730	20	125	129	7.7	7.2	20.5	7.6	86
AUG 16...	0800	2.4	150	142	7.6	7.8	20.0	7.2	80

DATE	TUR- BID- ITY (NTU)	COLI- FORM, FECAL, 0.7 UM-MF (CCLS./ 100 ML)	STREP- TOCOCOI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT 05...	2.2	K50	K250	53	0	12	5.6	9.9	28	.6	1.9
JAN 18...	9.0	K80	K10	36	0	7.8	4.1	6.8	28	.5	1.0
MAY 24...	4.5	180	1500	50	0	11	5.5	7.7	25	.5	1.1
AUG 16...	3.1	60	650	53	0	12	5.7	9.3	27	.6	1.6

DATE	ALKA- LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT 05...	68	2.1	<5.0	4.0	.80	21	100	--	.54	.14
JAN 18...	41	2.5	11	3.5	.30	18	69	77	7.6	.09
MAY 24...	61	2.4	3.3	2.3	.50	20	87	89	4.7	.12
AUG 16...	69	3.4	2.3	3.6	.60	23	122	99	.79	.17

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
OCT 05...	<.10	<.010	.30	.040	.040	.030
JAN 18...	<.10	.020	.50	.020	.030	<.010
MAY 24...	<.10	.040	.30	<.010	.030	.040
AUG 16...	<.10	.020	.60	.080	.010	<.010

ALTAMAHA RIVER BASIN

02212600 FALLING CREEK NEAR JULIETTE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
OCT 05...	30	1	35	1	1	<1	3	2	470	<1
MAY 24...	<10	1	33	<1	<1	<1	3	2	210	2

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 05...	4	460	<.1	10	1	<1	<1	100	6.0	4
MAY 24...	<4	100	<.1	<10	2	<1	<1	93	<6.0	5

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, DIS- SUS- PENDE (MG/L)	SEDI- MENT, DIS- SUS- PENDE (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 05...	0635	2.0	18.0	6	.03	100
JAN 18...	0835	41	3.0	10	1.1	78
MAY 24...	0735	20	20.5	5	.27	58
AUG 16...	0810	2.4	20.0	6	.04	82

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	GROSS ALPHA, DIS- SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS YT-90)	RADIUM 226, DIS- SOLVED (PCI/L AS METHOD)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)
AUG 16...	0805	2.4	6.2	9.1	<.4	5.8	<.4	5.6	<.4	<.02	.25

ALTAMAHA RIVER BASIN

77

02212950 OCMULGEE RIVER ABOVE MACON, GA.

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

DRAINAGE AREA.--2,240 mi², approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Discharge obtained from gaging station 02213000, Ocmulgee River at Macon, Ga. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin," station 02210000.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
20...	1330	1840	35	80	--	7.3	19.5	23.0	8.5	93
NOV										
09...	1310	1660	52	82	--	7.5	13.5	12.5	10.0	96
DEC										
16...	0840	5960	60	62	6.8	7.1	11.0	9.5	10.4	--
JAN										
18...	1400	1620	62	64	--	7.0	6.5	5.0	11.8	97
FEB										
23...	1350	4260	58	63	6.5	7.1	9.0	8.0	11.0	97
MAR										
30...	1400	10500	48	48	6.5	7.0	11.0	16.0	10.2	93
APR										
26...	1345	3350	59	65	--	7.0	17.0	22.0	9.4	98
MAY										
24...	1125	2160	67	70	7.0	7.1	21.5	23.0	7.8	89
JUN										
22...	1230	2120	75	75	7.3	7.4	24.0	23.0	7.3	88
JUL										
21...	1220	785	37	36	--	7.4	31.5	35.0	7.0	96
AUG										
17...	1350	528	96	97	7.1	7.8	29.5	31.0	8.1	107
SEP										
29...	1245	1050	100	100	--	7.6	21.0	23.0	9.2	104

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, CON- FIRMED (MPN)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
20...	15	.8	7900	20	19	6	.58	.040	.080	--
NOV										
09...	7	.4	960	65	22	3	.35	.040	.040	--
DEC										
16...	75	1.1	43000	2300	15	55	.51	.180	.120	4.3
JAN										
18...	20	.9	90	40	18	<1	.54	.020	.040	3.1
FEB										
28...	29	1.2	7500	230	14	14	.58	.060	.090	2.3
MAR										
30...	60	1.3	--	--	11	45	.38	.070	.310	5.4
APR										
26...	18	2.1	2300	70	17	6	.35	.030	.500	6.6
MAY										
24...	8	--	1100	20	18	6	.55	.050	.040	2.6
JUN										
22...	8	.5	2300	490	20	8	.36	.050	.040	2.0
JUL										
21...	9	.8	11000	40	26	9	.24	<.020	.020	3.2
AUG										
17...	2	.5	900	65	26	<1	.41	.030	.020	6.4
SEP										
29...	10	2.0	6300	2300	27	14	.47	.050	.150	5.4

02213000 OCMULGEE RIVER AT MACON, GA.

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

DRAINAGE AREA.--2,240 mi², 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, National Geodetic Vertical Datum of 1929. Prior to Oct. 9, 1905, non-recording gage at sites within 1.5 mi 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 downstream at same datum. June 25, 1934, to June 25, 1973, water-stage recorder at present site and datum, and June 26, 1973, to Oct. 13, 1974, nonrecording gage at present site and datum.

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

AVERAGE DISCHARGE.--73 years (1893-1911, 1928-83), 2,721 ft³/s, 16.50 in/yr, unadjusted.

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

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 8	1600	14500	18.53	Apr. 10	0300	*34100	23.63
Mar. 28	2000	18400	19.76				

Minimum daily discharge, 443 ft³/s Aug. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	547	684	4920	3460	2790	4490	6890	3550	1680	1720	669	750
2	539	680	5090	5840	7760	4260	5840	3350	1740	1940	730	754
3	570	863	4790	9980	9140	3810	5170	3190	1410	1540	734	763
4	556	847	3460	8710	10900	3450	4940	3120	1120	1420	674	724
5	565	1320	3390	8640	8640	3220	4600	2950	1450	1270	651	1270
6	823	1720	6080	7180	7080	11500	4020	2910	1480	1290	668	1180
7	655	864	6090	5680	6020	8260	4030	2800	2020	862	738	1100
8	622	738	5520	5170	5520	13300	9720	2690	2220	1070	670	1340
9	644	1380	3930	4920	4900	9870	30500	2600	2520	980	705	1520
10	663	790	3220	4580	4320	7130	32200	2390	2280	740	652	1190
11	843	765	3730	4250	3240	5080	26700	1620	1990	688	678	818
12	1590	730	9690	3970	2870	3750	15700	1230	1810	1030	586	779
13	2840	1520	9800	3720	2930	3300	9490	1200	1700	907	573	1500
14	3070	1160	9320	2050	9460	3020	6450	1210	1540	671	556	1140
15	3940	956	6530	2140	7770	2860	3650	1670	991	686	553	1270
16	3690	1660	5870	1420	5430	2920	3380	2000	1270	741	537	804
17	2280	1290	4830	1100	4540	3250	3730	2240	1380	689	538	970
18	1730	1200	4040	1320	4020	3670	3940	2180	945	685	536	765
19	1090	1620	3710	2170	3630	3430	4550	2110	1160	697	528	749
20	1540	1990	2860	1940	3320	3220	4430	2230	1230	813	525	796
21	1470	2040	2610	1330	3040	4460	3500	2270	1770	766	481	1450
22	777	1020	2330	2150	3910	5670	3470	2260	1950	658	443	2130
23	929	1320	2580	2690	6270	6330	3260	2210	2510	649	454	3010
24	812	1190	2500	2650	5720	5590	4980	2150	3450	634	452	2090
25	709	1460	2210	2470	6810	6580	5010	2110	2380	566	520	1330
26	1210	841	1990	2230	6030	7440	3420	1880	1350	994	530	667
27	741	1040	1920	2150	5020	13300	3470	1650	1400	641	512	842
28	682	1200	2300	2220	4340	17700	3480	1540	1060	610	495	889
29	1120	2270	4010	2190	---	16000	3450	1530	1330	599	488	849
30	1100	3810	3650	2320	---	10800	3480	1520	1830	596	470	703
31	698	---	3390	2390	---	8070	---	1500	---	590	467	---
TOTAL	39045	38968	136360	113030	155420	205730	227450	67860	50966	27742	17813	34142
MEAN	1260	1299	4399	3646	5551	6636	7582	2189	1699	895	575	1138
MAX	3940	3810	9800	9980	10900	17700	32200	3550	3450	1940	738	3010
MIN	539	680	1920	1100	2790	2860	3260	1200	945	566	443	667

CAL YR 1982	TOTAL	938417	MEAN	2571	MAX	23100	MIN	532	MEAN+	2559	CFSM+	1.14	IN+	15.51
WTR YR 1983	TOTAL	1114526	MEAN	3053	MAX	32200	MIN	443	MEAN+	3058	CFSM+	1.37	IN+	18.53

+ 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, Hydrologic Unit 03070103, on downstream side of right bank pier of abandoned bridge, 500 ft downstream from bridge on State Highway 18, 1.4 mi upstream from Bonner Creek, and 5.5 mi southwest of Gray.

DRAINAGE AREA.--29 mi², approximately.

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

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

REMARKS.--Records good except those for period of no gage-height record, Oct. 1-6, July 11-31, and Aug. 9-17, which are poor.

AVERAGE DISCHARGE.--22 years, 33.6 ft³/s, 15.73 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,500 ft³/s Dec. 26, 1964, gage height, 23.8 ft, from floodmark, from rating curve extended above 5,000 ft³/s on basis of contracted-opening measurement of peak flow; minimum daily discharge, no flow Oct. 3-5, 1981.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 14	1145	1930	6.41	Mar. 6	0645	*4730	11.68
Feb. 22	2015	1440	4.98	Apr. 9	1745	1440	4.98

Minimum daily discharge, 0.87 ft³/s Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.95	2.7	26	44	37	30	46	19	7.2	11	52	9.2
2	.96	2.8	15	227	328	58	42	18	7.0	11	31	4.3
3	.95	5.1	12	153	91	52	38	19	6.9	8.8	9.4	5.0
4	.92	17	11	67	54	48	33	21	7.2	7.5	6.8	3.5
5	.90	7.8	21	46	42	47	31	17	9.7	7.2	5.8	3.1
6	.87	5.0	29	37	46	1490	30	16	9.6	8.5	5.7	6.9
7	1.2	4.6	15	31	40	140	66	15	26	7.0	7.1	3.8
8	2.0	4.5	12	26	32	79	525	15	17	6.5	5.3	2.7
9	2.4	4.4	10	24	30	60	634	14	37	6.4	4.7	2.3
10	3.7	4.2	9.8	23	32	50	220	14	13	6.0	4.3	2.0
11	36	4.3	108	21	46	44	92	13	10	5.6	3.9	1.9
12	5.7	5.6	127	18	33	40	64	12	9.2	5.1	3.5	4.1
13	27	20	46	17	36	37	51	12	8.5	4.7	3.1	2.8
14	26	8.0	28	16	991	35	45	12	7.8	4.4	2.7	3.2
15	6.8	6.1	23	15	163	32	44	11	7.5	4.8	2.5	2.6
16	4.5	5.8	139	14	30	38	36	13	7.2	4.7	2.3	2.2
17	3.2	5.3	50	14	59	85	32	12	6.9	4.2	2.1	2.0
18	2.8	11	31	13	46	67	33	11	6.5	3.9	2.0	1.8
19	2.5	14	27	13	41	55	31	12	7.4	3.6	1.9	2.8
20	2.7	9.5	23	14	38	89	28	13	8.3	3.3	1.8	5.4
21	2.8	8.5	17	63	36	266	24	12	7.9	3.1	1.7	4.4
22	2.7	8.5	15	122	371	77	23	11	16	2.9	1.6	3.2
23	2.4	7.5	14	93	231	61	46	10	13	2.8	1.6	2.3
24	2.3	6.9	14	55	53	77	73	9.7	9.3	2.7	1.5	2.0
25	2.4	6.0	13	41	75	81	37	9.2	7.9	2.6	3.2	2.0
26	2.4	6.0	12	33	57	65	29	9.0	7.0	14	2.4	1.8
27	2.3	6.1	12	34	52	199	25	8.6	6.9	5.0	2.2	1.7
28	2.3	6.9	27	38	50	84	23	8.2	49	3.8	1.9	1.6
29	2.4	43	169	30	---	60	21	8.2	18	2.9	1.6	1.6
30	2.5	25	76	61	---	46	20	8.2	11	2.5	1.3	1.5
31	2.5	---	50	45	---	57	---	7.9	---	2.3	1.4	---
TOTAL	159.08	272.1	1181.8	1448	3221	3699	2442	391.0	364.9	168.8	178.3	93.7
MEAN	5.13	9.07	38.1	46.7	115	119	81.4	12.6	12.2	5.45	5.75	3.12
MAX	36	43	169	227	991	1490	634	21	49	14	52	9.2
MIN	.87	2.7	9.8	13	30	32	20	7.9	6.5	2.3	1.3	1.5
CFSM	.18	.31	1.31	1.61	3.97	4.10	2.81	.43	.42	.19	.20	.11
IN.	.20	.35	1.52	1.86	4.13	4.74	3.13	.50	.47	.22	.23	.12

CAL YR 1982	TOTAL	9201.28	MEAN	25.2	MAX	875	MIN	.87	CFSM	.37	IN	11.80
WTR YR 1983	TOTAL	13619.68	MEAN	37.3	MAX	1490	MIN	.37	CFSM	1.29	IN	17.47

ALTAMAHA RIVER BASIN

02213500 TOBESOFKEE CREEK NEAR MACON, GA.

LOCATION.--Lat 32°48'32", long 83°45'30", Bibb County, Hydrologic Unit 03070103, on right bank at downstream end of pier of bridge on State Highway 22 connector, 8 mi west of Macon, and 14 mi upstream from mouth.

DRAINAGE AREA.--182 mi².

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

REVISED RECORDS.--WSP 1204: 1942.

GAGE.--Water-stage recorder. Datum of gage is 309.98 ft, National Geodetic Vertical Datum of 1929. 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 upstream. Records of chemical analyses for the water years 1969-70 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--46 years, 196 ft³/s, 14.62 in/yr.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 5	1245	2140	9.89	Apr. 9	0330	*4690	16.30
Feb. 14	1530	2140	9.92				

Minimum daily discharge, 30 ft³/s Aug. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	36	256	208	276	558	383	198	144	109	37	42
2	34	36	236	849	849	304	345	196	136	113	38	50
3	33	36	161	1480	1670	41	334	199	125	112	40	59
4	32	39	133	972	661	40	258	200	119	109	43	63
5	31	44	99	1810	169	39	251	197	115	105	46	74
6	32	48	404	1870	412	175	218	190	116	99	54	90
7	32	49	297	640	341	708	313	175	122	93	67	81
8	32	50	208	284	214	529	1340	148	128	87	74	72
9	32	50	174	282	83	416	3390	131	139	79	75	64
10	33	48	119	233	235	378	1720	135	190	70	73	59
11	34	45	311	153	387	221	836	139	174	65	70	56
12	34	45	1130	153	151	107	522	144	145	61	66	56
13	48	51	539	151	143	198	329	154	137	58	60	58
14	44	59	310	149	1420	228	310	197	124	56	56	56
15	36	63	216	149	1800	210	315	167	114	58	53	54
16	38	71	697	149	826	333	315	177	107	52	48	49
17	45	69	355	147	594	390	301	173	103	48	44	44
18	49	80	261	148	467	426	289	164	88	47	41	42
19	51	122	218	143	330	331	272	160	76	44	39	42
20	46	107	176	149	218	344	240	157	78	43	37	42
21	44	95	157	235	143	761	203	153	80	43	36	45
22	44	91	125	462	590	422	145	145	85	41	35	48
23	41	86	108	589	862	323	119	138	92	41	34	45
24	43	82	105	504	338	293	668	141	99	40	33	43
25	41	34	103	275	337	554	359	140	105	40	33	40
26	40	52	109	275	337	401	273	138	106	42	32	40
27	39	79	110	275	218	1400	194	143	103	41	31	38
28	38	74	163	274	400	1010	197	143	103	40	31	36
29	39	214	535	274	---	464	200	142	104	38	31	35
30	37	337	321	276	---	374	200	142	106	37	30	35
31	37	---	251	272	---	399	---	142	---	36	31	---
TOTAL	1195	2372	8387	13835	14551	12377	14919	4968	3463	1947	1418	1558
MEAN	38.5	79.1	271	446	520	399	497	160	115	62.8	45.7	51.9
MAX	51	337	1130	1870	1860	1400	3390	200	190	113	75	90
MIN	31	36	99	147	83	39	119	131	76	36	30	35
CFSM	.21	.44	1.49	2.45	2.86	2.19	2.73	.88	.63	.35	.25	.29
IN.	.24	.48	1.71	2.83	2.97	2.53	3.05	1.02	.71	.40	.29	.32

CAL YR 1982	TOTAL	61143	MEAN	168	MAX	2890	MIN	31	CFSM	.92	IN	12.50
WTR YR 1983	TOTAL	80990	MEAN	222	MAX	3390	MIN	30	CFSM	1.22	IN	16.55

ALTAMAHA RIVER BASIN

81

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.

LOCATION.--Lat 32°40'17", long 83°36'11", Bibb-Twiggs County line, Hydrologic Unit 03070103, on right bank 0.8 mi upstream from Echeconnee Creek, 4 mi northeast of Warner Robins, and 5.7 mi downstream from Tobesofkee Creek.
DRAINAGE AREA.--2,690 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1972 to current year, discharge below 3,600 ft³/s, only.

GAGE.--Water-stage recorder. Altitude of gage is 251 ft, from topographic map.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 15.07 ft Feb. 25, 1979; minimum daily discharge, 397 ft³/s Sept. 28, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 14.66 ft Apr. 10; minimum daily discharge, 619 ft³/s Aug. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	695	823	---	---	3220	---	---	3570	1650	2210	719	727
2	682	814	---	---	---	---	---	3550	1910	2290	908	1060
3	693	844	---	---	---	---	---	3450	1640	1990	1050	1040
4	701	1040	---	---	---	---	---	3390	1430	1700	1200	1000
5	688	1090	---	---	---	---	---	3300	1400	1540	1110	1030
6	697	1660	---	---	---	---	---	3210	1600	1480	1030	1360
7	914	1570	---	---	---	---	---	3110	1840	1400	1150	1270
8	950	1010	---	---	---	---	---	3000	2950	1120	1230	1250
9	1000	1060	---	---	---	---	---	2930	3100	1260	1190	1520
10	1050	1250	---	---	---	---	---	2840	2990	1170	1070	1350
11	1100	924	---	---	---	---	---	2530	2520	950	948	1150
12	1130	900	---	---	---	---	---	1680	2160	970	906	890
13	1750	963	---	---	---	---	---	1470	1900	1200	824	1060
14	2360	1590	---	---	---	---	---	1430	1770	1090	805	1270
15	3070	1240	---	2750	---	3480	---	1620	1400	908	774	1250
16	3530	1370	---	2420	---	3470	---	1970	1130	962	754	1110
17	3250	1500	---	1740	---	---	---	2420	1420	944	728	849
18	2440	1340	---	1580	---	---	---	2550	1240	906	721	946
19	1500	1670	---	2130	---	---	---	2500	1050	900	712	802
20	1390	1970	---	2430	---	---	---	2480	1210	894	704	838
21	1550	2390	---	2130	---	---	---	2580	1460	966	695	978
22	1300	1950	3160	2490	---	---	---	2560	1910	926	638	1650
23	905	1340	2880	3380	---	---	---	2550	2290	325	619	2420
24	1020	1440	3150	---	---	---	---	2480	3240	800	621	2680
25	911	1490	2840	---	---	---	---	2400	3220	772	621	1730
26	922	1410	2580	3360	---	---	---	2290	2450	867	706	1170
27	1150	1060	2340	3030	---	---	---	2020	1430	1010	704	822
28	854	1240	2520	2940	---	---	---	1750	1420	807	693	1020
29	890	1310	---	2970	---	---	---	1690	1370	760	682	922
30	1210	3060	---	2990	---	---	3550	1680	1970	733	664	954
31	1000	---	---	3140	---	---	---	1660	---	725	643	---
TOTAL	41852	41323	---	---	---	---	---	76680	57120	35095	25819	36118
MEAN	1350	1377	---	---	---	---	---	2474	1904	1132	833	1204
MAX	3530	3060	---	---	---	---	---	3570	3240	2290	1230	2680
MIN	682	814	---	---	---	---	---	1430	1050	725	619	727

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

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1970 to current year.

pH: October 1971 to current year.

WATER TEMPERATURES: February 1970 to current year.

DISSOLVED OXYGEN: May 1970 to current year.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 260 micromhos Sept. 29, 1981; minimum recorded, 25 micromhos Jan. 7, 1974.

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

WATER TEMPERATURE: Maximum, 34.5°C July 17, 1981; minimum, 1.0°C Jan. 19, 20, 1977.

DISSOLVED OXYGEN: Maximum recorded, 16.5 mg/L Mar. 12, 1970; minimum, 0.0 mg/L June 8, 9, 1971, Sept. 17, 1980.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 180 micromhos Aug. 25, 30, 31; minimum, 47 micromhos Apr. 10.

pH: Maximum, 7.2 units Nov. 9, 10; minimum, 6.3 units Feb. 16-18.

WATER TEMPERATURE: Maximum, 33.5°C July 24, 25, Aug. 21-24; minimum, 5.0°C Jan. 21.

DISSOLVED OXYGEN: Maximum recorded, 11.8 mg/L Feb. 14; minimum, 1.0 mg/L Aug. 30.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
20...	1430	1340	110	106	6.8	7.2	20.5	23.5	6.7	75
NOV										
09...	1445	1040	140	137	7.0	7.4	14.0	14.0	7.8	76
DEC										
15...	1600	--	72	73	6.6	6.9	11.0	15.5	9.6	88
JAN										
18...	1515	1540	93	93	6.6	7.0	7.5	5.0	10.2	36
FEB										
28...	1500	--	69	72	--	7.2	8.5	9.0	10.3	90
MAR										
30...	1510	--	53	56	--	7.0	12.5	16.0	9.6	91
APR										
26...	1450	--	68	68	6.7	7.0	16.0	24.0	8.3	85
MAY										
24...	1350	2460	83	85	6.7	7.0	23.5	25.0	6.6	79
JUN										
22...	1400	1930	93	91	6.8	7.3	25.0	25.0	5.9	72
JUL										
21...	1450	950	123	121	6.8	7.1	32.5	32.5	3.9	54
AUG										
17...	1650	772	152	154	7.0	7.4	29.5	30.0	3.1	41
SEP										
29...	1415	855	138	140	7.1	7.5	21.5	23.0	7.0	80

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINEITY LAB (MG/L AS CAC03)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT												
20...	50	15	15	1.1	23000	27	22	.580	.160	.60	.170	--
NOV												
09...	50	10	22	1.5	93000	35	12	.450	.340	.90	.190	--
DEC												
15...	--	40	16	1.3	7500	17	34	.450	.130	.70	.130	4.2
JAN												
13...	80	25	17	1.4	23000	24	8	.500	.260	.80	.150	6.0
FEB												
23...	120	30	12	1.3	430	16	9	.570	.080	.50	.110	2.9
MAR												
30...	140	45	15	1.3	--	13	35	.380	.070	.30	.130	4.2
APR												
26...	100	25	14	1.1	11000	17	14	.370	.110	.30	.130	4.5
MAY												
24...	40	15	15	--	3300	22	25	.590	.200	.50	.140	4.2
JUN												
22...	20	15	10	1.5	110000	24	24	.360	.190	.60	.140	3.4
JUL												
21...	25	10	21	1.7	33000	30	8	.380	.240	.30	.310	6.1
AUG												
17...	40	8	32	1.3	3300	41	9	.570	.350	.60	.220	14
SEP												
29...	10	7	23	3.4	49000	35	20	.500	.050	1.1	.270	9.3

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		
1	145	133	147	134	92	83	75	70	84	80	71	68
2	149	132	147	129	93	88	76	73	82	74	72	64
3	147	141	148	132	92	90	75	65	74	64	67	65
4	144	135	137	124	93	91	66	61	70	67	70	67
5	146	142	136	119	93	88	69	52	70	63	73	71
6	149	139	120	109	89	85	70	67	---	---	73	52
7	139	118	122	109	86	81	67	64	---	---	57	47
8	155	134	132	123	83	81	68	65	---	---	67	56
9	153	146	142	113	83	82	69	67	71	67	55	60
10	152	144	126	113	85	83	70	65	71	63	62	59
11	146	136	137	124	87	81	70	68	76	70	62	60
12	136	112	157	137	81	74	69	66	78	73	66	62
13	112	97	160	116	74	68	69	66	74	71	69	65
14	95	77	117	108	71	68	78	67	72	66	70	66
15	98	84	125	116	73	70	88	73	66	51	73	69
16	106	98	128	103	73	71	87	76	58	52	72	69
17	107	104	109	103	72	70	96	87	67	59	73	70
18	105	99	126	103	72	70	99	91	68	65	74	70
19	116	101	117	109	74	71	90	73	72	66	73	69
20	110	98	115	106	75	72	83	76	---	---	71	68
21	103	94	111	104	81	73	93	78	---	---	69	66
22	115	95	116	105	80	75	97	85	---	---	70	61
23	126	116	124	113	84	75	85	74	65	62	65	61
24	122	108	121	112	81	74	74	68	65	61	68	64
25	122	115	119	108	87	75	72	68	69	64	69	68
26	130	104	121	108	84	74	77	72	---	---	68	65
27	117	103	131	121	84	77	82	78	---	---	66	61
28	130	117	121	112	84	77	84	80	70	68	51	56
29	128	108	116	103	80	72	84	81	---	---	58	56
30	113	105	100	83	78	71	84	80	---	---	57	56
31	136	106	---	---	72	70	83	31	---	---	59	56
MONTH	155	77	160	83	93	68	99	61	84	51	74	47
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		
1	59	57	76	74	---	---	103	94	149	139	177	149
2	58	56	75	73	---	---	103	92	144	117	144	114
3	60	57	77	75	101	93	103	96	126	114	143	133
4	60	58	78	76	101	91	108	99	131	121	140	132
5	61	58	80	77	104	91	108	97	142	131	140	118
6	64	60	81	77	94	89	108	100	144	134	121	113
7	68	64	81	77	98	83	118	100	143	119	123	111
8	71	67	80	77	93	82	123	115	128	115	123	118
9	68	57	79	77	92	84	118	106	142	128	123	118
10	58	47	83	79	87	83	119	106	142	138	138	120
11	52	49	---	---	91	85	124	118	142	134	146	126
12	54	52	---	---	110	86	127	111	156	131	147	140
13	54	51	---	---	113	89	112	100	173	156	149	120
14	58	53	---	---	96	93	123	107	165	156	139	122
15	62	55	---	---	120	96	129	120	161	152	134	125
16	71	61	---	---	126	116	127	120	162	151	149	124
17	67	61	82	79	115	99	129	115	155	151	164	150
18	63	59	84	80	126	99	132	125	150	143	162	138
19	62	59	---	---	125	113	130	126	159	140	150	143
20	62	59	---	---	113	104	---	---	168	149	151	138
21	63	59	---	---	108	96	129	123	169	156	142	118
22	70	64	---	---	97	93	127	113	173	155	118	110
23	70	63	---	---	104	94	142	110	174	161	110	105
24	71	68	83	79	91	83	143	127	171	155	113	108
25	70	66	---	---	96	86	149	133	180	158	120	114
26	71	67	---	---	104	97	151	119	177	154	---	---
27	74	71	89	85	113	103	132	117	166	154	---	---
28	74	72	95	93	110	102	152	134	163	155	---	---
29	76	74	91	88	113	102	150	130	159	142	153	130
30	77	75	90	87	99	90	140	122	180	156	149	132
31	---	---	91	87	---	---	149	137	180	170	---	---
MONTH	77	47	95	73	126	82	152	92	180	114	177	105
YEAR	130	47										

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	4.9	4.3	7.5	7.0	8.9	8.3	10.3	8.9	10.2	10.1	10.1	9.8
2	5.1	4.1	7.2	6.0	8.6	8.1	10.8	9.1	10.3	9.6	9.9	9.6
3	5.0	4.2	6.7	5.6	8.1	7.9	10.4	7.6	9.5	9.1	9.8	9.5
4	5.4	4.9	6.8	5.5	7.8	7.3	10.0	7.6	10.4	9.5	9.8	9.5
5	5.3	4.0	6.9	5.8	7.6	7.0	10.2	8.2	10.4	10.0	9.7	9.4
6	4.9	4.1	9.0	7.1	8.2	7.5	10.3	10.2	---	---	9.7	8.1
7	5.3	4.3	8.1	7.1	8.2	7.9	10.3	10.1	---	---	8.0	7.3
8	4.9	3.8	---	---	8.3	8.1	10.2	10.1	---	---	9.0	8.1
9	4.6	3.7	10.1	7.7	8.5	7.7	10.3	10.1	10.5	9.5	9.2	8.9
10	4.6	4.0	10.0	8.0	8.3	7.4	10.4	10.3	9.5	9.3	9.6	8.9
11	4.7	4.2	8.2	5.3	8.8	7.7	10.3	10.1	10.4	9.5	10.2	9.5
12	5.8	4.8	6.1	4.7	9.3	8.4	10.4	10.1	11.2	10.4	10.1	9.8
13	6.4	5.7	5.8	4.4	9.4	8.4	10.9	10.5	11.6	11.2	10.0	9.8
14	6.8	6.4	7.0	5.9	10.1	8.9	11.0	10.3	11.8	10.5	9.8	9.4
15	7.2	6.5	7.3	6.9	10.1	9.0	10.7	9.8	11.2	10.2	9.4	8.9
16	7.3	6.9	9.4	7.2	9.1	8.1	10.7	10.1	10.5	10.0	9.0	9.7
17	7.3	6.8	9.1	8.1	9.0	8.0	10.4	10.1	10.5	9.6	8.6	8.3
18	7.5	6.4	8.6	7.4	9.7	8.8	10.5	10.1	10.3	9.5	8.9	8.5
19	7.5	6.2	8.4	7.5	9.9	9.5	11.5	10.6	---	---	8.9	8.6
20	7.3	6.6	8.8	8.0	9.9	9.6	11.5	11.1	---	---	8.6	8.1
21	7.3	6.7	9.0	8.8	9.8	9.2	11.6	11.1	---	---	8.5	8.1
22	7.1	6.0	8.9	6.9	10.1	9.8	11.6	11.1	---	---	9.2	8.4
23	6.3	5.6	7.2	6.0	10.2	9.8	11.7	11.5	9.3	8.7	9.2	8.9
24	7.3	6.5	7.5	6.5	10.5	9.9	11.5	11.3	9.0	8.8	9.2	9.0
25	7.5	7.3	8.4	7.1	9.7	9.1	11.3	11.1	8.6	7.9	9.8	9.2
26	7.8	6.4	8.6	7.9	9.4	8.2	11.1	10.9	---	---	9.9	9.6
27	8.2	7.4	8.0	7.1	9.2	8.0	10.9	10.7	---	---	9.7	9.1
28	7.6	6.7	9.0	7.8	9.5	7.9	10.7	10.6	10.5	10.1	9.3	9.0
29	8.3	7.0	8.5	7.2	8.9	7.3	10.8	10.7	---	---	9.6	9.2
30	8.6	7.8	8.7	7.5	9.1	7.8	10.8	10.4	---	---	9.7	9.4
31	8.7	7.2	---	---	9.8	8.0	10.4	10.2	---	---	9.5	9.2
MONTH	8.7	3.7	10.1	4.4	10.5	7.0	11.7	7.6	11.8	7.9	10.2	7.3
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.6	9.3	7.6	7.2	---	---	5.6	4.6	---	---	1.8	1.4
2	9.5	8.7	7.9	7.0	---	---	5.9	5.1	---	---	3.4	1.6
3	8.9	8.6	7.8	7.1	6.1	5.6	5.6	4.7	---	---	3.5	2.9
4	9.3	9.0	7.9	7.5	6.2	5.0	5.3	4.7	4.2	3.4	3.4	2.9
5	9.3	9.1	7.7	7.4	5.7	4.6	5.2	4.6	3.8	2.8	4.1	3.0
6	9.0	8.4	7.9	7.1	5.8	5.4	5.2	4.7	3.1	2.2	4.3	3.7
7	8.4	8.0	8.0	7.3	6.2	5.3	5.5	4.3	3.2	2.3	4.2	3.4
8	8.1	7.7	7.8	7.1	6.2	5.7	4.5	3.7	3.9	3.5	4.0	3.4
9	8.0	6.8	8.2	7.0	6.8	6.2	4.9	4.3	3.6	2.9	4.4	3.9
10	7.5	6.8	7.8	7.2	6.7	6.4	4.8	3.9	3.5	2.6	4.5	3.5
11	7.8	7.6	---	---	6.7	6.2	4.4	3.8	3.2	2.4	4.1	3.1
12	7.8	7.6	---	---	6.5	5.3	4.4	3.2	3.2	2.3	3.3	2.4
13	8.0	7.8	---	---	6.5	6.0	4.6	3.5	2.7	1.8	4.3	2.5
14	7.9	7.2	---	---	6.6	5.9	4.0	2.8	2.9	2.3	4.3	3.6
15	7.9	7.5	---	---	6.3	4.5	3.0	2.4	3.5	2.9	5.1	4.0
16	8.3	7.6	---	---	4.8	3.9	3.1	2.1	3.8	2.8	5.2	3.8
17	8.8	8.4	7.0	6.6	5.5	4.6	3.3	2.9	3.4	2.7	4.1	3.1
18	9.0	8.8	7.0	6.8	6.1	4.1	3.7	3.3	3.4	2.8	4.4	3.8
19	9.4	9.1	---	---	6.3	3.8	3.9	3.7	3.3	2.6	4.4	3.9
20	9.5	9.1	---	---	5.3	4.6	---	---	3.1	2.1	4.4	3.5
21	9.3	9.2	---	---	6.0	4.9	3.9	3.0	2.7	1.8	4.6	3.1
22	9.3	8.8	---	---	6.3	5.7	4.2	3.2	2.3	1.8	5.6	4.7
23	9.5	8.6	---	---	6.3	5.4	3.6	2.4	2.1	1.3	6.2	5.7
24	8.9	8.5	6.6	6.3	6.8	6.2	3.7	2.6	1.9	1.5	6.4	6.1
25	9.4	8.0	---	---	6.7	5.9	3.4	2.5	1.6	1.2	6.4	6.1
26	8.3	7.9	---	---	5.8	5.0	3.5	2.4	1.9	1.2	---	---
27	7.9	7.4	7.6	7.3	4.9	3.9	3.9	2.5	1.6	1.2	---	---
28	7.7	7.6	7.9	7.0	4.6	4.2	2.6	1.9	2.1	1.2	---	---
29	7.6	7.5	7.4	7.1	4.5	3.5	2.5	2.0	1.8	1.2	6.9	6.0
30	7.7	7.1	7.7	6.4	5.6	4.5	2.8	2.4	1.4	1.0	7.3	6.0
31	---	---	6.7	6.0	---	---	---	---	1.7	1.2	---	---
MONTH	9.6	6.8	8.2	6.0	6.8	3.5	5.9	1.9	4.2	1.0	7.3	1.4
YEAR	11.8	1.0										

ALTAMAHA RIVER BASIN

02214265 OCMULGEE RIVER NEAR BONAIRE, GA.

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

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 18...	0950	3250	100	100	7.1	7.3	18.5	19.0	6.6	71
NOV 15...	1010	1730	102	101	7.2	7.3	14.0	15.5	8.2	80
DEC 14...	1440	7360	68	66	6.7	7.0	8.5	17.5	8.8	75
JAN 24...	1010	5480	70	68	6.7	6.9	5.5	7.0	9.6	77
FEB 22...	1015	6320	68	70	6.5	7.6	12.0	15.0	9.2	87
MAR 22...	1430	6740	65	63	6.9	7.0	12.5	15.0	8.7	83
APR 19...	1345	6220	62	59	6.9	6.8	14.0	15.5	8.5	84
MAY 24...	1330	2770	76	79	7.0	7.0	23.0	28.0	7.0	83
JUN 22...	1300	2090	88	97	6.8	7.3	25.0	27.5	6.3	77
JUL 18...	1220	1190	108	110	6.7	7.1	26.5	34.5	4.4	58
AUG 15...	1255	1020	137	137	7.1	7.4	28.5	35.5	4.6	60
SEP 27...	1255	1210	119	123	7.3	7.4	21.0	25.0	8.0	91

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CACO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 18...	60	15	1.2	2300	22	.51	.060	.130	--
NOV 15...	30	15	1.2	9300	29	.52	.170	.140	--
DEC 14...	140	50	1.9	1900	15	.26	.050	.100	5.5
JAN 24...	120	35	.8	7500	17	.32	.190	.100	7.5
FEB 22...	100	20	.8	90	16	.45	.050	.080	6.2
MAR 22...	140	35	1.3	2100	17	.36	.080	.090	4.3
APR 19...	120	30	.4	1300	16	.32	.080	.120	7.2
MAY 24...	38	20	--	130	20	.54	.080	.160	3.4
JUN 22...	10	15	1.6	13000	22	.40	.100	.150	2.7
JUL 18...	30	15	1.2	790	29	.72	.280	.280	5.6
AUG 15...	45	8	1.7	490	34	.81	.220	.220	6.0
SEP 27...	10	10	2.2	790	29	.46	.060	.780	10

ALTAMAHA RIVER BASIN

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02215500 OCMULGEE RIVER AT LUMBER CITY, GA.

LOCATION.--Lat 31°55'06", long 82°40'26", Telfair-Jeff Davis County line, Hydrologic Unit 03070104, near left bank on downstream end of pier of bridge on U.S. Highway 341 at Lumber City, 500 ft downstream from Southern Railway bridge, 1 mi upstream from Little Ocmulgee River, and 12 mi upstream from confluence with Oconee River.

DRAINAGE AREA.--5,180 mi², 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, National Geodetic Vertical Datum of 1929. Prior to Nov. 8, 1937, non-recording gage at same site and datum.

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

AVERAGE DISCHARGE.--47 years, 5,600 ft³/s, 14.68 in/yr.

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 15,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 16	2100	20300	14.11	Apr. 7	2300	18400	13.58
Mar. 9	1400	22000	14.53	Apr. 19	2300	*30100	16.17
Mar. 19	0300	20900	14.25				

Minimum discharge, 1,390 ft³/s Oct. 9, 10, gage height, 0.69 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1510	1730	2130	6350	8160	12200	13900	8250	3380	3510	1840	1590
2	1480	1690	2290	7220	8300	11800	14300	7890	3240	3200	1830	1590
3	1460	1800	2440	8680	8960	11800	14600	7650	3160	3170	1810	1610
4	1450	1870	2210	9830	9060	12000	15000	7490	3100	3340	1850	1620
5	1440	1800	3150	10600	6890	12100	15900	7280	3080	3570	1970	1760
6	1420	1740	3440	10900	8660	12900	17100	6980	3100	3750	2140	2140
7	1410	1780	3690	10500	8730	14800	18100	6660	3080	3590	2310	2530
8	1410	1990	3860	10600	8950	18600	18300	6400	3050	3310	2390	2570
9	1400	2180	4040	10500	9140	21700	17700	6190	3090	3060	2340	2400
10	1400	2390	4230	10500	9280	20900	16700	6040	3180	2900	2250	2310
11	1580	2430	4430	10500	9590	18600	15500	5870	3330	2740	2250	2250
12	1580	2200	4940	10700	10200	16500	14100	5640	3600	2570	2310	2200
13	1500	2060	5590	11100	11300	15300	12900	5400	3850	2490	2310	2300
14	1480	2050	5790	11500	14800	14900	12200	5140	4000	2410	2210	2280
15	1540	1950	5860	11700	18200	15100	12700	4890	3980	2290	2090	2190
16	1740	1360	6100	11600	20000	16100	15200	4600	3750	2270	1990	2090
17	2120	1890	6460	11000	20100	18000	18800	4210	3410	2270	1910	2100
18	2540	2130	6780	9960	19300	20100	24400	3970	3190	2250	1850	2210
19	2820	2360	7070	8920	18500	20800	29100	3850	2960	2150	1800	2230
20	3010	2460	7280	7970	18300	19600	29400	3910	2750	2100	1750	2160
21	3140	2520	7500	7350	18300	17600	26200	4000	2700	2070	1720	2040
22	3110	2540	7880	7090	18200	15700	22000	4090	2650	2030	1690	1980
23	2780	2670	8390	6750	18800	14300	18900	4120	2540	1990	1670	1910
24	2470	2860	8840	6740	19500	13200	17100	4180	2540	1970	1640	1900
25	2370	2980	9040	6920	19200	12500	14700	4150	2700	1970	1620	2000
26	2200	2940	8840	7170	18000	11900	12500	4100	2960	1950	1610	2260
27	1980	2700	8200	7490	16000	11800	10900	4020	3230	1890	1570	2560
28	1870	2540	7250	8090	13600	12400	9840	3930	3470	1840	1540	2730
29	1790	2500	6390	8450	---	12900	9190	3340	3720	1800	1540	2650
30	1770	2470	6000	8480	---	13300	8690	3730	3820	1800	1560	2350
31	1820	---	6110	8360	---	13600	---	3570	---	1870	1580	---
TOTAL	59590	67080	177020	283820	390020	473000	495920	162040	96610	78120	58940	64510
MEAN	1922	2236	5710	9155	13930	15260	16530	5227	3220	2520	1901	2150
MAX	3140	2980	9040	11700	20100	21700	29400	8250	4000	3750	2390	2730
MIN	1400	1690	2290	6350	8160	11800	8690	3570	2540	1800	1540	1590
CFSM	.37	.43	1.10	1.77	2.69	2.95	3.19	1.01	.62	.49	.37	.42
IN.	.43	.48	1.27	2.04	2.80	3.40	3.56	1.16	.69	.56	.42	.46
CAL YR 1982	TOTAL	1932670	MEAN	5295	MAX	24200	MIN	1400	CFSM	1.02	IN	13.88
WTR YR 1983	TOTAL	2406670	MEAN	6594	MAX	29400	MIN	1400	CFSM	1.27	IN	17.28

ALTAMAHA RIVER BASIN

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

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 05...	1055	1440	--	145	7.3	7.7	23.0	25.0	7.0	81
NOV 17...	1015	1870	124	130	--	7.9	14.0	21.0	9.2	89
DEC 09...	1350	4050	96	93	7.3	7.2	12.0	19.0	8.4	77
JAN 13...	1215	11100	56	60	6.8	6.5	8.5	9.0	11.2	95
FEB 10...	0955	9250	--	65	7.0	7.0	8.0	10.5	9.7	81
MAR 15...	0630	15000	--	57	--	6.9	13.0	14.0	7.2	68
APR 06...	1110	17100	57	59	7.0	6.8	16.0	29.0	7.8	79
MAY 18...	0545	3890	105	110	--	7.2	22.0	19.0	--	--
JUN 08...	1240	3050	103	106	7.5	7.6	25.0	25.0	7.3	89
JUL 07...	1025	3630	93	99	7.5	7.1	26.5	29.0	5.7	73
AUG 10...	1150	2250	122	127	7.8	7.6	30.0	36.0	6.5	86
SEP 07...	0945	2530	142	143	7.6	7.8	28.0	28.0	6.3	80

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CAO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 05...	30	7	--	8.7	<20	52	7	.62	.100	--	.070	2.0
NOV 17...	10	6	--	1.3	40	43	8	.43	.060	--	.070	--
DEC 09...	80	24	--	.6	70	24	30	.52	.080	--	.130	6.7
JAN 13...	140	32	--	2.0	90	12	11	.26	.050	--	.080	7.7
FEB 10...	160	27	--	1.4	90	18	4	.26	.030	--	.090	4.7
MAR 15...	160	30	--	1.3	70	17	<1	.09	.030	--	.070	10
APR 06...	120	19	--	1.5	<30	16	3	.21	.070	--	.050	5.9
MAY 18...	40	13	--	.8	80	36	17	.48	.040	--	.080	4.0
JUN 08...	10	17	--	.4	80	33	16	.70	.100	--	.080	3.2
JUL 07...	--	17	8	1.0	80	31	20	.56	.040	.50	.080	3.6
AUG 10...	30	14	11	.7	20	34	21	.47	.060	.80	.100	3.5
SEP 07...	40	18	10	.9	130	40	29	.65	.030	.30	.150	4.9

02216180 TURNPIKE CREEK NEAR MCRAE, GA.

LOCATION.--Lat 31°59'29", long 82°55'19", Telfair County, Hydrologic Unit 03070105, on downstream side of bridge on U.S. Highways 319 and 441, 4.8 miles south of McRae.

DRAINAGE AREA.--49.2 mi².

PERIOD OF RECORD.--January to September 1983.

GAGE.--Water-stage recorder. Datum of gage is 173.17 ft, National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation).

REMARKS.--Records good except those below 10 ft³/s and those of Jan. 1 to Feb. 6, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, not determined, March 7, 1983, gage height, 10.51 ft; no flow at times most years.

EXTREMES FOR JANUARY 1, 1983 to SEPTEMBER 30, 1983.--Peak discharges above base of 600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 14	1415	905	8.69	Mar. 18	0400	620	8.10
Mar. 7	0900	unknown	*10.51				

Minimum discharge, no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				180	110	217	216	34	.02	.25	.00	.00
2				280	150	212	195	31	.00	5.7	.00	.00
3				240	190	179	146	29	.00	3.7	1.5	.00
4				190	170	130	106	46	.00	1.6	2.2	.00
5				170	150	100	35	50	.00	1.9	.55	.00
6				150	140	420	76	42	.00	23	.11	.00
7				130	154	1800	73	29	3.6	9.7	.04	.00
8				120	126	648	76	20	19	4.3	.02	.00
9				100	105	340	170	16	38	2.0	.00	.00
10				90	89	241	324	13	28	.90	.00	.00
11				78	90	188	236	11	13	.28	.00	.00
12				70	75	146	182	8.5	5.1	.10	.00	.00
13				62	94	123	111	6.4	2.7	.04	.00	.00
14				52	686	109	80	5.1	1.5	.03	.00	.00
15				48	708	100	178	4.6	.76	.04	.00	.00
16				42	455	162	211	11	.29	.02	.00	.00
17				36	293	451	194	43	.11	.00	.00	.00
18				32	247	558	139	27	.03	.00	.00	.00
19				30	186	373	120	15	.01	.00	.00	.00
20				58	151	236	102	10	.00	.00	.00	.04
21				100	122	204	83	7.9	.00	.00	.00	.41
22				150	122	184	65	5.9	.01	.00	.00	3.3
23				240	272	158	153	4.5	.02	.00	.00	2.8
24				210	261	144	273	3.7	.02	.00	.00	1.3
25				170	250	182	219	3.6	.01	.00	.00	.54
26				150	176	162	145	3.5	.00	.00	.00	.17
27				130	128	250	84	1.9	.00	.00	.00	.05
28				160	121	362	58	.40	.00	.00	.00	.02
29				180	---	296	47	.19	.00	.00	.00	.01
30				150	---	183	40	.08	.02	.00	.00	.00
31				130	---	177	---	.04	---	.00	.00	---
TOTAL				3928	5821	9035	4187	483.31	112.20	53.56	4.42	8.64
MEAN				127	208	291	140	15.6	3.74	1.73	.14	.29
MAX				280	708	1800	324	50	38	23	2.2	3.3
MIN				30	75	100	40	.04	.00	.00	.00	.00
CFSM				2.58	4.23	5.91	2.84	.32	.08	.04	.003	.006
IN.				2.97	4.40	6.83	3.16	.37	.08	.04	.00	.01

02216610 TILLMAN MILL CREEK NEAR LUMBER CITY, GA.

DRAINAGE AREA.--2.71 mi².

PERIOD OF RECORD.--Annual maximum, water years 1966-74, October 1974 to current year. Records for the 1975 water year are unreliable and should not be used. Prior to October 1975, published as Ocmulgee River Tributary near Lumber City.

GAGE.--Water-stage recorder. Altitude of gage is 168 ft, from topographic map. August 27, 1965, to September 30, 1974, crest-stage gage at same site and at datum 2.00 ft lower.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--8 years (1976-83), 2.18 ft³/s, 10.92 in/yr.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 100 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 14	0500	*131	4.45

Minimum discharge, no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.04	.64	7.6	4.2	17	5.0	1.2	.00	3.0	.04	.00
2	.00	.13	.55	18	23	6.6	3.9	1.1	.00	.73	6.4	.00
3	.00	.16	.46	7.6	6.9	5.1	2.9	1.2	.00	.14	.69	.00
4	.00	2.7	.42	4.2	4.8	4.4	2.3	3.6	.00	.03	.34	.00
5	.03	.98	.65	3.6	4.3	4.6	2.1	1.4	.00	6.1	.10	.00
6	.07	.36	1.3	3.3	11	35	2.0	.95	.00	7.1	.00	.00
7	.02	.24	.77	3.1	6.4	31	2.0	.64	.69	1.0	.00	.00
8	.00	.19	.53	3.1	5.0	11	2.4	.60	1.8	.42	.00	.00
9	.00	.17	.45	3.4	4.4	7.0	9.7	.64	.42	.10	.00	.00
10	.00	.14	.42	3.4	4.4	5.9	4.8	.50	.07	.03	.00	.00
11	.13	.14	2.2	2.6	4.4	5.1	2.4	.42	.01	.00	.00	.00
12	.29	.16	11	2.3	3.6	4.5	2.0	.35	.00	.00	.00	.00
13	.34	.50	1.5	2.0	17	4.3	1.9	.33	.00	.00	.00	.00
14	.41	.39	.92	2.0	73	3.8	2.0	.22	.00	.00	.00	.00
15	.27	.30	.82	1.9	12	3.9	23	.20	.00	.00	.00	.00
16	.13	.26	1.8	1.7	7.6	14	6.4	2.8	.00	.00	.00	.00
17	.00	.26	1.1	1.7	11	43	3.6	1.2	.00	.00	.00	.00
18	.00	1.0	.90	1.4	6.7	17	4.6	.56	.00	.00	.00	.00
19	.00	1.3	.86	1.2	5.4	8.2	5.0	.43	.00	.90	.00	.00
20	.00	.70	.87	1.7	4.9	6.4	3.0	.46	.00	.00	.00	.00
21	.00	.55	.77	15	4.4	8.8	2.4	.34	.00	.00	.00	.00
22	.02	.45	.64	6.5	9.2	5.0	1.8	.22	.55	.00	.00	.00
23	.13	.39	.65	5.4	15	4.3	28	.22	.86	.00	.00	.00
24	.20	.38	.68	3.8	6.5	9.5	9.4	.18	.22	.00	.00	.00
25	.08	.37	.68	3.1	6.1	7.0	5.4	.10	.03	.00	.00	.00
26	.01	.43	.64	3.0	4.5	4.4	3.5	.03	.00	.00	.00	.00
27	.00	.51	.63	8.5	4.2	25	2.4	.00	1.8	.00	.00	.00
28	.00	.51	.71	9.0	10	8.2	1.8	.00	3.8	.00	.00	.00
29	.00	.87	5.0	4.7	---	4.9	1.5	.00	.78	.00	.00	.00
30	.00	.85	7.2	8.0	---	4.2	1.4	.00	4.0	.00	.00	.00
31	.00	---	5.3	5.3	---	9.2	---	.00	---	.00	.00	---
TOTAL	2.13	15.43	51.06	148.1	279.9	328.3	148.6	19.89	15.03	18.65	7.57	.00
MEAN	.069	.51	1.65	4.78	10.0	10.6	4.95	.64	.50	.60	.24	.000
MAX	.41	2.7	11	18	73	43	28	3.6	4.0	7.1	6.4	.00
MIN	.00	.04	.42	1.2	3.6	3.8	1.4	.00	.00	.00	.00	.00
CFSM	.03	.19	.61	1.76	3.69	3.91	1.83	.24	.19	.22	.09	.000
IN.	.03	.21	.70	2.03	3.84	4.50	2.04	.27	.21	.26	.10	.00
CAL YR 1982	TOTAL	801.10	MEAN	2.19	MAX	38	MIN	.00	CFSM	.81	IN	10.99
WTR YR 1983	TOTAL	1034.66	MEAN	2.83	MAX	73	MIN	.00	CFSM	1.04	IN	14.20

ALTAMAHA RIVER BASIN

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02217500 MIDDLE OCONEE RIVER NEAR ATHENS, GA.

LOCATION.--Lat 33°56'58", long 83°25'43", Clarke County, Hydrologic Unit 03070101, on left bank 0.5 mi upstream from U.S. Highway 78 and U.S. Highway 29 Bus., 2 mi west of Athens, and 5 mi upstream from Barber Creek.

DRAINAGE AREA.--398 mi².

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, National Geodetic Vertical Datum of 1929. Oct. 11, 1901, to Oct. 25, 1902, nonrecording gage at site 1 mi 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 downstream at different datum.

REMARKS.--Records good except those of no gage-height record, Jan. 6-8, Mar. 29-30, Apr. 10-20, Apr. 24 to May 9, July 30 to Aug. 5, and Aug. 12 to Sept. 1, which are poor. Records of chemical analyses for the water years 1968-74 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--49 years, 526 ft³/s, 17.95 in/yr.

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

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 3	2230	5030	11.88	Apr. 10	0130	*5890	13.08
Mar. 28	1800	3990	9.98				

Minimum daily discharge, 105 ft³/s Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1932 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	145	214	1540	463	466	688	1110	630	387	363	196	115
2	143	218	1860	1170	1480	664	998	620	382	581	250	225
3	139	222	1040	2160	3900	606	1220	680	361	386	240	510
4	136	313	701	1580	2950	578	1070	660	378	328	190	470
5	135	355	750	942	1160	569	926	610	364	348	196	470
6	133	270	1470	753	1100	1730	942	530	323	328	187	436
7	142	239	1140	667	1350	2440	971	560	421	328	194	383
8	166	231	725	628	1100	1230	2140	540	444	289	182	277
9	233	225	623	571	899	925	4620	520	440	268	180	229
10	231	225	535	545	796	778	4490	495	426	260	173	214
11	456	222	598	543	782	703	1640	475	330	246	150	203
12	688	244	2000	522	725	655	1400	463	352	236	145	136
13	601	320	2200	496	654	618	1200	450	331	225	140	190
14	1690	365	1130	476	711	589	1100	460	317	213	135	329
15	1420	284	809	469	823	571	1000	452	307	210	130	340
16	595	256	854	456	696	557	960	523	295	203	125	260
17	431	248	805	434	657	568	900	686	291	196	120	229
18	372	283	671	431	609	600	864	493	298	193	118	212
19	322	419	617	423	571	560	819	485	366	200	115	198
20	291	431	633	415	542	558	792	904	519	190	110	212
21	289	377	567	423	524	1190	780	777	430	186	110	351
22	293	369	522	487	609	1150	760	585	333	183	115	421
23	262	363	495	619	2360	771	740	513	424	173	110	294
24	246	329	474	670	1850	774	850	464	446	163	105	240
25	238	304	460	628	996	1180	800	432	383	163	140	225
26	233	289	449	567	792	1220	740	418	333	167	135	200
27	227	281	438	532	698	3140	700	408	308	170	125	186
28	221	292	435	539	657	3740	660	398	318	163	135	183
29	218	769	597	552	---	1850	650	394	343	154	130	176
30	215	966	546	525	---	1140	640	400	359	150	125	176
31	214	---	487	483	---	1100	---	398	---	145	120	---
TOTAL	11125	9938	26151	20169	30457	33442	36482	16473	11172	7915	4626	8140
MEAN	359	331	844	651	1088	1079	1216	531	372	255	149	271
MAX	1690	966	2200	2160	3900	3740	4620	904	519	863	250	510
MIN	133	214	435	415	466	557	640	394	291	145	105	115
CFSM	.90	.83	2.12	1.64	2.73	2.71	3.06	1.33	.94	.64	.37	.68
IN.	1.04	.93	2.44	1.89	2.85	3.13	3.41	1.54	1.04	.74	.43	.76

CAL YR 1982	TOTAL	192178	MEAN 527	MAX 7550	MIN 133	CFSM 1.32	IN 17.96
WTR YR 1983	TOTAL	216090	MEAN 592	MAX 4620	MIN 105	CFSM 1.49	IN 20.20

ALTAMAHA RIVER BASIN

02217740 NORTH OCONEE RIVER ABOVE ATHENS, GA.

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

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
13...	1030	850	--	49	6.7	6.4	18.0	--	6.5	70
NOV										
09...	0745	192	65	60	7.2	7.3	7.0	4.5	9.8	81
DEC										
15...	1030	1200	45	48	6.8	6.9	7.0	10.5	9.0	75
JAN										
12...	1000	350	54	51	7.2	7.2	7.5	3.0	10.3	88
FEB										
09...	0745	1100	50	47	7.1	6.9	4.5	-5.5	12.7	101
MAR										
08...	1800	1650	48	46	6.9	6.8	17.0	22.0	8.2	88
APR										
12...	1715	1300	45	45	7.0	6.9	16.0	23.0	8.9	92
MAY										
12...	0630	340	56	59	--	7.3	19.0	14.5	8.1	83
JUN										
15...	1015	202	55	58	7.1	7.1	20.5	29.0	7.6	36
JUL										
13...	1530	152	59	63	7.2	7.3	25.5	34.5	6.8	85
AUG										
09...	0645	112	62	71	7.3	7.4	24.5	22.5	7.0	87
SEP										
14...	0645	212	55	64	7.2	7.4	22.5	20.5	7.1	84

DATE	TUR- BIO- IDITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, CON- FIRMED (MPN)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINEITY LAB (MG/L AS CAC03)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
13...	64	1.8	23000	2300	14	--	.31	.050	.090	--
NOV										
09...	11	.9	2300	40	23	--	.20	.040	.020	--
DEC										
15...	56	.7	39000	1200	13	--	.48	.070	.070	2.4
JAN										
12...	19	1.2	2300	210	18	--	.40	.040	.020	2.1
FEB										
09...	25	.8	5400	680	15	--	.47	.050	.050	.9
MAR										
08...	48	.5	7500	3900	13	--	.35	.040	.060	3.4
APR										
12...	28	1.3	790	220	15	--	.31	.020	.040	4.7
MAY										
12...	16	1.3	3300	230	20	--	.30	.080	<.020	1.9
JUN										
15...	21	1.0	33000	1300	22	--	.40	<.020	.040	2.8
JUL										
13...	18	1.6	--	490	24	21	.38	.160	.030	5.3
AUG										
09...	15	1.3	--	400	25	9	.36	.070	.040	2.4
SEP										
14...	28	.6	--	1700	24	34	.43	.060	.020	3.1

02218000 OCONEE RIVER NEAR WATKINSVILLE, GA.

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

DRAINAGE AREA.--783 mi².

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Water-discharge records for water years 1901-02 are published in records of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANECUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 13...	0815	1300	61	58	7.0	7.0	18.0	20.5	7.8	84
NOV 08...	1415	540	74	70	7.3	7.2	10.5	23.0	8.6	77
DEC 15...	0915	2300	51	52	7.0	7.1	11.5	9.0	6.8	63
JAN 12...	0845	1000	64	60	7.1	7.1	7.5	2.0	10.2	87
FEB 03...	1545	3400	64	51	7.1	7.0	6.0	14.0	11.6	95
MAR 03...	1715	3200	50	47	7.0	6.9	10.0	25.0	9.3	98
APR 12...	1620	3220	47	47	7.0	6.9	15.5	23.0	9.7	99
MAY 11...	1430	870	61	64	--	7.2	21.0	30.0	8.6	97
JUN 15...	0900	550	65	63	7.1	7.0	21.0	24.0	8.3	95
JUL 13...	1430	430	70	75	7.1	7.2	27.5	34.5	6.8	88
AUG 08...	1600	360	74	77	7.2	7.4	27.0	29.0	7.3	94
SEP 13...	1515	345	83	84	7.2	7.5	25.0	26.5	6.6	81

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CAC03)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 13...	72	23	3.3	33000	13	82	.61	.180	1.10	.240	--
NOV 08...	11	8	.6	90	22	<1	.66	.070	.30	.120	--
DEC 15...	58	9	1.0	930	13	27	.70	.130	.50	.100	4.6
JAN 12...	18	6	1.6	430	16	20	.72	.270	.50	.120	3.6
FEB 03...	64	9	1.4	430	13	24	.62	.180	.50	.100	1.6
MAR 08...	66	9	1.3	9300	12	57	.45	.080	.90	.140	4.2
APR 12...	36	14	1.6	2300	12	41	.46	.090	.30	.070	3.8
MAY 11...	17	9	1.9	790	18	16	.63	.100	.30	.080	3.0
JUN 15...	17	12	1.6	230	18	19	1.0	.100	.40	.140	3.3
JUL 13...	15	--	1.4	490	20	20	1.2	.120	--	.140	3.6
AUG 08...	17	--	.9	2300	18	12	1.1	.040	--	.180	3.1
SEP 13...	13	--	1.2	--	20	17	1.2	.130	--	.150	3.3

02218300 OCONEE RIVER NEAR PENFIELD, GA.

LOCATION.--Lat 33°43'16", long 83°17'44", Greene County, Hydrologic Unit 03070101, on downstream side of bridge on State Highway 15, 7.0 mi upstream from Greenbrier Creek, 8.0 mi northwest of Penfield, and 10.0 mi southeast of Watkinsville.

DRAINAGE AREA.--940 mi².

PERIOD OF RECORD.--Water years 1970-77 (annual maximum), August 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is 433.26 ft, National Geodetic Vertical Datum of 1929. Nov. 4, 1969 to July 21, 1977, crest-stage gage at same site and datum.

REMARKS.--Records good. Some regulation at low flow from manipulation of Barnett Shoals Dam.

AVERAGE DISCHARGE.--6 years, 1,288 ft³/s, 18.61 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,700 ft³/s Mar. 16, 1976, gage height, 22.11 ft; minimum daily discharge, 101 ft³/s Oct. 8, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 6, 1936, reached a stage of 26.7 ft, discharge, 41,500 ft³/s, from rating curve extended above 21,000 ft³/s on basis of computation of flow over Barnett Shoals Dam located 10 mi upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 4	2100	7590	14.83	Mar. 28	0800	9360	16.20
Feb. 24	2000	5070	12.64	Apr. 9	0700	*14000	19.24
Mar. 8	0500	4830	12.38				

Minimum daily discharge, 231 ft³/s Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	397	516	2990	1060	1160	1650	2760	1290	866	1040	380	250
2	387	519	3230	1830	2520	1610	2460	1260	854	1280	703	352
3	354	528	2880	4050	4530	1480	2430	1240	815	867	491	1320
4	303	758	1890	4110	6750	1380	2440	1320	802	753	505	1350
5	294	864	1540	2590	5120	1350	2100	1280	799	726	433	1080
6	292	767	2420	1850	2490	3040	2120	1200	807	736	435	886
7	288	650	2640	1580	2960	4380	2210	1150	960	719	442	911
8	350	598	2010	1430	2650	4270	5540	1150	1100	651	452	687
9	490	591	1480	1320	2160	2450	13500	1220	1350	600	427	542
10	489	566	1260	1260	1840	1940	11700	1140	1090	571	405	468
11	900	556	1270	1230	1790	1690	8850	1090	929	548	366	434
12	1350	570	3600	1190	1680	1560	4410	1050	808	525	334	408
13	1820	909	4400	1130	1530	1470	2810	1030	751	505	314	393
14	2500	865	3990	1080	2410	1410	2390	1050	710	494	281	467
15	3040	775	2370	1060	2630	1370	2190	1040	676	469	283	703
16	2020	670	2080	1030	1990	1340	2020	1200	655	456	277	594
17	1110	638	1980	1000	1720	1360	1850	1390	630	442	264	493
18	866	670	1670	985	1570	1410	1760	1300	629	451	261	450
19	773	886	1440	966	1450	1370	1750	1130	674	440	251	431
20	719	1050	1410	943	1370	1310	1680	1400	676	432	244	663
21	698	952	1350	998	1310	2180	1580	1840	1040	421	235	907
22	716	859	1200	1210	1440	2570	1530	1530	555	400	258	875
23	696	849	1100	1520	3630	2040	1520	1300	1110	377	234	767
24	621	808	1050	1640	4810	1870	1630	1150	1220	357	231	591
25	569	749	1030	1560	3940	2590	1590	1040	957	398	393	508
26	559	705	1010	1380	2240	3260	1470	984	798	388	280	480
27	559	681	994	1270	1790	6280	1390	946	719	380	263	456
28	538	684	985	1380	1610	9030	1350	908	804	365	298	437
29	523	1330	1120	1350	---	8550	1330	882	767	337	330	422
30	516	1950	1260	1260	---	5460	1310	889	811	320	296	420
31	512	---	1140	1200	---	3070	---	905	---	314	269	---
TOTAL	25249	23513	58789	46462	71090	84740	91690	36304	25864	16762	10635	18745
MEAN	814	784	1896	1499	2539	2734	3056	1171	862	541	343	625
MAX	3040	1950	4400	4110	6750	9030	13500	1840	1350	1280	703	1350
MIN	288	516	985	943	1160	1310	1310	862	629	314	231	250
CFSM	.87	.83	2.02	1.60	2.70	2.91	3.25	1.25	.92	.58	.37	.67
IN.	1.00	.93	2.33	1.84	2.81	3.35	3.63	1.44	1.02	.66	.42	.74

CAL YR 1982	TOTAL	474861	MEAN	1301	MAX	13200	MIN	238	CFSM	1.38	IN	18.79
WTR YR 1983	TOTAL	509843	MEAN	1397	MAX	13500	MIN	231	CFSM	1.49	IN	20.18

ALTAMAHA RIVER BASIN

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02218500 OCONEE RIVER NEAR GREENSBORO, GA.

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

DRAINAGE AREA.--1,090 mi², approximately.

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 Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Water-discharge records for water years 1903-32, 1936-78 are published in records of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPECIFIC CONDUCTANCE (UMHOS)	SPECIFIC CONDUCTANCE LAB (UMHOS)	pH (STANDARD ARD UNITS)	pH LAB (STANDARD ARD UNITS)	TEMPERATURE (DEG C)	TEMPERATURE AIR (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
DEC 14...	1745	51	25	--	6.9	10.0	11.0	8.0	71
MAR 08...	1530	46	46	6.9	6.8	16.0	26.5	8.4	88
JUN 14...	1300	58	64	8.7	8.0	26.5	29.0	10.3	131
SEP 13...	1400	75	73	7.4	7.5	22.0	27.0	6.0	77

DATE	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY LAB (MG/L AS CaCO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
DEC 14...	50	2.1	15000	14	.55	.100	.130	5.8
MAR 08...	90	1.3	2300	12	.51	.090	.150	5.2
JUN 14...	13	3.9	170	19	.42	<.020	.070	3.5
SEP 13...	10	2.4	--	21	.26	.140	.060	5.0

02219000 APALACHEE RIVER NEAR BOSTWICK, GA.

LOCATION.--Lat 33°47'17", long 83°28'27", Morgan-Oconee County line, Hydrologic Unit 03070101, on left bank 1,000 ft upstream from bridge on Price Mill Road, 3.0 mi southwest of Bishop, 4.0 mi upstream from Jacks Creek, and 4.0 mi northeast of Bostwick.

DRAINAGE AREA.--176 mi².

PERIOD OF RECORD.--June 1944 to December 1949, April 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 535 ft, from topographic map.

REMARKS.--Records good. Some regulation at low flow from manipulation of High Shoals Dam.

AVERAGE DISCHARGE.--11 years (water years 1945-49, 1978-83), 257 ft³/s, 19.83 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,500 ft³/s Jan. 6, 1946, gage height, 8.9 ft; minimum daily discharge, 14 ft³/s Sept. 29 to Oct. 1, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 28	0400	2720	4.84	Apr. 8	1700	*4740	5.97

Minimum daily discharge, 33 ft³/s Aug. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	151	729	221	246	316	467	234	157	140	51	52
2	74	153	608	532	839	302	411	223	156	139	66	80
3	73	157	406	922	1300	269	386	228	150	129	79	151
4	72	214	314	734	927	253	357	244	146	127	75	203
5	71	230	427	483	468	247	320	235	158	150	81	195
6	69	187	699	400	515	760	365	220	190	138	90	206
7	71	170	543	358	656	978	351	212	203	123	74	215
8	92	164	376	334	510	571	2130	210	209	111	79	121
9	132	162	309	312	408	339	3720	213	194	103	74	98
10	128	159	267	235	348	326	2470	203	173	98	70	86
11	143	146	302	274	332	292	864	195	155	93	63	78
12	149	130	1030	264	313	275	536	191	145	39	58	72
13	253	194	552	251	288	263	468	190	137	88	54	70
14	469	176	515	243	397	255	406	205	130	85	50	95
15	307	150	382	239	441	247	385	205	124	81	48	116
16	194	137	473	233	360	243	364	234	119	78	46	94
17	148	133	404	229	325	250	336	268	117	76	45	81
18	128	150	328	219	294	260	329	231	116	73	45	76
19	116	211	286	215	266	249	335	218	120	74	43	72
20	111	211	279	206	252	248	319	262	157	70	42	122
21	109	177	259	224	240	588	302	261	188	67	40	207
22	118	171	240	272	296	522	289	231	155	65	37	216
23	117	170	230	321	994	364	286	221	208	61	35	188
24	107	158	224	339	759	392	307	200	196	58	33	168
25	103	147	220	312	431	639	298	183	164	57	45	161
26	100	141	216	279	343	805	274	174	144	62	108	158
27	97	136	212	266	300	2330	261	167	132	64	105	154
28	110	141	213	296	283	2220	252	161	158	59	68	150
29	132	477	241	281	---	780	241	157	137	55	58	148
30	132	604	251	263	---	479	237	170	145	56	51	125
31	137	---	231	253	---	497	---	164	---	61	43	---
TOTAL	4136	5707	12066	10060	13131	16609	18116	6515	4683	2735	1861	3948
MEAN	133	190	389	325	469	536	604	210	156	88.2	60.0	132
MAX	469	604	1030	922	1300	2330	3720	268	209	150	108	216
MIN	69	130	212	206	240	243	237	157	116	55	33	52
CFSM	.76	1.08	2.21	1.85	2.67	3.05	3.43	1.19	.39	.50	.34	.75
IN.	.87	1.21	2.55	2.13	2.78	3.51	3.83	1.38	.99	.58	.39	.83
CAL YR 1982	TOTAL	90090	MEAN 247	MAX 3320	MIN 69	CFSM 1.40	IN 19.04					
WTR YR 1983	TOTAL	99567	MEAN 273	MAX 3720	MIN 33	CFSM 1.55	IN 21.04					

02220550 WHITTEN CREEK NEAR SPARTA, GA.

LOCATION.--Lat 33°23'13", long 83°01'29", Hancock County, Hydrologic Unit 03070101, in right bank 100 ft upstream from bridge on State Highway 15, 5 mi upstream from mouth, and 8.5 mi northwest of Sparta.

DRAINAGE AREA.--15 mi², approximately.

PERIOD OF RECORD.--June 1960 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 395 ft, from topographic map. Prior to Aug. 17, 1963, water-stage recorder at site 100 ft downstream at same datum.

REMARKS.--Records fair, except those of no gage-height record, Jan. 8-26, Mar. 6-10, and June 1 to July 13, which are poor.

AVERAGE DISCHARGE.--23 years, 15.6 ft³/s, 14.12 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,770 ft³/s Feb. 24, 1961, gage height, 16.0 ft, at former site; minimum daily discharge, no flow Oct. 1-9, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft ³ /s)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 14	1245	928	10.91	Apr. 8	1800	1200	11.85
Mar. 6	0845	*1660	13.14				

Minimum daily discharge, 0.05 ft³/s Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	.93	7.4	13	10	11	17	8.0	3.1	3.5	1.1	.88
2	.08	.93	2.9	103	48	11	15	7.3	3.0	2.9	1.5	1.0
3	.07	.95	2.2	56	28	9.2	13	6.9	2.9	2.5	1.1	2.5
4	.07	1.3	1.9	21	17	8.0	11	9.0	2.7	2.2	1.1	1.4
5	.06	1.5	2.5	14	13	7.3	9.1	6.9	2.7	3.0	.94	1.0
6	.06	1.1	4.9	10	16	900	8.6	6.5	2.6	2.8	1.1	.90
7	.05	1.1	3.0	8.1	21	200	8.3	6.0	6.0	2.5	1.3	.81
8	.96	1.1	2.4	6.3	14	85	452	6.0	12	2.1	1.6	.74
9	1.7	1.1	2.2	6.0	11	35	154	9.5	10	1.8	1.9	.67
10	.50	1.1	2.1	5.4	9.7	15	74	6.7	6.0	1.6	1.2	.63
11	.40	1.1	15	4.9	9.9	14	39	6.2	4.0	1.5	.98	.64
12	.47	1.2	44	4.4	8.7	13	26	5.6	3.3	1.4	.82	.57
13	3.3	2.6	12	4.0	9.0	11	19	5.6	3.0	1.3	.81	.93
14	4.1	1.7	7.1	3.8	401	9.6	16	5.4	2.8	1.3	.74	1.2
15	1.2	1.3	5.7	3.4	91	8.8	16	5.0	2.5	1.3	.75	.90
16	.94	1.2	32	3.2	43	8.7	14	6.3	2.4	1.6	.61	.74
17	.79	1.2	12	3.0	28	19	13	4.9	2.3	1.2	.58	.67
18	.76	1.4	7.8	2.9	19	19	13	4.8	3.2	1.2	.51	.64
19	.76	1.3	6.5	2.8	14	13	13	5.1	3.0	1.2	.46	.66
20	.80	1.5	5.6	2.8	12	12	11	5.4	2.8	1.1	.38	1.5
21	.32	1.4	4.7	10	10	120	11	5.3	2.6	1.1	.35	2.6
22	.83	1.4	4.1	25	14	30	9.8	4.8	4.5	1.1	.32	.93
23	.77	1.4	3.9	20	51	18	10	4.5	6.0	1.0	.27	.60
24	.76	1.3	3.6	16	28	18	13	4.3	5.5	1.0	.27	.56
25	.78	1.2	3.4	14	21	25	10	3.9	3.5	1.4	.46	.54
26	.84	1.2	3.2	13	16	17	9.1	3.8	2.8	1.3	.52	.47
27	.83	1.3	3.1	11	13	48	8.5	3.5	2.5	1.1	.44	.46
28	.84	1.3	4.3	27	11	25	8.1	3.3	2.2	1.0	.34	.45
29	.85	3.5	44	18	---	15	7.9	3.3	4.5	.92	.26	.40
30	.88	5.4	20	14	---	13	7.6	3.5	4.0	.98	.20	.34
31	.91	---	16	13	---	20	---	3.5	---	.89	.17	---
TOTAL	31.27	46.21	290.5	459.5	987.3	1763.6	1047.0	170.3	118.4	49.69	23.08	26.33
MEAN	1.01	1.54	9.37	14.8	35.3	56.9	34.9	5.51	3.95	1.60	.74	.88
MAX	8.3	5.4	44	103	401	900	452	9.5	12	3.5	1.9	2.6
MIN	.05	.93	1.9	2.8	8.7	7.3	7.6	3.3	2.2	.88	.17	.34
CFSM	.07	.10	.63	.99	2.35	3.79	2.33	.37	.26	.11	.05	.06
IN.	.08	.11	.72	1.14	2.45	4.37	2.60	.42	.29	.12	.06	.07
CAL YR 1982	TOTAL	3156.22	MEAN	8.65	MAX	296	MIN	.05	CFSM	.58	IN	7.33
WTR YR 1983	TOTAL	5013.68	MEAN	13.7	MAX	900	MIN	.05	CFSM	.91	IN	12.43

02220900 LITTLE RIVER NEAR EATONTON, GA.

LOCATION.--Lat 33°18'50", long 83°26'14", Putnam County, Hydrologic Unit 03070101, on downstream side of bridge on State Highway 16, 0.9 mi downstream from Gladly Creek, and 3.0 mi west of Eatonton.

DRAINAGE AREA.--262 mi².

PERIOD OF RECORD.--Water years 1971-77 (annual maximum), August 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 370 ft, from topographic map. Feb. 19, 1970 to Aug. 1, 1977, crest-stage gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--6 years, 235 ft³/s, 12.18 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft³/s Mar. 3, 1971, gage height, 24.4 ft; minimum daily discharge, 6.7 ft³/s July 28, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Date	Discharge (ft ³ /s)	Gage height (ft)
Feb. 14	1200	3460	11.77	Mar. 28	1400	2400	9.29
Feb. 23	2000	3720	12.36	Apr. 8	2100	*8100	20.12
Mar. 6	0800	3110	10.98				

Minimum daily discharge, 22 ft³/s Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	55	584	270	252	364	706	235	129	119	41	32
2	33	53	481	831	1200	382	636	228	123	127	56	59
3	33	56	311	1560	1490	326	558	225	118	132	235	82
4	31	99	242	1090	836	294	468	251	116	105	119	90
5	31	126	216	551	449	280	415	240	118	92	80	106
6	30	105	311	396	429	2060	475	215	131	85	73	91
7	29	82	348	330	534	1440	517	190	144	83	100	74
8	31	75	243	289	427	731	4420	199	203	79	76	62
9	45	73	198	260	344	477	7070	223	254	73	97	54
10	59	71	173	243	313	378	4040	204	318	69	106	48
11	74	71	301	231	356	330	1450	190	177	65	73	43
12	73	75	880	222	322	300	831	181	144	64	59	43
13	317	128	880	199	287	273	603	175	127	61	51	41
14	279	176	501	187	2350	256	505	184	118	59	46	42
15	211	135	337	182	2340	243	481	182	109	56	42	44
16	118	105	510	175	1140	240	454	213	101	58	39	43
17	85	94	418	168	618	358	390	294	98	60	37	40
18	69	98	312	163	494	438	371	214	96	60	35	37
19	60	133	266	156	409	348	385	190	96	57	34	36
20	55	146	250	153	362	291	343	197	120	54	32	66
21	54	128	226	192	329	616	310	208	125	50	31	452
22	54	117	201	371	1140	825	292	197	155	47	29	325
23	54	112	186	574	1830	469	298	193	185	45	27	159
24	53	106	179	518	794	518	477	190	158	42	25	98
25	50	100	173	397	535	1060	383	168	129	41	25	76
26	48	91	168	317	438	1060	308	156	111	45	26	64
27	48	90	164	286	370	1740	280	147	99	44	31	57
28	49	93	168	338	335	2310	266	139	107	42	33	53
29	49	251	327	308	---	1310	253	135	148	38	29	50
30	50	530	358	295	---	674	243	158	136	35	24	48
31	52	---	280	281	---	670	---	142	---	33	22	---
TOTAL	2258	3574	10192	11533	20725	21061	28228	6063	4193	2020	1733	2515
MEAN	72.8	119	329	372	740	679	941	196	140	65.2	55.9	83.8
MAX	317	530	880	1560	2350	2310	7070	294	318	132	235	452
MIN	29	53	164	153	252	240	243	135	96	33	22	32
CFSM	.28	.45	1.26	1.42	2.82	2.59	3.59	.75	.53	.25	.21	.32
IN.	.32	.51	1.45	1.64	2.94	2.99	4.01	.86	.60	.29	.25	.36
CAL YR 1982	TOTAL	88623	MEAN 243	MAX 5140	MIN 29	CFSM .93	IN 12.58					
WTR YR 1983	TOTAL	114095	MEAN 313	MAX 7070	MIN 22	CFSM 1.20	IN 16.20					

02221525 MURDER CREEK BELOW EATONTON, GA.

LOCATION.--Lat 33°15'08", long 83°28'53", Putnam County, Hydrologic Unit 03070101, in left bank 250 ft upstream from bridge on county road S-777, 3.0 mi downstream from Beaverdam Creek, 5.8 mi upstream from mouth, and 7.5 mi southwest of Eatonton.

DRAINAGE AREA.--190 mi².

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

GAGE.--Water-stage recorder. Altitude of gage is 375 ft, from topographic map.

REMARKS.--Records good. Some diurnal fluctuation at low flow.

AVERAGE DISCHARGE.--6 years, 164 ft³/s, 11.72 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,700 ft³/s Apr. 9, 1983, gage height, 9.67 ft; minimum daily discharge, 7.7 ft³/s July 30, 1981.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 14	1300	2160	4.97	Apr. 9	1115	*6700	9.67
Mar. 6	0530	2720	5.44				

Minimum daily discharge, 21 ft³/s Oct. 5-7, Aug. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	41	344	204	178	263	432	179	103	98	62	82
2	22	40	263	630	917	244	393	173	100	98	79	83
3	22	44	178	1100	1200	210	356	170	96	85	70	104
4	22	77	143	365	520	196	293	205	94	73	55	96
5	21	80	135	366	299	194	266	177	98	70	49	98
6	21	60	230	268	280	1910	301	160	116	65	45	79
7	21	51	181	221	314	951	329	150	122	62	88	59
8	22	49	142	194	253	429	2280	147	174	58	66	49
9	35	50	123	175	218	314	6090	150	157	54	71	45
10	61	47	113	164	205	258	2970	145	118	51	53	42
11	160	47	260	157	239	231	1100	136	104	50	44	40
12	82	51	945	145	207	212	565	131	95	47	40	41
13	744	123	698	134	185	193	419	125	89	46	38	51
14	266	112	314	129	1490	192	329	129	86	53	35	47
15	122	77	224	125	1710	187	320	134	82	46	33	48
16	75	66	429	121	341	187	307	150	78	99	31	44
17	59	62	291	117	391	301	266	209	78	101	30	41
18	51	68	208	114	301	364	254	151	78	67	29	39
19	47	108	160	109	254	272	274	140	79	61	28	38
20	45	99	165	109	226	237	243	146	106	52	27	65
21	45	94	145	152	205	421	228	153	102	47	26	181
22	44	80	131	361	593	470	218	137	135	45	24	122
23	42	77	123	470	840	307	242	131	175	42	22	70
24	40	72	113	351	416	360	385	129	123	39	22	53
25	39	68	116	251	309	715	321	119	98	39	21	46
26	39	63	114	203	253	680	244	113	85	68	33	42
27	39	54	111	190	224	1130	220	111	76	61	31	41
28	40	65	113	233	215	1480	203	105	94	49	29	39
29	40	254	269	200	---	776	193	102	97	44	26	38
30	40	344	281	208	---	418	185	120	104	41	23	38
31	41	---	207	202	---	423	---	115	---	40	23	---
TOTAL	2370	2528	7314	8268	13286	14530	20226	4442	3142	1851	1253	1861
MEAN	76.5	84.3	236	267	475	469	674	143	105	59.7	40.4	62.0
MAX	744	344	945	1100	1710	1910	6090	209	175	101	88	181
MIN	21	40	111	109	178	187	185	102	76	39	21	38
CFSM	.40	.44	1.24	1.41	2.50	2.47	3.55	.75	.55	.31	.21	.33
IN.	.46	.49	1.43	1.62	2.60	2.84	3.96	.87	.62	.36	.25	.36
CAL YR 1982	TOTAL	59451	MEAN 163	MAX 3980	MIN 21	CFSM .86	IN 11.64					
WTR YR 1983	TOTAL	81071	MEAN 222	MAX 6090	MIN 21	CFSM 1.17	IN 15.87					

02223000 OCONEE RIVER AT MILLEDGEVILLE, GA.

LOCATION.--Lat 33°04'58", long 83°12'51", Baldwin County, Hydrologic Unit 03070101, at right bank on city of Milledgeville water works intake structure at Milledgeville, 0.5 mi upstream from bridge on State Highway 24, 3.8 mi downstream from Sinclair Dam of Georgia Power Co., and at mile 139.1.

DRAINAGE AREA.--2,950 mi², 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, National Geodetic Vertical Datum of 1929. 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 downstream, and Oct. 1, 1939, to Mar. 8, 1966, water-stage recorder 0.3 mi 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 upstream at different datum.

REMARKS.--Records good. Flow regulated by Lake Oconee since January 1979 and Sinclair Reservoir since November 1952. (See "Lakes and Reservoirs in Altamaha River Basin," stations 02220450 and 02225000.)

AVERAGE DISCHARGE.--80 years, 3,350 ft³/s, 15.42 in/yr, adjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 122,000 ft³/s Feb. 25, 1961, gage height, 42.9 ft, from rating curve extended above 77,000 ft³/s; minimum daily, 90 ft³/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 in 1886 at site 0.5 mi downstream at present datum, from information by Georgia Department of Transportation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 62,200 ft³/s Apr. 9, gage height, 35.11 ft; minimum daily discharge, 430 ft³/s Oct. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	671	655	7030	4370	4560	6680	7630	2150	1370	2020	630	678	
2	665	663	7610	5640	7440	6340	7610	4210	784	1730	621	641	
3	752	1070	7570	13300	7730	3100	7570	3310	940	1580	606	637	
4	665	1390	5580	10200	12900	3070	7560	2730	990	1560	612	629	
5	620	742	5190	7700	8010	4250	7520	2800	1070	2220	611	637	
6	649	700	7240	7590	7800	19800	6430	2650	1500	1770	621	643	
7	673	758	4600	7470	7780	16500	6280	2080	2930	1470	628	559	
8	662	964	3120	3260	7740	9040	21100	1850	3290	1120	616	555	
9	430	575	2260	4070	7710	7740	54000	4150	3280	956	609	622	
10	673	771	1320	4220	7650	7660	43000	4030	3310	1420	604	623	
11	673	695	2750	1730	4950	6850	19900	1830	2240	1290	603	626	
12	3350	780	7420	1920	2670	3010	12700	1700	1660	951	604	581	
13	4130	720	7350	1950	3030	1770	7730	1620	1560	810	604	542	
14	4420	716	7420	1940	13600	3730	7660	1830	1480	714	604	532	
15	4580	634	7400	3020	22100	2930	7640	2080	1570	767	602	528	
16	4680	695	7680	3270	7930	2940	4460	3850	886	783	605	539	
17	4210	632	7460	2650	7820	4160	2310	3200	963	820	607	532	
18	3980	811	4690	2840	7770	4230	4010	2860	1190	1090	605	521	
19	3800	670	3090	2590	7240	5110	4470	3230	1140	931	606	524	
20	3680	549	2940	1460	4780	5020	4950	2760	1430	837	609	537	
21	3940	693	1490	2340	3370	7330	4150	3810	1580	306	615	1610	
22	2340	695	1460	4470	6320	7660	4520	3770	839	778	612	1740	
23	642	706	2300	5470	17700	7530	6730	3010	2870	796	616	1610	
24	650	1020	1530	5480	9210	7650	3990	3150	1630	657	617	1550	
25	661	698	2100	5240	8600	7680	4310	1850	2430	644	624	1180	
26	650	685	2350	4750	8170	7610	4280	1740	1990	1080	626	1010	
27	1490	917	1690	3570	7620	14000	4120	1450	2520	767	629	945	
28	680	951	2140	3990	7620	17900	2440	1640	2030	826	626	517	
29	647	2990	3000	4350	---	15900	1670	1290	2310	607	623	515	
30	663	4220	4250	4410	---	8250	1460	1320	1950	605	626	518	
31	663	---	4230	4530	---	7700	---	1310	---	615	628	---	
TOTAL	56989	28965	136760	139700	229820	233240	282300	79290	53932	33020	19049	23081	
MEAN	1838	966	4412	4506	8208	7524	9410	2558	1798	1065	614	769	
MAX	4680	4220	7680	13300	22100	19800	54000	4210	3310	2220	630	1810	
MIN	430	549	1460	1460	2670	1770	1460	1290	734	605	602	515	
MEAN+	1401	1711	4331	4470	8084	7768	9224	2392	1904	780	514	1072	
CFSM+	.47	.58	1.47	1.52	2.74	2.63	3.13	.81	.65	.26	.17	.36	
INT+	.55	.65	1.69	1.75	2.85	3.04	3.49	.93	.72	.30	.20	.41	
CAL YR 1982 TOTAL	1118706	MEAN	3065	MAX	29400	MIN	430	MEAN+	3046	CFSM+	1.03	INT+	14.02
WTR YR 1983 TOTAL	1316146	MEAN	3606	MAX	54000	MIN	430	MEAN+	3612	CFSM+	1.22	INT+	16.62

+ ADJUSTED FOR CHANGE IN CONTENTS IN LAKE OCONEE AND SINCLAIR RESERVOIR.

ALTAMAHA RIVER BASIN

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02223000 OCONEE RIVER AT MILLEDGEVILLE, GA.--Continued

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTANT- ANECUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
12...	0945	2940	70	65	7.2	7.2	24.0	20.5	6.3	75
NOV										
08...	1215	809	71	68	7.5	7.3	18.0	18.5	8.2	85
DEC										
14...	1545	7420	67	68	--	7.4	15.5	15.5	8.5	85
JAN										
11...	1630	309	67	64	7.3	7.2	12.0	16.0	10.4	98
FEB										
08...	1315	7760	54	59	7.2	7.3	9.0	8.5	10.5	92
MAR										
08...	1400	7850	56	54	7.1	7.0	12.5	27.5	10.3	99
APR										
12...	1245	14100	44	45	7.0	6.9	15.0	23.0	9.2	92
MAY										
11...	1215	738	51	51	--	7.1	19.5	27.0	9.0	97
JUN										
14...	1630	5610	49	51	6.8	7.1	24.5	30.0	7.2	87
JUL										
13...	1130	595	54	55	--	7.0	27.0	31.0	7.1	90
AUG										
09...	1130	607	57	60	7.1	7.2	29.5	33.0	7.3	97
SEP										
13...	1200	546	62	63	7.2	7.4	28.0	22.5	6.5	83

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, CON- FIRMED (MPN)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CAC03)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)
OCT											
12...	7	.9	1700	110	21	.06	.050	.030	--	360	80
NOV											
08...	6	.4	90	40	23	.04	.040	<.020	--	120	<50
DEC											
14...	11	1.4	230	<30	22	.10	.020	.020	1.5	460	<50
JAN											
11...	16	.3	110	<30	19	.24	.050	.020	4.5	910	<50
FEB											
08...	33	1.3	110	<30	18	.34	.050	.050	2.5	660	<50
MAR											
08...	32	.6	430	<30	14	.31	.050	.060	3.9	--	--
APR											
12...	52	1.3	14950	2500	12	.19	.110	.060	2.7	3500	130
MAY											
11...	50	1.6	1300	20	14	.40	.060	.100	4.6	2700	70
JUN											
14...	25	.8	23000	40	13	.26	.060	.070	3.2	610	<50
JUL											
13...	22	1.4	1700	50	15	.24	.080	.030	6.6	1300	120
AUG											
09...	3	.7	2300	80	19	.12	.060	<.020	2.8	360	150
SEP											
13...	4	.3	--	--	20	.09	.040	.020	--	130	80

ALTAMAHA RIVER BASIN

02223040 OCONEE RIVER NEAR HARDWICK, GA.

LOCATION.--Lat 33°01'45", long 83°11'24", Baldwin County, Hydrologic Unit 03070102, on right bank 1 mi downstream from Camp Creek, and 3 mi southeast of Hardwick.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Flow regulated by Lake Oconee and Sinclair Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", stations 02220450 and 02222500.) Discharge obtained from gaging station 02223000, Oconee River at Milledgeville, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
12...	1045	426	--	72	7.3	7.2	23.0	22.5	6.2	72
NOV										
08...	1100	1200	73	70	7.4	7.4	16.5	17.0	9.1	92
DEC										
14...	1500	7410	67	70	--	7.3	15.0	14.5	8.4	83
JAN										
11...	1530	802	74	70	7.1	7.1	11.5	15.5	9.3	87
FEB										
08...	1215	7760	65	65	7.3	7.4	8.5	7.5	11.5	99
MAR										
08...	1245	7930	56	52	7.0	6.9	12.5	28.0	9.8	94
APR										
12...	1145	14200	45	46	7.0	7.0	15.0	22.0	8.6	86
MAY										
11...	1130	732	57	57	--	6.8	19.0	27.5	8.7	93
JUN										
14...	1530	381	56	59	6.9	7.0	24.5	29.0	6.9	83
JUL										
13...	1030	595	58	60	--	7.0	27.5	28.0	5.9	75
AUG										
09...	1230	607	64	66	7.1	7.2	29.5	34.5	7.4	99
SEP										
13...	1115	535	68	67	7.2	7.4	26.5	22.0	7.1	89

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC GROWTH (MPN)	ALKA- LINITY LAB (MG/L AS CACO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT								
12...	8	1.0	80	23	.08	.120	.060	--
NOV								
08...	10	.4	750	24	.05	.070	.040	--
DEC								
14...	11	1.7	<35	22	.10	.030	.030	1.7
JAN								
11...	17	1.6	2300	19	.26	.170	.120	4.7
FEB								
08...	32	.8	230	21	.34	.060	.050	1.9
MAR								
08...	34	.8	2300	14	.31	.060	.060	4.2
APR								
12...	54	1.4	2200	13	.30	.060	.090	4.7
MAY								
11...	50	1.6	490	15	.39	.090	.060	5.0
JUN								
14...	29	1.6	2300	16	.29	.120	.120	3.0
JUL								
13...	18	1.7	110	17	.22	.190	.060	5.5
AUG								
09...	7	1.1	490	19	.14	.100	.100	3.2
SEP								
13...	6	1.0	--	21	.11	.160	.060	3.8

02223250 OCONEE RIVER NEAR TOOMSBORO, GA.

LOCATION.--Lat 32°46'54", long 82°57'30", Wilkinson-Washington County line, Hydrologic Unit 03070102, at bridge on State Highway 57, 3.2 mi downstream of Commissioner Creek, 7.5 mi east of Toombsboro, and at mile 96.2.

DRAINAGE AREA.--3,770 mi².

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Flow regulated by Lake Oconee and Sinclair Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", stations 02220450 and 02222500.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHCS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
12...	1200	660	150	147	7.4	7.4	24.0	25.5	6.2	74
NOV										
03...	0945	1030	110	107	6.9	7.1	11.0	12.0	9.2	83
DEC										
14...	1315	9500	67	70	--	7.2	13.5	13.0	8.6	82
JAN										
11...	1400	6300	67	65	7.2	7.3	11.5	16.0	9.5	88
FEB										
08...	1100	12700	63	59	7.1	7.1	8.0	7.0	11.0	93
MAR										
02...	1115	15000	52	51	6.9	6.7	25.5	15.0	7.8	97
APR										
12...	1045	38000	48	49	6.8	6.9	15.5	19.0	8.3	84
MAY										
11...	1000	5210	53	55	--	7.0	19.0	25.0	8.5	91
JUN										
14...	1345	2100	70	73	7.0	7.1	24.5	33.0	7.5	91
JUL										
13...	0900	1050	74	77	--	7.3	28.0	30.0	6.4	82
AUG										
09...	1415	830	105	109	7.3	7.3	29.5	36.0	7.7	102
SEP										
13...	1015	760	83	89	7.4	7.5	27.5	21.5	7.0	89

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- IDITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINEITY LAB (MG/L AS CACO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
12...	30	10	.7	230	22	.23	.020	.040	--
NOV									
08...	40	9	.3	930	22	.11	.050	.060	--
DEC									
14...	40	35	1.5	110	20	.11	.070	.060	3.0
JAN									
11...	70	35	.9	390	17	.24	.050	.080	3.8
FEB									
08...	110	52	1.3	930	15	.03	.070	.070	7.1
MAR									
08...	150	52	.6	930	13	.18	.040	.080	7.8
APR									
12...	200	37	1.3	460	13	.27	.030	.070	4.1
MAY									
11...	160	72	1.7	790	13	.41	.270	.060	5.1
JUN									
14...	100	31	1.5	130	15	.30	<.020	.070	3.4
JUL									
13...	50	25	1.2	50	18	.27	.060	.050	4.4
AUG									
09...	30	10	.4	140	18	.20	.040	.050	3.3
SEP									
13...	20	9	.3	--	20	.16	.080	.050	4.1

ALTAMAHA RIVER BASIN

02223500 OCONEE RIVER AT DUBLIN, GA.

LOCATION.--Lat 32°32'40", long 82°53'41", Laurens County, Hydrologic Unit 03070102, near left bank on downstream end of pier of bridge on U.S. Highway 80 at Dublin, and at mile 74.3.

DRAINAGE AREA.--4,400 mi², approximately.

WATER-DISCHARGE RECORDS

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, National Geodetic Vertical Datum of 1929. Prior to Apr. 14, 1932, nonrecording gage and Apr. 15, 1932, to June 17, 1934, water-stage recorder at site 420 ft downstream at datum 3.0 ft 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 upstream at present datum.

REMARKS.--Records good. Flow regulated by Lake Oconee and Sinclair Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", stations 02220450 and 02222500.) Records of chemical analyses for the water years 1968-73 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--86 years (1897-1983), 5,020 ft³/s, 15.49 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 97,700 ft³/s Apr. 12, 13, 1936, gage height, 32.97 ft; minimum, 333 ft³/s Sept. 12, 1951, gage height, 0.48 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1893, that of Apr. 12, 13, 1936.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 19,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 18	2100	22800	20.50	Apr. 1	1500	20400	19.44
Mar. 10	2100	22300	20.32	Apr. 12	2400	*45100	26.93

Minimum daily discharge, 708 ft³/s Oct. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	751	866	3360	9950	6970	14000	20200	3300	1580	2560	369	821
2	737	856	5460	10400	7240	13000	19400	3010	1540	2420	1330	1010
3	749	851	6640	10600	8760	11900	17100	4320	1510	2280	1340	1150
4	735	1050	7110	11100	9870	10200	14600	4950	1110	2080	1230	1090
5	782	1530	6640	11900	10400	7100	12700	4540	1220	1920	1170	1030
6	762	1720	5900	12800	11100	7910	11400	4290	1290	2100	1040	1040
7	733	1320	6900	13700	11900	10600	10700	4130	1430	2230	1070	1020
8	738	1160	6270	13700	12300	12100	9960	3240	2500	1830	1070	982
9	779	1170	5130	12400	12100	16300	9900	3050	3600	1580	1020	898
10	794	1110	3420	9590	11500	21600	11700	3830	3390	1340	977	868
11	708	1030	2850	6650	11000	21200	22700	4650	3940	1270	917	936
12	829	1030	3760	5010	10500	18000	40900	3550	3160	1500	897	918
13	1600	979	7980	3540	7560	14100	43800	2650	2750	1410	873	976
14	3600	1130	9660	3480	8820	8530	37400	2360	2270	1210	848	1180
15	4320	1140	10200	3340	11900	4860	29900	2350	1940	1080	820	1160
16	4680	1080	10300	3260	13600	5200	23700	2450	1830	994	796	1040
17	4770	1030	10400	3920	17000	5610	18500	3460	1690	992	780	971
18	4570	1140	10500	3870	21800	7090	13500	3900	1390	996	771	906
19	4080	1640	9880	3610	21800	7800	8140	3430	1460	1020	761	849
20	3960	1890	5620	3660	19100	8160	6950	3590	1390	1150	755	847
21	3800	1720	4200	3370	15900	8390	6990	3590	1390	1080	746	858
22	3720	1450	3740	4610	12000	9050	6540	3440	1600	1000	738	949
23	3490	1360	2570	6840	3550	10000	6590	4020	1700	955	735	1590
24	1730	1260	2560	8230	9550	10800	7930	3820	1700	981	728	1770
25	1060	1170	2700	8820	11100	11400	8190	3350	2560	966	723	1740
26	960	1290	2400	8610	12700	11500	7460	2920	2260	846	735	1560
27	920	1150	2700	7920	14400	11800	7160	2260	2440	899	736	1310
28	901	1090	2770	6900	14600	12100	6670	2310	2420	1150	747	1170
29	1350	1210	3860	6380	---	12400	5630	1620	2520	988	748	1080
30	978	1720	7480	6590	---	13700	3740	1840	2400	972	737	814
31	877	---	9020	6890	---	17400	---	1630	---	849	731	---
TOTAL	60463	37142	182980	230640	344020	353800	450050	101950	62480	42648	27438	32533
MEAN	1950	1238	5903	7440	12290	11410	15000	3285	2083	1376	885	1084
MAX	4770	1890	10500	13700	21800	21600	43800	4950	3940	2560	1340	1770
MIN	708	851	2400	3260	6970	4860	3740	1620	1110	846	723	814

CAL YR 1982	TOTAL	1526219	MEAN	4181	MAX	28100	MIN	708	MEAN+	4162	CFSM+	0.95	IN+	12.82
WTR YR 1983	TOTAL	1926044	MEAN	5277	MAX	43800	MIN	708	MEAN+	5283	CFSM+	1.20	IN+	16.30

+ ADJUSTED FOR CHANGE IN CONTENTS IN LAKE OCONEE AND SINCLAIR RESERVOIR.

ALTAMAHA RIVER BASIN

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02223500 OCONEE RIVER AT DUBLIN, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1963 to September 1964, February 1968 to July 1973.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1963 to September 1964, June 1979 to September 1983 (discontinued).

INSTRUMENTATION.--Water-temperature recorder June 1979 to September 1983.

REMARKS.--No daily water-temperature record Aug. 1 to Sept. 30.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 31.5°C Aug. 9, 10, 1979, Aug. 20-22, 1980; minimum, 2.5°C Dec. 21, 1981.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 30.0°C July 25-27; minimum, 4.5°C Jan. 22.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

ALTAMAHA RIVER BASIN

02223500 OCONEE RIVER AT DUBLIN, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	13.5	13.0	20.0	19.0	24.5	23.5	27.0	26.0				
2	14.0	13.5	20.5	19.5	24.0	23.0	27.5	26.5				
3	14.5	14.0	20.0	18.5	23.5	23.0	28.0	27.0				
4	14.5	14.0	18.5	18.0	24.0	23.5	29.0	27.5				
5	15.0	14.5	18.5	17.5	24.5	24.0	29.0	28.0				
6	15.5	15.0	19.0	18.0	25.0	24.5	29.0	27.5				
7	16.0	15.5	19.5	18.5	25.0	25.0	28.0	27.5				
8	16.0	16.0	19.0	19.0	24.5	23.0	28.0	27.0				
9	16.0	15.5	19.5	19.0	24.0	22.5	27.5	26.5				
10	16.0	15.5	20.0	19.5	24.0	23.0	27.5	26.5				
11	15.5	15.5	20.5	19.5	24.0	23.0	28.0	27.0				
12	15.5	15.5	21.0	19.5	24.5	23.0	28.5	28.0				
13	16.0	15.5	22.0	20.0	25.0	23.5	29.0	28.5				
14	16.0	16.0	22.0	21.0	25.0	23.5	29.0	28.5				
15	16.5	16.0	22.0	21.5	26.0	23.5	29.0	28.5				
16	16.5	16.0	22.5	21.5	26.0	24.5	29.0	28.5				
17	16.0	15.5	22.0	21.0	26.5	24.5	29.0	29.0				
18	15.5	14.5	20.5	20.0	26.5	25.0	29.0	28.5				
19	14.5	14.0	20.0	20.0	26.0	25.5	29.0	28.5				
20	14.0	14.0	20.0	20.0	26.0	25.5	29.0	28.5				
21	14.5	14.0	21.5	20.0	26.0	25.5	28.5	28.5				
22	15.0	14.5	22.0	21.0	25.5	25.5	29.0	29.0				
23	15.5	15.0	22.0	21.5	25.5	25.0	29.5	29.0				
24	15.5	15.5	22.5	22.0	26.0	25.0	29.5	29.5				
25	15.5	15.0	23.0	22.0	26.5	25.0	30.0	29.5				
26	15.5	15.0	23.5	22.0	27.5	26.0	30.0	30.0				
27	16.5	15.5	24.0	22.0	27.0	26.5	30.0	29.0				
28	17.0	16.5	24.0	22.0	27.0	27.0	29.5	28.5				
29	17.5	17.0	23.0	22.5	27.0	26.5	28.5	28.5				
30	19.0	17.5	24.0	22.5	26.5	26.0	28.5	28.0				
31	---	---	24.5	23.0	---	---	28.0	27.5				
MONTH	19.0	13.0	24.5	17.5	27.5	22.5	30.0	26.0				

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, Hydrologic Unit 03070102, at Interstate Highway 16, 4.0 mi upstream from Pughes Creek, 4.5 mi southeast of Dublin, and at mile 69.9.

DRAINAGE AREA.--4,400 mi², approximately.

PERIOD OF RECORD.--October 1973 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Flow regulated by Lake Oconee and Sinclair Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", stations 02220450 and 02222500.) Discharge obtained from gaging station 02223500, Oconee River at Dublin, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 12...	1400	900	150	144	7.2	7.2	24.5	29.0	6.6	79
NOV 08...	0745	1160	--	119	7.2	7.2	6.5	6.0	6.6	53
DEC 14...	1100	9710	67	67	6.7	7.1	12.5	12.5	8.9	83
JAN 11...	1130	6450	74	66	7.2	7.2	10.5	12.5	9.1	82
FEB 08...	0915	12300	76	65	6.8	7.0	7.5	6.0	10.5	88
MAR 08...	0930	11900	53	49	6.9	6.7	15.5	22.5	7.3	80
APR 12...	0900	40900	50	49	6.7	6.7	15.5	16.5	7.5	76
MAY 11...	0300	4350	62	64	--	7.0	19.5	19.5	7.8	84
JUN 14...	1145	2140	73	75	7.0	7.1	24.5	33.0	7.1	86
JUL 13...	0730	1560	73	81	--	7.3	29.0	27.0	6.0	79
AUG 09...	1600	1020	107	122	7.1	7.2	30.0	36.0	6.6	89
SEP 13...	0830	925	128	119	7.2	7.4	31.0	22.0	6.2	83

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 12...	30	8	--	.6	110	26	4	.18	.100	--	.050	--
NOV 08...	50	9	--	.5	230	25	3	.11	.080	--	.070	--
DEC 14...	70	50	--	1.6	930	18	64	.08	.030	--	.070	4.6
JAN 11...	100	31	--	.9	410	16	34	.22	.070	--	.090	5.6
FEB 08...	100	50	--	.6	210	16	25	.26	.060	--	.070	2.6
MAR 08...	200	60	--	1.1	930	13	71	.18	.040	--	.100	5.7
APR 12...	140	40	--	1.2	790	13	57	.30	<.020	--	.080	5.1
MAY 11...	160	62	--	2.0	230	14	34	.40	.070	--	.090	6.9
JUN 14...	80	31	--	1.4	130	14	23	.29	.040	--	.090	3.7
JUL 13...	60	29	11	1.2	790	16	24	.24	.140	.40	.060	4.4
AUG 09...	30	10	12	.4	2200	18	6	.15	.190	.40	.080	4.1
SEP 13...	30	7	11	.6	--	22	4	.16	.150	.40	.070	4.1

ALTAMAHA RIVER BASIN

02224000 ROCKY CREEK NEAR DUDLEY, GA.

LOCATION.--Lat 32°29'38", long 83°08'49", Laurens County, Hydrologic Unit 03070102, on downstream side of highway bridge, 3.2 mi upstream from Buckhorn Branch, and 5 mi southwest of Dudley.

DRAINAGE AREA.--62.9 mi².

PERIOD OF RECORD.--November 1970 to current year. Water-discharge records for water years 1952-76 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
MAR 15...	0900	66	53	43	7.1	7.2	12.5	10.1	96
JUN 29...	0845	6.9	75	80	6.8	6.7	25.5	5.4	67

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- IDY (NTU)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)
MAR 15...	40	6.3	16	3	5.0	1.0	2.5	24	.3	.9	13	2.0
JUN 29...	25	3.8	30	3	9.7	1.3	3.3	19	.3	1.0	27	8.3

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTIT- UENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
MAR 15...	6.0	6.2	<.10	5.4	39	36	6.9	.05	.50	.53	.020	.020
JUN 29...	5.7	6.8	<.10	6.2	53	51	1.1	.08	.40	.41	.050	.040

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)
MAR 15...	.38	.18	.40	.20	.90	.73	.040	.020	5.8	200	1	1
JUN 29...	.75	.56	.80	.60	1.2	1.0	.040	.020	5.4	10	1	1

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, DIS- SOLVED (UG/L AS ZN)
MAR 15...	<1	20	2	490	2	3	35	.1	<.1	<1	4
JUN 29...	1	10	1	460	--	8	79	.1	.1	<1	24

02225000 ALTAMAHA RIVER NEAR BAXLEY, GA.

LOCATION.--Lat 31°56'20", long 82°21'13", Appling-Toombs County line, Hydrologic Unit 03070106, on right bank 400 ft downstream from bridge on U.S. Highway 1, 2.2 mi upstream from Bay Creek, 8 mi downstream from Bullards Creek, and 12 mi north of Baxley.

DRAINAGE AREA.--11,600 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1949 to June 1951, October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 61.51 ft, National Geodetic Vertical Datum of 1929. Aug. 13, 1949, to June 30, 1951, nonrecording gage at site 400 ft upstream at same datum.

REMARKS.--Records good except for period Jan. 6 to Mar. 10, Mar. 11-25, and June 10-17, which are fair.

AVERAGE DISCHARGE.--14 years (1949-50, 1971-83), 11,890 ft³/s, 13.92 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 97,500 ft³/s Mar. 12, 1971, gage height, 22.7 ft; minimum daily, 1,680 ft³/s Oct. 25, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 10, 1948, reached a stage of 25.1 ft, from floodmark, discharge, 130,000 ft³/s.

Flood of January 1925 reached a stage of 30.0 ft, from information furnished by Georgia Department of Transportation.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 25,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 12	--	25200	14.2	Apr. 7	1600	40700	16.92
Feb. 24	--	42300	17.1	Apr. 19	1400	*57500	19.08
Mar. 15	--	44100	17.4				

Minimum daily discharge, 2,250 ft³/s Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2640	3330	4260	13600	18500	30000	33400	18900	5840	6850	2920	2400
2	2580	3100	4420	15500	18200	27900	34000	17000	5510	6610	3160	2400
3	2500	2970	5520	17600	19400	27900	35000	15000	5230	6410	3230	2440
4	2440	3150	6950	20000	19100	27400	36700	13700	5050	6280	3250	2550
5	2410	3170	8130	22000	19400	28400	38700	13500	4920	6330	3470	2740
6	2370	3160	9010	21500	19400	28900	40100	13800	4670	6520	3530	3000
7	2350	3420	9630	22800	19700	29400	40600	13600	4610	6490	3670	3370
8	2340	3780	9880	23200	20000	31800	40200	12900	4690	6270	3710	3690
9	2320	3950	10100	23600	22100	35400	39200	12300	5030	6010	3650	3670
10	2300	3980	10400	24800	22800	38800	37400	11500	5800	5490	3550	3510
11	2380	4080	10300	24800	23500	40000	35400	10700	6600	5020	3420	3370
12	2560	4050	9910	25200	24100	41000	33200	10600	7200	4570	3390	3240
13	2600	3740	9780	24400	25200	42000	31200	10800	7500	4220	3380	3220
14	2510	3570	10600	23600	26000	43000	30900	10400	7400	4200	3320	3350
15	2800	3470	12000	21800	28900	44000	36800	9260	7200	4090	3170	3350
16	4170	3350	13200	20000	33600	44000	47100	8490	6700	3840	3010	3390
17	5320	3370	14200	18600	36000	43000	53600	7990	6410	3670	2900	3420
18	6120	3470	15000	16900	36700	41500	56300	7570	5870	3550	2780	3440
19	6720	3720	15800	16200	36700	40000	57300	7700	5450	3420	2680	3470
20	7060	3970	16500	15200	36700	38000	56500	8100	4910	3280	2610	3400
21	7110	4370	17000	14500	38100	35800	53400	8050	4560	3200	2550	3230
22	7110	4780	17400	14100	38800	34600	48200	8060	4500	3220	2500	3070
23	7000	4900	17000	14300	40200	31600	43100	8140	4340	3200	2460	2980
24	6640	4920	15700	14300	42300	29900	38000	8120	4340	3110	2410	2950
25	6190	5000	14500	14100	40900	29400	33600	8420	4470	3020	2360	3230
26	5300	5030	13900	14300	38800	28800	29600	8420	4670	3030	2360	3680
27	4320	4860	13500	14300	35400	28800	26200	8070	5490	2970	2320	4050
28	3710	4590	12800	16600	33000	29500	23700	7630	5970	2870	2260	4280
29	3390	4410	11900	17400	---	30900	21900	7000	6440	2750	2250	4310
30	3210	4300	11300	18500	---	32100	20400	6660	6680	2840	2290	4060
31	3270	---	11800	18800	---	32900	---	6170	---	2900	2350	---
TOTAL	123740	117960	362390	582500	813500	1066700	1151700	313550	168050	136230	90910	99260
MEAN	3992	3932	11690	18790	29050	34410	38390	10280	5602	4395	2933	3309
MAX	7110	5030	17400	25200	42300	44000	57300	18900	7500	6850	3710	4310
MIN	2300	2970	4260	13600	18200	27400	20400	6170	4340	2750	2250	2400
CFSM	.34	.34	1.01	1.62	2.50	2.97	3.31	.89	.48	.38	.25	.29
IN.	.40	.38	1.16	1.87	2.61	3.42	3.69	1.02	.54	.44	.29	.32
CAL YR 1982	TOTAL	4047000	MEAN	11090	MAX	49000	MIN	2300	CFSM	.96	IN	12.98
WTR YR 1983	TOTAL	5031490	MEAN	13780	MAX	57300	MIN	2250	CFSM	1.19	IN	16.14

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 September 1976.

pH: October 1971 to September 1976.

WATER TEMPERATURES: December 1970 to September 1976.

DISSOLVED OXYGEN: May 1971 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, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CHLORIDE: Maximum recorded, 19 mg/L Oct. 10, 1974; minimum recorded, 0.0 mg/L Dec. 26-28, 1972, June 2, 3, 1973.

SPECIFIC CONDUCTANCE: Maximum recorded, 157 micromhos Oct. 9, 1972; minimum recorded, 24 micromhos Feb. 28, Mar. 1, 1974.

pH: Maximum recorded, 8.0 units May 14, 1972; minimum recorded, 5.1 units Dec. 28, 1971.

WATER TEMPERATURES: Maximum, 32.0°C July 24, Aug. 5, 1972; minimum, 5.5°C Jan. 11, 19, 20, 1976.

DISSOLVED OXYGEN: Maximum recorded, 11.7 mg/L Jan. 17, 18, 1973; minimum recorded, 4.7 mg/L Aug. 21, 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
05...	0825	2410	--	137	7.6	7.5	23.0	22.0	7.0	81
NOV										
17...	0840	3370	127	123	7.4	7.6	14.0	14.0	9.4	91
DEC										
09...	1205	10100	--	81	7.6	7.3	15.0	19.0	8.8	86
JAN										
13...	1035	24400	55	58	6.5	6.8	8.5	7.0	10.4	88
FEB										
10...	0750	22600	61	60	6.9	6.9	8.0	6.5	10.2	85
MAR										
15...	0815	44000	--	55	--	6.7	13.5	17.0	7.7	73
APR										
06...	0915	39900	54	54	6.8	6.8	16.0	25.5	7.7	78
MAY										
17...	1705	7890	86	90	7.1	7.5	24.0	26.0	--	--
JUN										
08...	1005	4670	97	99	7.4	7.5	25.0	22.5	7.1	26
JUL										
07...	0835	6540	90	87	7.4	7.4	28.5	28.0	5.7	73
AUG										
10...	0950	3560	120	124	7.4	7.7	30.0	34.0	6.3	83
SEP										
07...	0815	3310	136	137	7.6	7.7	29.0	24.0	6.6	86

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CACO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
05...	30	6	.8	20	46	.40	.100	.050	2.0
NOV									
17...	10	6	1.3	<30	37	.37	.040	.050	--
DEC									
09...	100	33	.5	430	22	.26	.020	.100	4.4
JAN									
13...	120	25	1.6	230	14	.18	.030	.060	7.7
FEB									
10...	120	21	1.3	40	15	.23	.030	.070	4.0
MAR									
15...	120	22	1.1	40	14	.09	.020	.060	10
APR									
06...	120	19	1.4	40	14	.16	.090	.040	5.5
MAY									
17...	60	22	.6	180	27	.34	.050	.090	3.8
JUN									
08...	30	24	1.1	<20	30	.48	.100	.080	4.8
JUL									
07...	60	22	.6	20	25	.43	.020	.080	2.5
AUG									
10...	40	12	.7	<35	32	.37	.030	.080	3.5
SEP									
07...	30	6	.8	<20	39	.46	.020	.080	3.4

ALTAMAHA RIVER BASIN

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02225470 PENDLETON CREEK NEAR OHOOPEE, GA.

LOCATION.--Lat 32°09'36", Long 82°12'43", Toombs County, Hydrologic Unit 03070107, at bridge on State Route 86, 1.5 mi south of Ohoopee, and 1.6 mi upstream of Ohoopee River.

DRAINAGE AREA.--300 mi².

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
04...	1505	5.0	--	43	6.5	6.2	20.0	25.0	6.1	67
NOV										
16...	1635	7.0	62	66	6.7	6.6	12.5	14.0	8.1	75
DEC										
09...	0935	13	102	103	--	7.0	18.0	14.0	6.5	68
JAN										
13...	0915	388	52	52	5.7	5.5	8.0	6.0	11.2	94
FEB										
09...	1720	840	--	41	5.5	5.4	7.5	15.0	10.1	84
MAR										
14...	1600	210	--	34	--	5.6	15.5	15.0	7.7	77
APR										
05...	1805	700	--	32	5.5	5.7	16.0	24.5	7.9	79
MAY										
17...	1525	84	45	45	5.9	6.1	22.5	24.5	4.2	42
JUN										
08...	0620	30	46	47	6.2	6.4	22.0	19.0	6.2	71
JUL										
06...	1630	28	48	48	6.2	6.5	26.5	30.0	6.0	75
AUG										
10...	0805	3.4	42	45	6.5	6.4	26.5	27.0	5.7	71
SEP										
06...	1620	3.4	51	46	6.4	6.8	28.0	33.0	5.9	76

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CAC03)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
04...	70	3	--	130	8.0	.13	.060	.050	8.0
NOV									
16...	50	1	1.5	40	11	<.02	<.020	.030	--
DEC									
09...	60	4	1.8	230	21	.19	.040	.140	13
JAN									
13...	100	7	1.3	30	3.0	.08	.040	.040	15
FEB									
09...	100	5	1.8	40	2.0	.12	.040	.030	.6
MAR									
14...	120	4	1.0	70	3.0	.05	.050	.040	14
APR									
05...	100	4	1.8	<30	3.0	.02	.030	.030	12
MAY									
17...	120	7	1.4	50	5.0	.30	.050	.080	14
JUN									
08...	70	7	.9	250	5.0	.82	.100	.070	11
JUL									
06...	110	6	1.3	--	8.0	.18	.110	.100	13
AUG									
10...	30	2	.7	20	8.0	<.02	.040	.040	4.4
SEP									
06...	40	1	.9	70	9.0	<.02	.020	.050	6.5

ALTAMAHA RIVER BASIN

02225500 OHOOPEE RIVER NEAR REIDSVILLE, GA.

LOCATION.--Lat 32°04'42", long 82°10'39", Tattnall County, Hydrologic Unit 03070107, on downstream side of pier near center of span of bridge on State Highway 56, 0.5 mi downstream from Brazells Creek, 1.5 mi downstream from Rocky Creek, 3.5 mi west of Reidsville, 6 mi downstream from Pendleton Creek, and 14 mi upstream from mouth.

DRAINAGE AREA.--1,110 mi², 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: 1938(M). WSP 1504: 1905.

GAGE.--Water-stage recorder. Datum of gage is 73.8 ft, National Geodetic Vertical Datum of 1929 (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.--50 years, 989 ft³/s, 12.10 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,400 ft³/s Mar. 6, 1966, gage height, 23.34 ft; minimum daily, 19 ft³/s Sept. 12, 13, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 28.4 ft in January 1925, from information furnished by Georgia Department of Transportation; discharge, 47,000 ft³/s.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 4	1700	4350	13.06	Mar. 21	1300	5790	14.57
Feb. 18	1900	8160	16.50	Apr. 16	1400	4130	12.79
Mar. 10	2000	*9190	17.18				

Minimum discharge, 41 ft³/s Nov. 3, Aug. 29, 30, Sept. 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	41	97	802	3440	3590	4220	1990	145	326	58	44
2	62	41	87	1080	3470	3620	4040	1740	137	379	67	43
3	60	41	96	1530	3820	3570	3740	1500	131	305	65	46
4	58	47	85	1960	4260	3520	3440	1310	124	246	64	51
5	57	55	85	2250	4140	3560	3130	1150	119	202	62	51
6	56	75	92	2520	3920	3750	2850	1090	118	174	61	49
7	55	76	94	2800	3860	4330	2600	1020	129	150	61	46
8	54	74	95	2900	3650	5130	2400	952	174	133	60	45
9	53	72	94	2860	3400	6730	2300	884	361	121	58	45
10	52	68	92	2780	3200	8930	2300	810	574	112	64	44
11	60	65	93	2580	3000	8390	2350	742	760	105	67	43
12	70	62	141	2300	2800	6560	2490	677	850	98	65	42
13	68	61	271	1980	2700	4980	2710	608	665	93	63	42
14	63	58	314	1710	3600	4040	3140	542	467	89	60	43
15	57	57	330	1510	5200	3420	3730	478	357	85	56	42
16	57	56	366	1390	6700	3050	4080	426	279	82	54	42
17	56	56	397	1330	7800	3120	3970	393	223	79	51	42
18	52	57	424	1260	8070	3800	3570	408	188	77	49	44
19	50	58	434	1180	7870	4340	3290	431	169	75	47	58
20	49	59	444	1100	7030	5500	3010	390	157	74	46	65
21	50	54	426	1160	5880	5760	2680	348	142	72	45	64
22	50	78	383	1780	4790	5550	2390	319	136	71	45	63
23	48	89	363	2360	4080	4940	2630	294	131	68	43	62
24	46	92	344	2710	3660	4340	3370	272	126	67	43	62
25	45	90	326	3000	3590	3910	3630	255	123	65	41	61
26	45	92	306	3210	4150	3550	3340	236	122	64	42	59
27	45	92	288	3220	4080	3480	3080	210	119	63	42	55
28	44	89	272	3370	3680	3750	2860	192	118	62	42	51
29	43	89	275	3560	---	4040	2580	178	142	61	41	47
30	42	87	361	3610	---	4090	2280	166	189	60	41	45
31	42	---	603	3510	---	4220	---	155	---	59	43	---
TOTAL	1653	2041	8063	69312	125840	142060	92200	20196	7475	3717	1646	1496
MEAN	53.3	68.0	260	2236	4494	4583	3073	651	249	120	53.1	49.9
MAX	70	92	603	3610	8070	8930	4220	1990	950	379	67	65
MIN	42	41	85	802	2700	3050	2230	155	118	59	41	42
CFSM	.05	.06	.23	2.01	4.05	4.13	2.77	.59	.22	.11	.03	.05
IN.	.06	.07	.27	2.32	4.22	4.76	3.09	.68	.25	.12	.06	.05
CAL YR 1982	TOTAL	335583	MEAN	919	MAX	4690	MIN	41	CFSM	.83	IN	11.25
WTR YR 1983	TOTAL	475699	MEAN	1303	MAX	8930	MIN	41	CFSM	1.17	IN	15.94

ALTAMAHA RIVER BASIN

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02225500 OHOOPEE RIVER NEAR REIDSVILLE, GA.--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT 20...	1200	50	20.5	1	.14

ALTAMAHA RIVER BASIN

02225990 ALTAMAHA RIVER NEAR JESUP, GA.

LOCATION.--Lat 31°39'59", long 81°50'19", Wayne-Long County line, Hydrologic Unit 03070106, at bridge on U.S. Highways 25, 82, and 301, 5 mi northeast of Jesup.

DRAINAGE AREA.--13,600 mi², approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Discharge obtained from gaging station 02226000, Altamaha River at Doctortown, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
06...	1120	2720	130	137	7.7	7.8	24.0	25.0	7.7	91
NOV										
23...	1315	4730	119	118	--	7.7	18.0	23.0	8.4	88
DEC										
13...	1420	10900	83	82	6.8	7.3	13.0	12.0	7.7	72
JAN										
19...	1230	25000	64	62	--	6.9	7.0	2.0	11.2	92
FEB										
08...	1540	30200	56	57	6.8	6.9	9.5	13.0	9.6	83
MAR										
16...	1300	48800	49	49	6.9	7.0	14.0	16.0	8.0	79
APR										
12...	1550	43700	56	55	7.0	7.0	18.5	27.0	7.1	76
MAY										
25...	1200	8490	80	85	7.4	7.3	25.0	28.0	6.7	82
JUN										
22...	1245	4990	95	93	7.3	7.5	26.5	30.5	6.7	83
JUL										
11...	1300	5720	90	86	7.9	7.7	30.0	32.0	7.1	94
AUG										
17...	1200	3330	120	122	7.5	7.8	29.0	25.5	7.4	97
SEP										
19...	1330	3380	119	116	7.7	7.4	27.5	26.0	7.4	93

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CaCO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
OCT											
06...	50	10	1.0	<20	42	12	.35	<.020	.040	2.0	<.50
NOV											
23...	30	9	.4	40	31	21	.32	.040	.070	--	.50
DEC											
13...	60	21	.8	150	22	23	.28	<.020	.090	7.6	.80
JAN											
19...	100	28	1.7	--	14	3	.24	.030	.050	9.3	1.7
FEB											
08...	100	25	1.6	40	13	<1	.20	.050	.050	5.7	2.8
MAR											
16...	120	19	1.8	40	12	2	.09	.020	.090	12	1.3
APR											
12...	140	15	.7	70	15	3	.19	.050	.080	11	.90
MAY											
25...	100	35	1.7	80	22	27	.45	.060	.090	4.1	<.50
JUN											
22...	40	25	1.1	<20	27	24	.26	<.020	.070	3.4	<.50
JUL											
11...	50	20	1.2	20	29	27	.26	.060	.080	6.6	.70
AUG											
17...	30	15	1.5	<20	33	16	.30	<.020	.060	8.6	<.50
SEP											
19...	40	17	.9	<20	35	27	.47	<.020	.100	5.3	.50

ALTAMAHA RIVER BASIN

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02226000 ALTAMAHA RIVER AT DOCTORTOWN, GA.

LOCATION.--Lat 31°39'16", long 81°49'41", Wayne-Long County line, Hydrologic Unit 03070106, on right bank 60 ft downstream from Seaboard Coast Line Railroad bridge at Doctortown, 4.5 mi northeast of Jesup, and at mile 64.5.

DRAINAGE AREA.--13,600 mi², approximately.

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, National Geodetic Vertical Datum of 1929. Prior to Sept. 5, 1934, non-recording gage, and Sept. 5, 1934, to Sept. 30, 1975, water-stage recorder at same site at datum 4.0 ft higher.

REMARKS.--Records good. Records of chemical analyses for the water years 1967-77 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--52 years, 13,770 ft³/s, 13.75 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 178,000 ft³/s Apr. 18, 1936, gage height, 16.03 ft, present datum; minimum, 1,430 ft³/s Oct. 27, 28, Nov. 1, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1800, 18.6 ft, present datum, Jan. 23, 1925, discharge, 300,000 ft³/s, from rating curve extended above 180,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 30,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 12	2100	35100	11.39	Mar. 12	1400	56700	12.70
Feb. 20	0900	55900	12.66	Apr. 21	0900	*69300	13.30

Minimum discharge, 2,400 ft³/s Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2970	3790	4630	14500	28000	49000	39800	28800	6640	7080	3370	2440
2	2890	3780	4550	14900	29200	44800	40500	26400	6230	7150	3410	2480
3	2840	3780	4590	16000	29400	41400	41300	24300	5850	7080	3420	2480
4	2780	3710	5210	17600	29400	39400	41600	22400	5590	6860	3450	2490
5	2760	3610	6410	19800	29400	38500	41900	20100	5380	6600	3450	2560
6	2720	3590	7570	22400	30200	39600	42700	18100	5220	6500	3480	2670
7	2690	3580	8380	25300	30600	41600	44000	16800	5110	6510	3560	2860
8	2670	3580	9060	27900	30300	43000	45200	16300	5040	6510	3650	3130
9	2620	3770	9570	30500	29800	44500	47100	15900	5000	6340	3730	3450
10	2580	4050	9920	32800	29600	47500	47400	15300	5170	6120	3720	3580
11	2570	4120	10300	34300	29800	52000	45900	14600	5740	5750	3660	3510
12	2570	4200	10800	34900	29900	56000	44000	13600	6600	5330	3580	3390
13	2570	4260	11000	35000	30700	55800	41800	12700	7400	4930	3540	3280
14	2590	4090	10900	34800	32300	52700	39600	12300	8020	4620	3510	3270
15	2610	3910	11100	34100	34400	49600	38200	12000	8150	4400	3470	3320
16	2630	3830	11800	32600	38700	48600	38100	11500	7850	4300	3380	3340
17	3070	3810	12600	30300	46400	49900	42500	10400	7360	4120	3330	3350
18	4300	3800	13500	27500	51600	50900	53500	9340	6790	3930	3250	3380
19	5170	3800	14500	25000	54500	51600	63000	8650	6300	3780	3180	3390
20	5900	3830	15500	23200	55600	51700	67700	8350	5380	3660	3100	3430
21	6420	4000	16300	22500	55200	51400	69100	8480	5400	3520	3040	3460
22	6660	4290	17100	22000	54300	50700	68100	8570	5030	3470	2970	3380
23	6810	4700	17900	22000	54100	49300	66500	8520	4860	3570	2910	3200
24	6830	4980	18600	21900	54800	46800	61700	8520	4660	3500	2840	3090
25	6660	5080	19000	22300	55500	43700	56300	8490	4570	3460	2770	3020
26	6350	5190	18600	22300	55400	41100	50800	8570	4590	3460	2710	3110
27	5740	5260	17600	22400	54200	39400	45100	8680	4680	3460	2640	3430
28	4870	5160	16600	22900	52000	38000	39800	8500	5140	3460	2580	3750
29	4170	4970	15900	23700	---	37300	35300	8140	5760	3450	2520	4020
30	3830	4790	15500	25000	---	37500	31600	7560	6320	3430	2440	4150
31	3760	---	14900	26700	---	38700	---	7030	---	3390	2420	---
TOTAL	123600	125330	379390	787100	1135300	1422000	1430100	403880	176360	149740	99080	96410
MEAN	3987	4178	12250	25390	40550	45870	47670	13190	5379	4830	3196	3214
MAX	6830	5260	19000	35000	55600	56000	69100	28800	8150	7150	3730	4150
MIN	2570	3580	4550	14500	28000	37500	31600	7030	4570	3390	2420	2440
CFSM	.29	.31	.90	1.87	2.98	3.37	3.51	.97	.43	.36	.24	.24
IN.	.34	.34	1.04	2.15	3.11	3.89	3.91	1.12	.48	.41	.27	.26

CAL YR 1982	TOTAL	4830280	MEAN	13230	MAX	60100	MIN	2570	CFSM	.97	IN	13.21
WTR YR 1983	TOTAL	6333790	MEAN	17350	MAX	69100	MIN	2420	CFSM	1.28	IN	17.32

02226010 ALTAHAHA RIVER NEAR GARDI, GA.

LOCATION.--Lat 31°37'24", long 81°45'55", Wayne-Long County line, Hydrologic Unit 03070106, 6 mi northeast of Gardi, 7 mi downstream from Doctortown, and 9 mi upstream from Penholoway Creek.

DRAINAGE AREA.--13,600 mi², approximately.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Discharge obtained from gaging station 02226000, Altamaha River at Doctortown, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
06...	1045	2730	210	212	7.6	7.8	24.5	25.0	6.7	80
NOV										
23...	1215	4600	159	156	--	7.7	18.0	22.0	8.2	86
DEC										
13...	1335	10900	96	94	7.3	7.4	13.0	10.0	7.8	73
JAN										
19...	1200	25600	70	69	--	6.9	7.0	2.0	11.2	92
FEB										
08...	1435	30300	64	64	6.9	6.9	9.5	11.0	9.6	83
MAR										
16...	1230	48200	49	49	7.1	7.1	14.0	16.0	8.1	80
APR										
12...	1430	44300	58	58	7.0	6.9	18.5	24.0	7.2	76
MAY										
25...	1130	8490	115	122	7.5	7.3	25.0	28.0	6.5	79
JUN										
22...	1125	5080	139	137	7.2	7.5	26.5	30.0	6.4	79
JUL										
11...	1145	5850	118	115	7.5	7.4	28.5	32.0	7.2	93
AUG										
17...	1130	3350	175	193	7.3	7.7	29.0	25.5	6.1	80
SEP										
19...	1235	3370	174	169	7.5	7.6	27.5	26.0	6.6	83

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CAC03)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)
OCT							
06...	100	10	20	.7	<20	49	11
NOV							
23...	50	8	19	1.2	40	37	17
DEC							
13...	80	20	22	2.2	40	22	18
JAN							
19...	110	27	19	1.3	--	14	5
FEB							
08...	110	25	24	1.4	40	19	<1
MAR							
16...	110	19	28	2.1	<30	12	2
APR							
12...	120	15	24	1.3	50	15	5
MAY							
25...	100	34	18	2.3	20	27	24
JUN							
22...	80	24	13	1.7	<20	32	18
JUL							
11...	70	19	--	1.2	<20	28	18
AUG							
17...	100	15	--	2.0	<20	38	16
SEP							
19...	65	18	--	.9	20	37	22

02226010 ALTAMAHA RIVER NEAR GARDI, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
OCT						
06...	.32	.020	.30	.050	8.0	1.8
NOV						
23...	.33	.060	.40	.070	--	1.6
DEC						
13...	.30	.120	.40	.090	7.1	1.5
JAN						
19...	.24	.040	.60	.060	11	2.3
FEB						
08...	.07	.030	.30	.050	6.7	3.4
MAR						
16...	.09	.030	.70	.070	12	1.4
APR						
12...	.20	.040	.30	.060	7.0	1.0
MAY						
25...	.44	.070	.40	.080	5.3	.80
JUN						
22...	.26	1.04	1.40	.110	5.1	<.50
JUL						
11...	.30	.040	--	.080	7.2	1.6
AUG						
17...	.23	.050	--	.090	12	1.3
SEP						
19...	.49	.050	--	.090	7.0	1.5

ALTAMAHA RIVER BASIN

02226100 PENHOLWAY CREEK NEAR JESUP, GA.

LOCATION.--Lat 31°34'00", long 81°50'18", Wayne County, Hydrologic Unit 03070106, on downstream side of bridge on U.S. Highway 341, 4 mi southeast of Jesup, and about 9.5 mi upstream from mouth.
DRAINAGE AREA.--210 mi², approximately.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 19.09 ft, National Geodetic Vertical Datum of 1929. Since May 6, 1966, auxiliary water-stage recorder at highway bridge, 2.5 mi downstream.

REMARKS.--Records good except those below 20 ft³/s, which are fair.AVERAGE DISCHARGE.--25 years, 201 ft³/s, 13.00 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,420 ft³/s Sept. 30, 1979, gage height, 14.96 ft; no flow at times most years.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 18	0300	1340	11.54	Apr. 17	2000	1100	11.18
Mar. 9	2000	1320	11.52	Apr. 25	2000	1450	11.71
Mar. 19	0300	*1960	12.35				

Minimum daily discharge, no flow on several days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	.18	.03	58	433	380	612	374	.11	127	171	24
2	32	.24	.02	88	454	427	588	295	.07	235	268	53
3	26	.15	.02	126	568	438	533	228	.04	338	412	49
4	21	.23	.02	141	630	412	466	200	.01	376	641	41
5	17	.24	.51	148	623	366	395	181	.01	336	811	34
6	15	.17	1.1	149	607	343	336	159	.00	244	749	49
7	14	.16	1.9	141	589	548	286	139	.19	226	659	66
8	11	.12	1.9	127	560	1250	256	116	.78	254	530	80
9	9.0	.11	1.8	125	524	1310	271	93	1.3	194	424	108
10	6.6	.09	2.1	171	477	1210	273	74	.34	131	408	116
11	6.0	.13	2.3	210	427	1030	562	58	.24	103	344	113
12	6.0	.07	12	233	372	348	728	45	.20	143	308	104
13	5.4	.08	21	242	367	687	709	33	.15	119	311	93
14	5.4	.05	18	235	629	574	639	24	.10	75	288	84
15	3.8	.03	19	210	983	490	653	16	.08	57	256	75
16	2.4	.01	25	174	1070	484	958	11	.06	46	214	66
17	1.6	.00	26	147	1230	938	1080	8.3	.03	30	169	57
18	1.2	.00	21	126	1320	1800	1060	7.2	.03	17	126	48
19	.75	.00	18	109	1200	1930	952	5.0	.21	11	93	39
20	1.1	.00	17	99	1040	1770	777	4.0	.42	8.8	69	31
21	.55	.02	15	163	882	1570	607	2.5	.42	16	51	29
22	.40	.02	13	305	745	1370	468	2.0	1.6	9.0	37	27
23	.40	.02	12	409	652	1170	559	3.4	8.2	123	25	23
24	.97	.00	12	532	531	1000	1290	2.8	9.7	271	16	22
25	1.1	.00	10	606	527	874	1430	2.3	2.7	295	11	17
26	1.0	.02	9.3	580	472	766	1380	1.8	.56	350	19	13
27	.32	.09	8.5	517	411	717	1150	1.5	.11	333	14	9.0
28	.23	.08	8.5	500	364	726	886	1.2	.02	236	9.6	6.5
29	.18	.04	8.1	488	---	715	652	.84	1.6	144	5.0	4.8
30	.13	.03	23	477	---	660	485	.50	21	154	16	3.0
31	.20	---	46	459	---	625	---	.31	---	182	16	---
TOTAL	233.73	2.38	354.10	8095	18737	27528	21046	2089.65	50.28	5183.8	7580.6	1484.3
MEAN	7.54	.079	11.4	261	669	888	702	67.4	1.68	167	245	49.5
MAX	43	.24	46	606	1320	1930	1430	374	21	376	811	116
MIN	.13	.00	.02	58	364	343	256	.31	.008	8.8	5.0	3.0
CFSM	.04	.000	.05	1.24	3.19	4.23	3.34	.32	.008	.80	1.17	.24
IN.	.04	.00	.06	1.43	3.32	4.88	3.73	.37	.01	.92	1.34	.26

CAL YR 1982 TOTAL 57429.71 MEAN 157 MAX 1380 MIN .00 CFSM .75 IN 10.17
WTR YR 1983 TOTAL 92384.84 MEAN 253 MAX 1930 MIN .00 CFSM 1.21 IN 16.37

02226100 PENHOLOWAY CREEK NEAR JESUP, GA.--Continued

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

		DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)		
		MAR 16...	1100	480	60	55	4.3	3.9	15.5	7.8	79		
		AUG 17...	1000	174	65	53	3.9	4.0	23.0	5.5	64		
		DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	HARD- NESS (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)
		MAR 16...	110	4.0	5	.9	.5	3.2	59	.7	.2	<1.0	20
		AUG 17...	300	2.6	5	1.2	.5	3.5	58	.7	.3	<1.0	30
		DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 130 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
		MAR 16...	7.9	<.10	5.8	83	108	.11	<.10	<.10	.050	.050	.55
		AUG 17...	7.7	<.10	8.6	133	62.5	.18	<.10	<.10	.090	.130	1.5
		DATE	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM DIS- SOLVED (UG/L AS CD)	
		MAR 16...	.55	.60	.60	.020	.020	30	600	1	1	<1	
		AUG 17...	1.1	1.60	1.2	.040	.060	51	900	1	1	1	
		DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, DIS- SOLVED (UG/L AS ZN)	
		MAR 16...	10	8	730	14	2	11	.1	.3	<1	12	
		AUG 17...	10	23	1200	6	2	15	1.0	.2	<1	21	

ALTAMAHA RIVER BASIN

02226100 PENHOLLOWAY CREEK NEAR JESUP, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT					
05...	0935	17	21.0	40	1.8
JAN					
05...	0920	147	9.5	22	8.7
MAR					
11...	1000	1050	11.0	6	17
APR					
13...	1530	722	18.5	13	25
MAY					
17...	0900	7.8	20.5	21	.44
JUL					
14...	0755	79	23.5	10	2.1
AUG					
10...	0830	421	26.0	9	10
31...	0835	17	24.0	20	.92
SEP					
20...	0935	32	23.0	19	1.6

ALTAMAHA RIVER BASIN

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02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.
(National stream-quality accounting network station)
(Radiochemical program station)

LOCATION.--Lat 31°25'37", long 81°36'20", Glynn-McIntosh County line, Hydrologic Unit 03070106, at Seaboard Coast Line Railroad bridge, 3 mi northeast of Everett City, and 15 mi northwest of Brunswick.

DRAINAGE AREA.--14,000 mi², 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.--Prior to 1978, water-quality samples for the National stream-quality accounting network, Radiochemical program, and National Pesticide water monitoring program were collected at, and published for, the Altamaha River at Doctortown, Ga. (station number 02226000). Discharge obtained from gaging station 02226000, Altamaha River at Doctortown, Ga.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 321 micromhos Oct. 7, 1981; minimum recorded, 32 micromhos Apr. 9, 1973.

pH: Maximum recorded, 8.9 units Oct. 21, 22, 1971; minimum recorded, 5.3 units Dec. 12, 1976.

WATER TEMPERATURE: Maximum recorded, 33.5°C July 16-18, 1981; minimum recorded, 3.0°C Jan. 10, 11, 1970, Jan. 20, 21, 1977.

DISSOLVED OXYGEN: Maximum recorded, 12.3 mg/L Feb. 3, 10, 11, 1977; minimum recorded, 2.7 mg/L Oct. 8, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum recorded, 241 micromhos Sept. 5; minimum, 45 micromhos Mar. 18, 26.

pH: Maximum, 7.8 units Nov. 11-14, 22; minimum, 6.5 units Jan. 10, 11, Feb. 20-23.

WATER TEMPERATURE: Maximum recorded, 32.0°C July 19, 20, Aug. 24, 25, 29; minimum, 6.5°C Jan. 20, 21.

DISSOLVED OXYGEN: Maximum, 11.5 mg/L Jan. 21, 22; minimum recorded, 4.9 mg/L Sept. 4.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANECUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
06...	0805	2760	195	200	7.5	7.7	24.5	27.0	6.3	75
09...	0810	2760	195	200	7.5	7.5	24.5	--	6.3	75
NOV										
23...	1025	4260	159	157	7.7	7.6	17.5	21.5	8.4	87
DEC										
13...	1015	10900	85	90	6.9	7.2	14.0	--	7.4	71
JAN										
19...	1000	27700	67	61	6.8	6.7	7.0	--	10.2	83
19...	1005	27700	67	66	6.8	6.8	7.0	3.0	10.2	83
FEB										
03...	1140	30700	65	63	6.8	6.8	10.0	10.0	9.0	79
MAR										
15...	0855	50000	54	54	6.9	7.0	14.5	17.0	7.8	78
16...	0900	50000	54	54	6.9	6.5	14.5	--	7.8	78
APR										
12...	1115	46000	60	60	6.9	6.9	18.0	22.5	7.2	75
MAY										
25...	0900	8540	120	120	7.2	7.0	24.0	--	6.4	77
25...	0905	8540	120	126	7.2	7.3	24.0	26.0	6.4	77
JUN										
22...	0905	5450	130	130	7.1	7.4	25.0	29.5	6.8	82
30...	1115	5760	130	134	7.4	7.0	28.5	--	5.9	76
JUL										
11...	0900	6170	110	109	7.2	7.3	28.5	28.0	5.9	76
AUG										
17...	0800	3410	160	160	7.3	7.1	28.5	--	5.8	75
17...	0805	3410	160	167	7.3	7.6	28.5	23.0	5.8	75
SEP										
19...	1000	3380	190	182	7.3	7.6	27.0	26.0	6.3	78

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	COLI- FORM, FECAL, 0.7 UM-MF (CCLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (CCLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)
OCT											
06...	100	10	--	.2	<35	--	--	--	--	--	--
06...	--	--	2.0	--	--	110	390	45	0	14	2.3
NOV											
23...	40	8	--	1.3	<30	--	--	--	--	--	--
DEC											
13...	100	17	--	1.2	330	--	--	--	--	--	--
JAN											
19...	--	--	22	--	--	52	93	17	3	4.7	1.2
19...	120	28	--	2.1	--	--	--	--	--	--	--
FEB											
08...	130	22	--	1.0	40	--	--	--	--	--	--
MAR											
16...	140	17	--	2.2	<30	--	--	--	--	--	--
16...	--	--	16	--	--	63	82	16	3	4.7	1.0
APR											
12...	140	15	--	1.3	70	--	--	--	--	--	--
MAY											
25...	--	--	27	--	--	28	360	29	0	8.6	1.9
25...	140	31	--	1.3	20	--	--	--	--	--	--
JUN											
22...	80	25	--	.9	20	--	--	--	--	--	--
30...	--	--	34	--	--	K26	580	31	0	9.6	1.8
JUL											
11...	120	20	--	1.5	50	--	--	--	--	--	--
AUG											
17...	--	--	9.9	--	--	K15	590	33	2	10	2.0
17...	110	13	--	1.6	<20	--	--	--	--	--	--
SEP											
19...	80	14	--	.8	<20	--	--	--	--	--	--

DATE	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CAC03)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)
OCT										
06...	--	--	--	--	41	2.5	--	24	--	--
06...	23	51	1.6	2.6	48	2.9	24	17	.20	13
NOV										
23...	--	--	--	--	39	1.5	--	11	--	--
DEC										
13...	--	--	--	--	20	4.9	--	20	--	--
JAN										
19...	6.4	42	.7	2.0	14	4.3	13	6.7	<.10	12
19...	--	--	--	--	12	3.7	--	9.3	--	--
FEB										
08...	--	--	--	--	12	3.7	--	7.5	--	--
MAR										
16...	--	--	--	--	12	2.9	--	16	--	--
16...	4.3	35	.5	1.5	13	3.2	13	5.6	<.10	5.5
APR										
12...	--	--	--	--	14	3.4	--	5.6	--	--
MAY										
25...	13	47	1.1	1.8	30	3.7	11	10	.10	12
25...	--	--	--	--	28	3.4	--	12	--	--
JUN										
22...	--	--	--	--	29	4.5	--	12	--	--
30...	13	45	1.1	2.1	35	2.7	14	10	.10	11
JUL										
11...	--	--	--	--	27	3.3	--	9.0	--	--
AUG										
17...	18	52	1.4	2.0	31	3.0	25	14	<.10	11
17...	--	--	--	--	32	3.1	--	18	--	--
SEP										
19...	--	--	--	--	36	3.5	--	15	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT 06...	140	126	1040	.19
JAN 19...	62	55	4640	.08
MAR 16...	62	44	8370	.08
MAY 25...	113	77	2610	.15
JUN 30...	91	83	1420	.12
AUG 17...	134	101	1230	.18

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHOPHOS- PHATE DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 06...	.24	--	.020	--	--	.070	--	--	9.0
06...	--	.26	--	.040	1.10	.080	.040	.030	--
NOV 23...	.33	--	.040	--	--	.070	--	--	--
DEC 13...	.21	--	<.020	--	--	.070	--	--	6.0
JAN 19...	--	.13	--	.020	.60	.050	.050	.020	--
19...	.16	--	.020	--	--	.050	--	--	10
FEB 08...	.07	--	.060	--	--	.050	--	--	7.0
MAR 16...	.07	--	.030	--	--	.090	--	--	14
16...	--	<.10	--	.020	.60	.050	.020	.040	--
APR 12...	.13	--	.050	--	--	.070	--	--	7.0
MAY 25...	--	.40	--	.050	.50	.070	.040	.040	--
25...	.40	--	.080	--	--	.070	--	--	6.7
JUN 22...	.26	--	.020	--	--	.050	--	--	4.9
30...	--	.40	--	.030	.40	.080	.030	.010	--
JUL 11...	.28	--	.040	--	--	.080	--	--	9.4
AUG 17...	--	.14	--	.010	.60	--	.030	.030	--
17...	.24	--	.020	--	--	.080	--	--	15
SEP 19...	.45	--	.040	--	--	.100	--	--	7.5

ALTAMAHA RIVER BASIN

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS SA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
OCT 06...	--	1	40	1	1	<1	3	3	340	<1
JAN 19...	<10	1	33	<1	<1	1	<3	7	400	22
MAY 25...	20	1	39	<1	<1	<1	<3	2	290	<1
AUG 17...	90	1	58	<1	<1	<1	<3	1	370	3

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 06...	4	51	<.1	10	1	<1	<1	62	6.0	5
JAN 19...	<4	17	<.1	<10	1	<1	<1	23	<6.0	5
MAY 25...	<4	38	<.1	<10	<1	<1	<1	41	<6.0	5
AUG 17...	<4	58	<.1	<10	1	<1	<1	55	<6.0	7

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 06...	0815	2760	24.5	12	89	90
JAN 19...	1010	27700	7.0	9	673	67
MAR 16...	0905	50000	14.5	22	2970	45
MAY 25...	0910	8540	24.0	30	692	91
JUN 30...	1120	5760	28.5	36	560	89

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT)	GROSS ALPHA, TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137)	GROSS BETA, TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90)	GROSS BETA, TOTAL (PCI/L AS SR/ YT-90)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L)
OCT 06...	0800	2760	--	<2.4	<.7	2.9	.7	2.8	.7	.06	.04
MAY 25...	0915	8540	.9	<1.8	1.3	2.9	<1.5	2.8	<1.3	.06	.04

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1962 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	177	172	169	162	142	136	69	68	63	59	53	49
2	182	177	178	170	146	142	69	67	60	58	54	50
3	187	182	185	178	149	146	69	67	60	57	55	50
4	193	187	190	185	150	147	70	67	63	55	55	51
5	196	192	192	190	150	144	67	65	64	58	56	53
6	199	196	192	186	145	127	66	62	60	55	55	53
7	201	199	185	183	125	115	67	62	60	56	56	52
8	204	200	183	182	113	107	66	61	66	56	56	51
9	210	204	183	182	107	102	66	63	64	56	56	52
10	217	210	184	179	103	94	64	61	69	58	59	53
11	217	214	180	177	94	88	62	57	62	57	61	56
12	217	215	177	175	90	87	61	59	64	60	65	52
13	215	212	178	175	94	89	65	58	62	60	57	50
14	212	210	178	176	93	88	64	58	60	58	55	48
15	210	206	178	176	88	84	63	57	64	55	52	47
16	206	204	180	178	85	79	63	60	61	56	52	47
17	206	204	179	164	82	78	65	57	59	55	52	47
18	204	191	165	157	79	75	65	60	58	52	49	45
19	191	187	159	156	75	72	70	62	56	51	52	47
20	166	147	157	155	74	72	66	64	54	49	53	49
21	148	139	155	151	73	68	67	65	53	49	55	49
22	139	130	152	148	74	68	65	63	51	47	57	50
23	129	125	157	151	71	66	66	63	51	46	55	50
24	---	---	157	151	68	64	72	60	50	46	54	50
25	131	124	160	152	66	63	70	63	51	46	55	46
26	134	130	154	148	66	62	71	63	51	48	51	45
27	137	134	149	144	66	63	68	66	52	49	51	47
28	142	137	144	142	68	65	67	65	53	49	52	48
29	153	141	142	138	69	66	70	63	---	---	54	50
30	155	152	142	137	72	69	67	61	---	---	56	52
31	161	154	---	---	72	70	65	60	---	---	57	53
MONTH	217	124	192	137	150	62	72	57	69	46	65	45
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	58	53	59	55	124	119	129	107	144	141	229	223
2	57	53	62	58	126	124	117	113	145	134	225	221
3	57	53	66	61	127	125	117	114	136	127	227	225
4	58	54	70	65	128	124	116	112	131	126	234	226
5	58	54	73	69	130	127	115	110	129	124	241	234
6	57	54	77	72	133	129	116	111	128	123	240	230
7	55	53	80	75	132	129	115	112	128	122	238	164
8	56	53	84	79	132	129	112	108	136	126	---	---
9	58	55	86	82	131	129	112	108	141	136	---	---
10	59	56	88	85	137	129	109	106	142	136	---	---
11	59	55	90	86	141	137	111	107	149	142	---	---
12	62	58	92	88	141	137	113	110	155	149	---	---
13	65	61	94	90	136	128	119	111	162	154	---	---
14	66	62	94	90	128	119	127	118	163	160	---	---
15	67	62	97	93	120	113	132	127	---	---	---	---
16	67	62	99	95	116	112	137	133	---	---	---	---
17	69	63	101	98	115	110	141	138	168	166	---	---
18	68	65	107	101	116	111	146	140	---	---	---	---
19	67	61	111	107	117	114	150	146	---	---	188	186
20	65	59	113	108	118	114	152	149	---	---	188	176
21	63	58	117	112	128	117	152	148	---	---	177	174
22	63	57	122	117	133	121	154	149	---	---	176	173
23	62	57	123	120	139	133	151	146	---	---	175	172
24	62	60	122	119	139	129	149	141	198	193	181	176
25	61	53	124	120	133	128	146	141	202	197	182	181
26	60	55	122	117	---	---	145	142	206	198	187	183
27	60	55	119	115	---	---	144	141	212	199	188	183
28	60	54	118	113	---	---	153	142	219	211	184	179
29	57	52	117	112	---	---	156	152	219	205	179	176
30	57	53	117	115	138	129	---	---	220	215	177	167
31	---	---	121	116	---	---	---	---	224	220	---	---
MONTH	69	52	124	55	141	110	156	106	224	122	241	164

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.4	7.3	7.3	7.2	7.5	7.4	6.8	6.7	6.8	6.8	6.8	6.7
2	7.4	7.3	7.4	7.2	7.5	7.4	6.8	6.8	6.8	6.7	6.8	6.7
3	7.4	7.4	7.4	7.3	7.5	7.4	6.8	6.8	6.8	6.7	6.8	6.7
4	7.5	7.4	7.4	7.3	7.6	7.5	6.8	6.7	6.8	6.7	6.8	6.7
5	7.5	7.4	7.4	7.4	7.6	7.5	6.7	6.7	6.8	6.7	6.9	6.7
6	7.5	7.4	7.5	7.4	7.5	7.4	6.7	6.6	6.8	6.7	6.9	6.8
7	7.5	7.4	7.5	7.4	7.4	7.2	6.6	6.6	6.8	6.7	6.9	6.8
8	7.5	7.4	7.5	7.4	7.3	7.2	6.6	6.5	6.8	6.7	6.9	6.7
9	7.5	7.4	7.5	7.4	7.1	7.1	6.6	6.6	6.8	6.8	6.8	6.7
10	7.5	7.4	7.5	7.4	7.1	7.0	6.6	6.5	6.8	6.8	6.8	6.7
11	7.5	7.4	7.8	7.4	7.0	7.0	6.6	6.5	6.8	6.8	6.9	6.8
12	7.5	7.4	7.8	7.6	7.0	6.9	6.6	6.6	6.9	6.8	6.9	6.8
13	7.5	7.4	7.8	7.6	7.0	6.9	6.6	6.5	6.9	6.9	6.9	6.8
14	7.5	7.4	7.8	7.7	7.0	6.9	6.7	6.6	6.9	6.8	6.8	6.8
15	7.6	7.5	7.7	7.6	6.9	6.9	6.7	6.6	6.9	6.8	6.8	6.7
16	7.6	7.5	7.7	7.6	6.9	6.9	6.7	6.7	6.9	6.8	6.9	6.7
17	7.7	7.5	7.7	7.6	6.9	6.8	6.7	6.7	6.8	6.7	6.9	6.7
18	7.7	7.5	7.7	7.6	6.9	6.8	6.8	6.7	6.8	6.6	6.8	6.6
19	7.7	7.5	7.7	7.6	6.8	6.8	6.8	6.7	6.7	6.6	6.8	6.7
20	7.5	7.4	7.7	7.6	6.8	6.8	6.8	6.8	6.6	6.5	6.8	6.7
21	7.4	7.3	7.7	7.6	6.8	6.8	6.9	6.8	6.6	6.5	6.8	6.7
22	7.3	7.2	7.8	7.6	6.8	6.8	6.8	6.7	6.6	6.5	6.8	6.8
23	7.2	7.2	7.7	7.6	6.8	6.7	6.8	6.7	6.6	6.5	6.9	6.8
24	---	---	7.6	7.6	6.8	6.7	6.8	6.7	6.6	6.6	6.9	6.8
25	7.1	7.1	7.6	7.6	6.7	6.7	6.8	6.7	6.6	6.6	6.9	6.8
26	7.2	7.1	7.6	7.5	6.7	6.7	6.8	6.8	6.7	6.6	6.9	6.7
27	7.2	7.1	7.6	7.5	6.7	6.7	6.8	6.7	6.7	6.7	6.9	6.7
28	7.2	7.1	7.5	7.5	6.7	6.7	6.8	6.7	6.8	6.7	6.9	6.8
29	7.2	7.2	7.5	7.4	6.7	6.7	6.8	6.7	---	---	6.9	6.8
30	7.2	7.2	7.5	7.4	6.8	6.7	6.8	6.7	---	---	7.0	6.9
31	7.3	7.2	---	---	6.8	6.7	6.8	6.8	---	---	7.0	6.9
MONTH	7.7	7.1	7.8	7.2	7.6	6.7	6.9	6.5	6.9	6.5	7.0	6.6
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.0	6.9	6.9	6.8	7.1	7.0	7.0	6.8	6.9	6.8	7.2	7.0
2	7.0	7.0	6.9	6.9	7.1	7.1	6.8	6.7	6.9	6.8	7.3	7.1
3	7.0	7.0	6.9	6.9	7.2	7.1	6.7	6.7	6.8	6.7	7.3	7.0
4	7.0	6.9	6.9	6.8	7.2	7.1	6.7	6.6	6.7	6.7	7.1	7.0
5	7.0	6.9	6.9	6.8	7.1	7.1	6.7	6.6	6.7	6.6	7.1	7.0
6	7.0	6.9	6.9	6.9	7.1	7.1	6.7	6.6	6.6	6.6	7.2	7.0
7	7.0	6.9	6.9	6.9	7.1	7.1	6.8	6.6	6.6	6.6	7.3	7.1
8	6.9	6.9	6.8	6.8	7.0	7.0	6.8	6.7	6.7	6.6	---	---
9	6.9	6.9	6.8	6.7	7.0	6.9	6.8	6.7	6.8	6.7	---	---
10	6.9	6.8	6.8	6.8	7.0	6.9	6.8	6.7	6.8	6.7	---	---
11	6.9	6.8	6.9	6.8	7.0	6.9	6.9	6.8	6.8	6.7	---	---
12	6.9	6.8	6.9	6.9	7.0	7.0	6.9	6.8	6.8	6.6	---	---
13	6.9	6.8	6.9	6.9	7.0	6.9	6.9	6.8	6.9	6.8	---	---
14	6.9	6.8	7.0	6.9	6.9	6.8	7.0	6.9	6.9	6.8	---	---
15	6.9	6.8	7.0	7.0	6.8	6.8	7.0	6.9	---	---	---	---
16	6.9	6.9	7.0	6.9	6.8	6.7	7.1	7.0	---	---	---	---
17	7.0	6.9	7.0	7.0	6.7	6.7	7.1	7.0	---	---	---	---
18	7.0	6.9	7.1	7.0	6.7	6.7	7.1	6.9	---	---	---	---
19	6.9	6.9	7.1	7.0	6.8	6.7	7.0	6.9	---	---	7.2	7.1
20	6.9	6.9	7.1	7.0	6.8	6.7	7.0	6.9	---	---	7.2	7.0
21	6.9	6.9	7.1	7.1	6.8	6.7	7.0	6.9	---	---	7.2	7.1
22	6.9	6.9	7.2	7.1	6.9	6.8	7.0	6.9	---	---	7.3	7.1
23	6.9	6.9	7.1	7.1	6.9	6.8	7.0	6.9	---	---	7.4	7.2
24	6.9	6.8	7.1	7.1	6.9	6.8	7.0	6.8	7.1	7.0	7.5	7.2
25	6.9	6.8	7.1	7.1	6.9	6.8	6.8	6.7	7.2	7.0	7.5	7.2
26	6.8	6.8	7.1	7.1	---	---	6.8	6.7	7.2	7.1	7.4	7.2
27	6.8	6.8	7.1	7.1	---	---	6.8	6.8	7.2	7.1	7.4	7.2
28	6.9	6.8	7.1	7.1	---	---	6.8	6.7	7.1	7.1	7.4	7.2
29	6.8	6.8	7.1	7.0	---	---	6.9	6.8	7.2	7.1	7.5	7.2
30	6.9	6.8	7.1	7.0	7.0	6.9	---	---	7.2	7.1	7.4	7.2
31	---	---	7.1	7.0	---	---	---	---	7.1	7.0	---	---
MONTH	7.0	6.8	7.2	6.7	7.2	6.7	7.1	6.6	7.2	6.6	7.5	7.0
YEAR	7.8	6.5										

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		
1	7.4	6.6	8.5	8.2	8.3	7.7	8.5	7.6	10.3	9.7	9.3	8.6
2	7.3	6.5	8.6	8.3	8.2	7.6	8.7	8.1	9.8	9.3	9.5	8.4
3	7.3	6.6	8.7	8.4	8.1	7.4	8.8	8.1	9.3	8.8	9.3	8.3
4	7.6	6.5	8.6	8.3	8.1	7.2	8.5	8.1	9.5	8.2	9.2	8.3
5	7.2	6.5	8.6	8.3	8.0	7.4	8.8	8.4	9.5	8.6	9.0	8.3
6	7.1	6.3	8.8	8.3	7.8	7.4	8.9	8.3	9.6	9.0	8.5	7.2
7	7.2	6.4	9.0	8.7	8.0	7.7	9.1	8.2	9.1	8.4	8.3	7.3
8	7.1	6.4	9.1	8.9	8.1	8.0	9.3	8.6	9.3	8.1	8.0	7.1
9	7.0	6.3	9.2	9.0	8.2	7.9	9.3	8.6	9.5	8.4	7.9	7.2
10	6.5	6.0	9.2	9.0	8.1	7.9	9.4	9.0	9.6	8.9	7.8	7.0
11	6.6	5.9	9.5	8.7	8.3	8.0	9.6	9.1	9.4	8.9	8.3	7.1
12	6.2	5.8	9.2	8.6	8.3	7.8	9.6	9.2	9.4	8.9	8.8	7.2
13	6.4	5.7	9.2	8.1	8.2	7.5	10.1	9.1	9.8	9.3	8.9	7.3
14	6.8	6.0	9.1	8.0	8.9	7.8	10.5	9.5	10.1	9.5	8.9	7.4
15	7.2	5.3	9.2	8.2	9.3	8.8	10.7	10.2	10.0	9.2	8.7	7.6
16	7.4	6.5	9.1	8.0	9.0	8.4	10.8	9.9	9.9	9.3	8.3	7.6
17	7.8	6.8	9.1	8.4	8.8	8.0	10.9	10.0	9.6	8.8	8.4	7.4
18	8.1	7.1	9.1	8.4	9.3	8.0	11.0	10.0	9.5	8.7	8.2	7.3
19	7.9	7.2	9.0	8.3	9.4	8.3	11.1	10.2	9.5	8.6	8.3	7.2
20	7.8	7.4	8.9	8.2	9.0	8.3	11.1	10.8	9.3	8.7	8.4	7.3
21	7.9	7.4	9.0	8.1	9.5	8.9	11.5	11.0	9.1	8.6	8.1	7.3
22	8.0	7.6	8.9	8.0	10.0	8.7	11.5	11.0	9.1	8.7	8.6	7.4
23	7.8	7.7	8.7	8.0	10.3	9.3	11.3	10.7	8.8	8.4	9.0	7.6
24	---	---	8.6	8.0	10.1	9.5	11.3	10.4	8.9	8.4	---	---
25	8.1	7.3	8.4	8.0	9.7	9.1	11.2	10.4	9.0	8.3	---	---
26	8.2	7.9	8.4	8.1	9.5	8.9	11.1	10.1	9.0	8.2	---	---
27	8.4	8.0	8.5	8.2	9.0	8.6	10.9	10.5	9.2	8.6	---	---
28	8.2	8.0	8.4	8.2	8.7	8.0	10.8	10.2	9.4	8.8	8.7	8.2
29	8.3	8.0	8.4	7.9	8.2	7.6	10.9	10.1	---	---	9.1	7.9
30	8.2	8.0	8.3	7.8	8.0	7.7	10.8	10.2	---	---	9.0	8.2
31	8.3	8.0	---	---	8.1	7.7	10.5	10.0	---	---	8.8	8.1
MONTH	8.4	5.7	9.5	7.8	10.3	7.2	11.5	7.6	10.3	8.1	9.5	7.0
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		
1	8.6	7.8	7.1	6.4	7.1	6.4	6.2	5.5	6.5	6.3	5.4	5.0
2	8.4	7.3	7.0	6.2	7.7	6.5	6.3	5.4	6.9	6.3	5.2	5.0
3	8.8	7.0	6.9	6.3	7.5	6.8	6.2	5.6	6.5	5.1	5.5	5.1
4	8.7	7.4	6.6	6.0	7.5	6.9	6.3	5.1	6.4	6.0	5.6	4.9
5	8.2	7.5	6.5	5.9	7.5	6.5	6.0	5.3	6.7	6.1	5.7	5.0
6	7.8	7.3	6.7	5.9	7.4	6.7	6.6	6.0	6.3	5.7	5.9	5.1
7	7.4	6.7	6.8	6.0	7.1	6.7	6.5	6.0	6.0	5.5	6.5	5.3
8	6.9	6.5	6.7	6.2	7.1	6.3	6.2	5.8	6.0	5.3	---	---
9	6.6	6.3	6.6	5.7	7.4	6.4	6.2	5.8	5.9	5.2	---	---
10	7.2	6.1	6.1	5.7	8.3	6.8	6.1	5.7	6.0	5.3	---	---
11	7.5	6.5	6.4	5.8	7.7	6.8	6.3	5.8	6.5	5.3	---	---
12	7.5	6.7	6.6	6.0	7.4	7.0	6.1	5.7	6.2	5.2	---	---
13	7.3	6.6	6.7	5.1	7.3	6.9	6.2	5.8	6.0	5.1	---	---
14	7.1	6.4	6.8	6.1	7.3	6.7	6.0	5.5	5.4	5.2	---	---
15	6.8	6.1	6.9	6.3	8.0	6.7	6.1	5.6	---	---	---	---
16	7.0	6.0	6.8	6.3	7.3	6.7	6.2	5.7	---	---	---	---
17	7.2	6.3	6.8	6.5	7.2	6.6	6.1	5.6	---	---	---	---
18	7.1	6.6	7.2	6.7	7.3	6.6	6.1	5.6	---	---	---	---
19	7.2	6.5	7.3	6.8	7.2	6.7	6.0	5.4	---	---	6.3	5.7
20	7.6	6.7	7.0	6.5	7.1	6.7	6.0	5.2	---	---	6.3	5.6
21	7.8	6.9	7.2	6.5	7.4	6.7	5.7	5.1	---	---	6.3	5.5
22	7.9	7.2	7.2	6.6	7.1	6.5	6.0	5.1	---	---	5.6	5.6
23	7.8	7.2	7.0	5.6	6.7	6.3	6.3	5.5	---	---	6.9	5.7
24	7.4	7.2	7.1	6.5	7.0	6.2	5.9	5.4	6.9	5.5	7.0	5.8
25	7.5	6.6	7.1	6.4	7.1	6.3	6.0	5.1	7.1	5.8	7.0	5.9
26	7.4	6.5	7.0	6.4	---	---	6.0	5.1	6.4	5.8	6.8	5.8
27	7.3	6.6	7.1	6.3	---	---	6.1	5.1	6.3	5.3	7.0	5.8
28	7.4	6.6	7.1	6.4	---	---	6.2	5.3	6.1	5.2	6.9	6.0
29	7.2	6.5	7.2	6.4	---	---	6.0	5.3	6.2	5.2	6.7	6.0
30	7.1	6.4	7.1	6.5	5.9	5.4	---	---	5.6	5.2	6.9	6.0
31	---	---	7.1	6.4	---	---	---	---	5.4	5.0	---	---
MONTH	8.8	6.0	7.3	5.7	8.3	5.4	6.6	5.1	7.1	5.0	7.0	4.9
YEAR	11.5	4.9										

ALTAMAHA RIVER BASIN

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RESERVOIRS IN ALTAMAHA RIVER BASIN

02210000 LLOYD SHOALS RESERVOIR.--Lat 33°19'13", long 83°50'20", Butts County, Hydrologic Unit 03070103, on Ocmulgee River, 1 mi upstream from bridge on State Highway 16, and 7 mi east of Jackson. DRAINAGE AREA, 1,400 mi². PERIOD OF RECORD, October 1929 to current year. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Co.). Reservoir is formed by concrete gravity dam. Spillway (crest elevation, 528.0 and 525.0 ft) is equipped with flashboards 308.5 ft wide by 2 ft high and 420 ft wide by 5 ft high. Dam completed in 1910. Total capacity at elevation 530.0 ft, top of flashboards, is 107,000 acre-ft, of which 78,000 acre-ft 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 1982 TO SEPTEMBER 1983

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	528.0	97500	-	-
Oct. 31.....	527.7	96200	-1300	-21
Nov. 30.....	528.8	101000	+4800	+81
Dec. 31.....	528.0	97500	-3500	-57
CAL YR 1982	-	-	-8500	-12
Jan. 31.....	528.5	99800	+2300	+37
Feb. 28.....	528.2	98400	-1400	-25
Mar. 31.....	527.9	97000	-1400	-23
Apr. 30.....	528.6	100000	+3000	+50
May 31.....	529.4	104000	+4000	+65
June 30.....	529.5	104000	0	0
July 31.....	528.3	98800	-5200	-85
Aug. 31.....	527.1	93400	-5400	-88
Sept. 30.....	528.8	101000	+7600	+128
WTR YR 1983	-	-	+3500	+5

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

02220450 LAKE OCONEE.--Lat 33°21'00", long 83°09'28", Putnam County, Hydrologic Unit 03070101, on Oconee River, 1.5 mi upstream from bridge on State Highway 16, and 13.3 mi east of Eatonton. DRAINAGE AREA, 1,820 mi². PERIOD OF RECORD, January 1979 to current year. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Co.). Reservoir is formed by concrete gravity dam. Spillway (crest elevation, 435.6 ft) is equipped with five radial gates 42 ft wide by 44 ft high. Storage began in January 1979; water in reservoir first reached minimum pool elevation in July 1979. Capacity curve and monthend elevations furnished by Georgia Power Company.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	435.0	360000	-	-
Oct. 31.....	435.3	365400	+5400	+88
Nov. 30.....	435.3	365400	0	0
Dec. 31.....	435.5	369000	+3600	+59
CAL YR 1982	-	-	+1800	+2
Jan. 31.....	435.6	370800	+1800	+29
Feb. 28.....	435.3	365400	-5400	-97
Mar. 31.....	435.3	365400	0	0
Apr. 30.....	435.6	370800	+5400	+91
May 31.....	435.2	363600	-7200	-117
June 30.....	435.3	365400	+1800	+30
July 31.....	434.9	358200	-7200	-117
Aug. 31.....	435.1	361800	+3600	+59
Sept. 30.....	435.4	367200	+5400	+91
WTR YR 1983	-	-	+7200	+10

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

ALTAMAHA RIVER BASIN

RESERVOIRS IN ALTAMAHA RIVER BASIN--Continued

02222500 SINCLAIR RESERVOIR.--Lat 33°08'27", long 83°12'08", Baldwin County, Hydrologic Unit 03070101, on Oconee River, 1.5 mi upstream from Georgia Railroad bridge, and 4 mi north of Milledgeville. DRAINAGE AREA, 2,900 mi². PERIOD OF RECORD, October 1952 to current year. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Co.). Reservoir is formed by concrete gravity dam. Spillway (crest elevation, 319 ft) is equipped with 24 gates 30 ft wide by 21 ft high. Storage began in 1952; water in reservoir first reached minimum pool elevation in 1953. Total capacity at elevation 340.0 ft, top of gates, is 334,000 acre-ft, of which 214,600 acre-ft 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 1982 TO SEPTEMBER 1983

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	338.2	307000	-	-
Oct. 31.....	335.9	274700	-32300	-525
Nov. 30.....	339.0	319000	+44300	+745
Dec. 31.....	338.9	317500	-1500	-24
CAL YR 1982	-	-	-15000	-21
Jan. 31.....	338.6	313000	-4500	-73
Feb. 28.....	338.5	311500	-1500	-27
Mar. 31.....	339.5	326500	+15000	+244
Apr. 30.....	338.4	310000	-16500	-277
May 31.....	338.2	307000	-3000	-49
June 30.....	338.5	311500	+4500	+76
July 31.....	337.8	301200	-10300	-168
Aug. 31.....	337.1	291400	-9800	-159
Sept. 30.....	338.0	304000	+12600	+212
WTR YR 1983	-	-	-3000	-4

† 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, Hydrologic Unit 03070201, at county highway bridge at Waltertown, and 6 mi north of Waycross.

PERIOD OF RECORD.--August 1973 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
05...	1315	105	--	48	5.9	5.5	23.0	23.0	6.1	71
NOV										
17...	1310	107	66	66	6.0	6.1	15.0	25.0	8.6	55
DEC										
09...	1525	225	66	70	6.4	6.1	13.0	20.0	7.9	74
JAN										
13...	1440	2700	52	52	4.7	4.7	9.5	10.0	10.0	87
FEB										
10...	1235	3900	--	45	4.7	4.8	9.0	16.5	8.6	74
MAR										
15...	1100	3330	--	39	--	4.9	14.0	18.5	7.8	75
APR										
06...	1315	2900	--	36	5.0	5.1	17.5	29.5	6.5	68
MAY										
18...	0830	391	43	45	5.6	5.4	21.5	23.5	--	--
JUN										
03...	1425	100	37	44	4.8	4.9	25.0	28.0	5.5	67
JUL										
07...	1315	617	47	47	4.8	4.7	27.5	30.0	4.9	61
AUG										
10...	1405	673	48	48	4.3	4.4	28.0	34.0	4.6	59
SEP										
07...	1225	22	38	37	5.1	5.1	29.5	31.0	5.4	71

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CACO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
05...	200	4	.8	20	4.0	.13	.110	.060	24
NOV									
17...	120	3	1.1	<30	6.0	.04	.020	.050	--
DEC									
09...	200	6	1.0	160	6.0	.03	.020	.120	30
JAN									
13...	160	8	1.8	40	1.0	.06	.050	.040	17
FEB									
10...	200	4	1.2	<30	2.0	.07	.030	.030	18
MAR									
15...	200	4	1.3	<35	1.0	.05	.030	.040	25
APR									
06...	250	5	1.4	40	2.0	.05	.060	.040	23
MAY									
18...	200	7	1.1	<20	4.0	.19	.110	.090	24
JUN									
03...	200	9	.8	220	1.0	.20	.180	.080	26
JUL									
07...	200	10	1.2	50	1.0	.03	.040	.040	23
AUG									
10...	250	4	1.2	<20	<1.0	<.02	.050	.040	32
SEP									
07...	160	5	1.4	<20	2.0	.11	<.020	.060	14

02226500 SATILLA RIVER NEAR WAYCROSS, GA.

LOCATION.--Lat 31°14'17", long 82°19'29", Ware-Pierce County line, Hydrologic Unit 03070201, on downstream side of pier near center span of bridge on State Highway 38, 3 mi northeast of Waycross, and 16 mi upstream from Alabama River.

DRAINAGE AREA.--1,200 mi², 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, National Geodetic Vertical Datum of 1929. Prior to Nov. 22, 1952, non-recording gage at site 300 ft downstream at same datum.

REMARKS.--Records good. Records of chemical analyses for the water years 1968-73 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--46 years, 1,030 ft³/s, 11.44 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,000 ft³/s Apr. 4, 1948, gage height, 22.4 ft, from floodmark; minimum, 6.0 ft³/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.--Peak discharges above base of 2,700 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 9	1700	4740	15.12	Mar. 22	1800	9180	16.96
Jan. 26	1800	5860	15.68	Apr. 19	2000	7540	16.38
Feb. 19	0100	9330	17.01	Apr. 27	0800	8000	16.55
Mar. 11	0100	*14900	18.24				

Minimum discharge, 28 ft³/s Sept. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1962 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	230	59	202	780	4300	4120	4450	5140	125	416	557	55
2	194	55	130	1080	4520	3710	4470	4230	110	571	503	45
3	162	53	162	1570	4760	3480	4370	3530	97	632	491	43
4	137	59	152	1980	4690	3400	4190	2920	89	596	684	40
5	121	58	151	2340	4570	3370	3930	2300	85	571	799	38
6	110	71	165	2920	4650	3360	3640	1780	75	556	882	37
7	102	198	186	3600	4770	4190	3420	1430	111	569	949	35
8	93	249	228	4160	4910	5840	3290	1200	176	499	1000	34
9	85	225	259	4530	4970	9650	3360	1030	153	382	940	33
10	79	195	270	4560	4770	14200	3560	913	137	284	785	32
11	154	189	276	4320	4390	14500	3730	814	149	222	615	31
12	105	199	378	3960	4000	12900	4230	716	158	174	451	30
13	139	196	437	3620	3900	10300	4880	619	135	141	324	31
14	203	166	511	3270	4400	8570	4890	525	105	116	239	31
15	180	140	599	2910	4710	6720	4790	442	87	97	198	30
16	153	126	663	2490	5110	5490	5150	373	75	83	170	29
17	142	121	704	2080	6740	4910	5610	318	66	73	151	29
18	137	160	783	1700	8390	4930	6700	276	59	64	134	36
19	126	208	917	1410	9210	5090	7460	249	54	58	114	40
20	112	145	1000	1160	9090	6430	7390	226	51	55	97	46
21	101	125	1040	1190	8230	8340	6980	204	52	60	84	71
22	99	125	998	1540	7170	9090	6220	183	68	53	74	78
23	94	133	905	2100	6150	8840	6170	206	104	245	66	68
24	88	165	782	2750	5340	8030	6780	207	121	181	58	70
25	88	202	674	4140	4810	7000	6710	213	149	117	54	72
26	89	222	580	5700	4720	6220	7460	258	135	121	50	67
27	87	225	512	5720	4700	5830	7950	275	125	225	47	59
28	81	228	464	5300	4460	5440	7730	241	141	407	49	51
29	73	234	429	4810	---	4890	7120	200	162	480	45	44
30	67	223	479	4420	---	4460	6200	169	259	567	54	40
31	62	---	600	4280	---	4390	---	145	---	589	79	---
TOTAL	3693	4754	15685	96390	152430	208190	162830	31332	3413	9204	10743	1345
MEAN	119	158	506	3109	5444	6716	5428	1011	114	297	347	44.8
MAX	230	249	1040	5720	9210	14500	7950	5140	259	632	1000	78
MIN	62	53	151	780	3900	3360	3290	145	51	53	45	29
CFSM	.10	.13	.42	2.59	4.54	5.60	4.52	.84	.10	.25	.29	.04
IN.	.11	.15	.49	2.99	4.73	6.45	5.05	.97	.11	.29	.33	.04
CAL YR 1982	TOTAL	333119	MEAN	913	MAX	5460	MIN	53	CFSM	.76	IN	10.33
WTR YR 1983	TOTAL	700009	MEAN	1918	MAX	14500	MIN	29	CFSM	1.60	IN	21.70

SATILLA RIVER BASIN

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02226582 SATILLA RIVER NEAR HOBOKEN, GA.

LOCATION.--Lat 31°13'00", long 82°09'45", Brantley-Pierce County line, Hydrologic Unit 03070201, at bridge on State Highway 121, 3 mi northeast of Hoboken.

DRAINAGE AREA.--1,350 mi², approximately.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 05...	1420	177	--	63	6.2	6.1	23.5	24.0	5.4
NOV 17...	1455	145	96	98	6.7	6.7	16.0	22.0	6.9
DEC 09...	1620	237	--	83	--	6.4	13.0	21.0	7.8
JAN 13...	1550	4700	50	54	4.7	4.8	10.0	14.0	9.5
FEB 10...	1410	5360	--	45	4.9	4.9	9.5	16.0	8.4
MAR 15...	1200	8300	--	41	--	4.8	15.0	20.0	7.4
APR 06...	1440	4340	--	36	4.9	5.1	12.0	30.0	6.5
MAY 18...	1000	660	--	63	5.4	5.8	23.5	26.0	--
JUN 05...	1605	400	67	70	6.7	6.3	25.0	28.0	4.6
JUL 07...	1455	940	50	49	5.1	5.2	28.0	31.5	4.5
AUG 10...	1510	1060	47	48	4.7	4.8	28.5	36.5	4.3
SEP 07...	1345	55	87	97	6.6	7.1	30.0	31.5	5.9

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY LAB (MG/L AS CaCO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 05...	160	5	.8	80	8.0	3	.33	.240	.170	21
NOV 17...	100	4	2.5	430	10	<1	.35	.280	.220	--
DEC 09...	160	7	1.0	430	8.0	7	.30	.180	.260	24
JAN 13...	160	9	1.3	40	1.0	7	.04	.050	.030	23
FEB 10...	160	4	1.2	<30	1.0	<1	.04	.060	.030	18
MAR 15...	250	4	1.1	40	1.0	<1	<.02	.020	.040	29
APR 06...	200	5	1.4	580	2.0	<1	<.02	.050	.040	22
MAY 18...	240	7	1.3	34500	5.0	8	.18	.320	.180	27
JUN 08...	160	10	1.5	700	8.0	8	.46	.760	.290	20
JUL 07...	200	9	1.5	11000	3.0	6	.12	.140	.100	26
AUG 10...	280	7	1.3	33000	1.0	6	.03	.090	.100	12
SEP 07...	140	7	1.0	90	12	1	.82	.090	.490	13

SATILLA RIVER BASIN

02227500 LITTLE SATILLA RIVER NEAR OFFERMAN, GA.

LOCATION.--Lat 31°27'04", long 82°03'17", Pierce-Wayne County line, Hydrologic Unit 03070202, at right bank pier of steel truss span of Seaboard Coast Line Railroad bridge, 1,500 ft downstream from bridge on State Highway 38, 4 mi northeast of Offerman, and 16 mi upstream from mouth.
DRAINAGE AREA.--646 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 58.00 ft, National Geodetic Vertical Datum of 1929. Prior to Nov. 8, 1952, water-stage recorder at site 1,500 ft upstream and Nov. 8, 1952, to Sept. 30, 1975, water-stage recorder at present site at datum 1.00 ft higher.

REMARKS.--Records good except those below 50 ft³/s, which are fair.AVERAGE DISCHARGE.--32 years, 523 ft³/s, 10.99 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,200 ft³/s Sept. 29, 1953, gage height, 14.5 ft, present datum; no flow Oct. 10 to Nov. 14, 1954.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 10	0400	2070	9.51	Mar. 20	1400	5140	10.94
Jan. 26	1200	3980	10.48	Apr. 12	1000	2680	9.83
Feb. 5	0800	3250	10.14	Apr. 18	1500	3040	10.03
Feb. 18	2000	5880	11.22	Apr. 25	0200	4920	10.85
Mar. 8	2200	*7720	11.51				

Minimum discharge, 0.40 ft³/s Sept. 15, 16.DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	9.6	130	655	2290	1670	2050	1640	2.5	170	45	1.4
2	35	9.3	117	875	2370	1580	1980	1260	2.2	581	52	5.2
3	29	8.9	106	1090	2550	1480	1820	956	2.1	919	82	4.2
4	26	10	98	1200	2870	1430	1630	782	2.0	757	107	4.0
5	21	17	91	1330	3210	1400	1440	665	2.0	557	88	2.9
6	20	18	104	1600	3170	1570	1290	520	1.7	294	63	2.3
7	18	19	126	1860	2980	3520	1280	380	2.5	207	38	2.6
8	17	18	132	1860	2840	7060	1410	295	6.3	234	27	2.9
9	15	17	130	1870	2640	7110	1490	245	19	242	95	2.4
10	13	15	142	2030	2220	6740	1690	204	19	259	95	1.5
11	17	14	155	1990	1880	6100	2150	169	12	342	39	.83
12	35	12	272	1980	1630	4710	2630	138	7.9	287	27	.55
13	50	11	423	1820	1520	3540	2430	115	5.5	161	40	.50
14	46	25	521	1730	1350	2610	2040	100	3.7	118	38	.46
15	37	42	490	1610	2730	1920	1920	82	2.8	75	41	.43
16	29	43	418	1370	3700	1610	2410	63	2.1	43	25	.43
17	25	41	402	1150	4510	1800	2860	52	1.8	27	13	.52
18	29	39	444	975	5630	3040	2990	44	1.7	24	7.1	.49
19	30	59	529	822	5420	4350	2760	37	2.1	17	6.6	.49
20	37	65	670	712	4410	4960	2300	34	3.2	9.9	25	.49
21	36	73	753	880	3590	4730	1670	31	3.2	6.2	16	.76
22	34	73	710	1340	2950	3930	1640	27	3.2	4.3	9.4	.74
23	29	67	577	1800	2430	3210	1850	22	3.8	102	5.0	.78
24	32	60	436	2300	1980	2640	3880	19	8.5	240	2.7	1.2
25	30	65	334	2980	1690	2180	4570	15	7.7	259	1.8	.99
26	26	101	276	3910	1470	1920	3860	10	5.4	156	1.4	.83
27	21	137	241	3570	1520	1980	4200	7.3	3.9	67	1.1	.72
28	18	153	212	3080	1660	2080	3690	5.0	5.6	33	1.1	.67
29	14	155	199	2720	---	2050	2910	3.7	5.7	23	1.0	.66
30	12	146	290	2510	---	1980	2160	3.3	14	27	.96	.64
31	10	---	497	2360	---	2000	---	2.7	---	44	.96	---
TOTAL	834	1522.8	10015	55979	77710	96900	71200	7926.7	163.1	6285.4	975.12	42.58
MEAN	26.9	50.8	323	1806	2775	3126	2373	256	5.44	203	31.5	1.42
MAX	50	155	753	3910	5630	7110	4570	1640	19	919	107	5.2
MIN	10	8.9	91	655	1470	1400	1280	2.7	1.7	4.3	.96	.43
CFSM	.04	.08	.50	2.80	4.30	4.84	3.67	.40	.008	.31	.05	.002
IN.	.05	.09	.58	3.22	4.47	5.58	4.10	.46	.01	.36	.06	.00
CAL YR 1982	TOTAL	181926.40	MEAN	498	MAX	2880	MIN	4.5	CFSM	.77	IN	10.48
WTR YR 1983	TOTAL	329553.70	MEAN	903	MAX	7110	MIN	.43	CFSM	1.40	IN	18.98

SATILLA RIVER BASIN

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02227500 LITTLE SATILLA RIVER NEAR OFFERMAN, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1957 to May 1958, October 1969 to August 1970, April 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT					
05...	1235	21	22.0	16	.91
NOV					
16...	1110	43	12.0	11	1.3
JAN					
05...	1150	1350	11.0	11	40
MAR					
11...	1320	6120	12.0	11	182
APR					
13...	1250	2430	18.0	12	79
MAY					
17...	1125	53	20.5	13	1.9
JUN					
07...	0925	1.9	24.5	14	.07
28...	0950	5.9	25.0	17	.27
JUL					
14...	0950	124	24.0	14	4.7
AUG					
10...	1105	94	28.5	11	2.8
SEP					
20...	1200	.47	26.0	13	.02

SATILLA RIVER BASIN

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

LOCATION.--Lat 31°13'16", long 81°52'03", Brantley County, Hydrologic Unit 03070201, on left bank piling 25 ft upstream from bridge on U.S. Highway 84, 400 ft downstream from Seaboard Coast Line Railroad bridge, and 1 mi west of Atkinson.
DRAINAGE AREA.--2,790 mi², 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, National Geodetic Vertical Datum of 1929. Prior to Dec. 6, 1933, and Nov. 21, 1961, to Sept. 30, 1964, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--53 years, 2,259 ft³/s, 11.00 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,100 ft³/s Apr. 6, 1948, gage height, 23.9 ft; minimum daily, 21 ft³/s Nov. 2-5, 7-13, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1862, 27.2 ft in September 1929, from information by Georgia Department of Transportation; discharge, 110,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,800 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 15	1900	9100	14.74	Mar. 14	0900	*20600	17.60
Jan. 31	2400	11100	15.48	Apr. 28	1200	14200	16.28
Feb. 23	0700	17000	16.89				

Minimum discharge, 94 ft³/s Sept. 20, 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	861	239	556	1670	11100	9680	10400	13400	368	394	968	194
2	759	226	553	1970	11000	9120	9930	12600	343	524	1400	217
3	662	214	545	2350	10700	8790	9440	11600	319	773	1990	214
4	579	205	513	2750	10200	8560	9010	10600	300	1080	2360	221
5	511	193	436	3080	9810	8380	8710	9520	286	1420	2450	289
6	461	187	460	3400	9710	8310	8500	8500	275	1710	2300	284
7	422	185	439	3680	9930	8580	8300	7470	278	1910	2080	226
8	391	137	429	3950	10300	8620	9120	6420	298	2010	1890	178
9	366	139	446	4280	10600	8410	5170	5360	280	1900	1740	153
10	342	205	470	4770	10500	8600	8340	4360	306	1720	1600	139
11	327	242	501	5490	10300	11100	8230	3450	359	1510	1490	128
12	313	277	555	6420	10100	15300	9130	2770	382	1310	1390	120
13	304	304	603	7440	10100	19100	8200	2270	363	1150	1310	119
14	314	317	707	8400	10400	20400	8430	1880	323	967	1230	117
15	328	325	357	9000	10300	19500	8800	1600	291	770	1100	112
16	334	325	1010	9020	10100	17900	9120	1380	270	611	929	107
17	344	329	1120	8660	10200	16400	9210	1190	248	506	751	103
18	344	329	1190	8070	10900	14800	9220	1030	228	415	597	100
19	333	315	1240	7400	12100	13200	9490	895	217	346	478	97
20	324	299	1300	6700	13400	12000	10300	788	209	302	397	95
21	318	306	1400	6210	15000	11700	11200	693	194	274	346	95
22	314	348	1500	5760	16400	12400	11700	618	192	235	310	95
23	325	377	1620	5410	16800	13300	11900	560	191	417	277	96
24	359	390	1740	5180	15900	14200	11900	514	192	463	248	97
25	372	390	1830	5180	14400	14900	11600	474	196	493	224	101
26	363	399	1880	5430	12800	14800	11700	451	202	681	213	104
27	338	416	1830	5950	11400	14300	13100	441	224	821	197	103
28	310	444	1730	6860	10400	13400	14000	420	254	792	184	101
29	287	491	1610	8260	---	12300	14000	405	292	695	175	101
30	268	532	1550	9900	---	11400	13800	399	314	697	192	100
31	251	---	1570	10900	---	10800	---	387	---	817	192	---
TOTAL	12124	9185	32255	183540	324850	390250	302950	112445	8194	27713	31028	4206
MEAN	391	306	1040	5921	11600	12590	10100	3627	273	894	1001	140
MAX	861	532	1880	10900	16800	20400	14000	13400	382	2010	2450	289
MIN	251	185	429	1670	9710	8310	8120	387	191	235	175	95
CFSM	.14	.11	.37	2.12	4.16	4.51	3.62	1.30	.10	.32	.36	.05
IN.	.16	.12	.43	2.45	4.33	5.20	4.04	1.50	.11	.37	.41	.06

CAL YR 1982	TOTAL	802303	MEAN	2198	MAX	8480	MIN	185	CFSM	.79	IN	10.70
WTR YR 1983	TOTAL	1438740	MEAN	3942	MAX	20400	MIN	95	CFSM	1.41	IN	19.18

SATILLA RIVER BASIN

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02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to September 1981.

WATER TEMPERATURES: November 1974 to September 1981.

INSTRUMENTATION.--Water-temperature recorder November 1974 to September 1981. Specific-conductance recorder October 1975 to September 1981.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 159 micromhos Nov. 7, 1978; minimum recorded, 30 micromhos Mar. 16, 1977, Sept. 28, 1979, Mar. 20, 21, 1980.

WATER TEMPERATURES: Maximum, 33.5°C July 11-12, 1977, Aug. 4, 1980; minimum recorded, 4.0°C Jan. 13, 1981.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
05...	1425	505	57	55	5.7	5.8	24.0	27.5	5.9	70
05...	1430	505	57	58	5.7	6.2	24.0	--	5.9	70
JAN										
19...	1530	7300	56	53	4.7	5.0	7.0	--	10.2	83
19...	1535	7300	56	56	4.7	4.6	7.0	3.0	10.2	83
MAY										
18...	1115	1040	43	47	5.6	5.3	23.5	27.0	--	--
25...	1430	470	53	54	5.7	5.9	26.0	--	5.6	69
25...	1435	470	53	55	5.7	5.7	26.0	33.0	5.6	69
AUG										
17...	1445	737	48	42	5.1	5.1	28.0	--	4.5	58
17...	1450	737	48	49	5.1	5.3	28.0	26.0	4.5	58

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	COLI- FORM, FECAL, O.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)
OCT									
05...	200	5	--	--	<20	--	--	--	--
05...	--	--	4.0	--	--	13	110	11	10
JAN									
19...	--	--	3.6	1.9	--	31	19	9	8
19...	200	3	--	1.9	--	--	--	--	--
MAY									
18...	250	8	--	1.2	490	--	--	--	--
25...	--	--	5.5	--	--	8	1200	10	7
25...	200	10	--	1.1	<20	--	--	--	--
AUG									
17...	--	--	5.4	--	--	78	240	10	8
17...	250	6	--	1.5	30	--	--	--	--

SATILLA RIVER BASIN

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY LAS (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)
OCT 05...	--	--	--	--	--	--	5.0	19
05...	2.1	1.4	5.2	45	.7	2.1	1.0	3.9
JAN 19...	1.6	1.3	5.4	49	.8	2.1	1.0	39
19...	--	--	--	--	--	--	1.0	39
MAY 18...	--	--	--	--	--	--	2.0	9.7
25...	1.9	1.2	4.8	47	.7	1.7	3.0	12
25...	--	--	--	--	--	--	4.0	15
AUG 17...	2.0	1.1	4.2	45	.6	1.2	2.0	31
17...	--	--	--	--	--	--	4.0	62

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTIT- UENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED PER DAY)	SOLIDS, DIS- SOLVED PER AC-FT)
OCT 05...	14	9.9	<.10	12	92	49	125	.13
JAN 19...	12	9.4	<.10	8.6	73	42	1440	.10
MAY 25...	13	7.2	<.10	3.1	89	42	113	.12
AUG 17...	15	2.1	<.10	8.5	96	37	191	.13

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 05...	.13	--	.140	--	--	--	.100	--	--	25
05...	--	.13	--	.080	--	.60	.100	.050	.040	--
JAN 19...	--	.12	.030	.030	.57	.60	.020	.030	<.010	--
19...	.06	--	.030	--	--	--	.020	--	--	30
MAY 18...	.14	--	.210	--	--	--	.130	--	--	31
25...	--	.31	--	.390	--	1.20	.120	.090	.090	--
25...	.26	--	.370	--	--	--	.140	--	--	22
AUG 17...	--	<.10	--	.120	--	1.00	.090	.050	.050	--
17...	.11	--	.090	--	--	--	.110	--	--	34

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
OCT 05...	--	1	31	1	1	<1	3	2	910	<1
JAN 19...	400	1	27	<1	<1	<1	<3	2	580	--
MAY 25...	300	1	25	1	1	<1	3	4	710	2
AUG 17...	<10	1	52	<1	1	<1	<3	<1	1200	3

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 05...	4	31	<.1	10	1	<1	<1	15	6.0	8
JAN 19...	<4	47	.1	<10	1	<1	<1	11	<6.0	8
MAY 25...	4	30	.1	10	<1	<1	<1	13	6.0	12
AUG 17...	<4	35	1.1	<10	1	<1	<1	15	<6.0	21

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDEO (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEO (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 05...	1435	505	24.0	15	20	100
JAN 19...	1540	7300	7.0	10	197	78
AUG 17...	1455	737	28.0	12	36	96

ST. MARYS RIVER BASIN

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

LOCATION.--Lat 30°31'03", long 82°13'50", in NW sec.8, T.1 N., R.21 E., Baker County, Fla.--Charlton County, Ga., Hydrologic Unit 03070204, near right bank at upstream side of bridge on State Highways 2 and 94, 0.2 mi upstream from Georgia Southern & Florida Railway bridge, 0.4 mi west of Moniac, 1.0 mi downstream from Moccasin Creek, and 122 mi upstream from mouth of St. Marys River.

DRAINAGE AREA.--160 mi², 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, National Geodetic Vertical Datum of 1929. January 1921 to June 1934, nonrecording gage at site 800 ft downstream at datum 3.22 ft higher.

REMARKS.--Records good.

AVERAGE DISCHARGE.--38 years (1922-23, 1928-29, 1933, 1951-83), 161 ft³/s, 13.66 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,600 ft³/s Apr. 5, 1973, gage height, 22.98 ft; no flow for many days in some years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,800 ft³/s Mar. 18, gage height, 13.51 ft; minimum discharge, 2.4 ft³/s Aug. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	141	34	124	432	345	517	186	18	56	15	3.2
2	50	129	33	130	497	364	456	166	16	52	20	10
3	47	114	32	241	782	318	410	149	14	49	43	19
4	45	107	31	321	731	273	360	143	13	46	43	19
5	45	114	29	275	627	236	312	139	12	48	41	17
6	119	109	30	228	570	213	272	124	12	46	43	13
7	178	96	31	192	627	442	250	111	27	45	45	10
8	187	86	31	165	589	823	341	100	76	42	45	8.0
9	190	80	30	148	514	710	816	92	87	40	43	6.3
10	171	74	30	145	453	592	1640	85	81	37	45	4.9
11	148	69	30	137	423	499	1520	78	72	33	49	3.5
12	142	65	40	124	393	419	1280	72	69	30	52	2.9
13	135	63	53	110	456	353	1090	66	83	27	52	5.6
14	123	61	54	100	1060	295	927	61	76	25	48	17
15	108	58	53	93	1200	250	791	55	63	23	43	20
16	93	54	57	87	1080	307	797	51	54	19	39	17
17	82	51	65	81	990	881	725	52	47	16	35	14
18	73	49	60	76	930	1690	616	49	41	13	31	17
19	66	48	57	77	819	1440	581	47	38	10	27	58
20	61	46	55	72	710	1340	535	44	38	13	24	61
21	52	45	53	175	621	1210	467	41	38	29	20	61
22	58	44	51	432	551	1100	410	40	38	27	17	93
23	372	42	48	578	535	914	397	37	38	27	14	88
24	662	41	47	705	514	823	487	35	41	31	12	74
25	554	39	45	679	449	927	451	32	43	26	9.2	63
26	419	38	45	627	386	819	390	29	42	22	7.2	53
27	343	37	43	575	325	713	336	26	40	19	5.8	45
28	300	36	43	627	290	708	286	24	42	17	4.5	39
29	250	35	42	621	---	627	243	22	52	17	3.4	34
30	203	34	52	556	---	538	213	21	59	17	2.7	31
31	165	---	100	497	---	514	---	19	---	16	3.4	---
TOTAL	5494	2005	1404	8998	17554	20883	17916	2196	1370	918	882.2	907.4
MEAN	177	66.8	45.3	290	627	674	597	70.8	45.7	29.6	28.5	30.2
MAX	662	141	100	705	1200	1690	1640	186	87	56	52	93
MIN	45	34	29	72	290	213	213	19	12	10	2.7	2.9
CFSM	1.11	.42	.28	1.81	3.92	4.21	3.73	.44	.29	.19	.18	.19
IN.	1.28	.47	.33	2.09	4.08	4.86	4.17	.51	.32	.21	.21	.21
CAL YR 1982	TOTAL	40439.38	MEAN	111	MAX	853	MIN	.20	CFSM	.69	IN	9.40
WTR YR 1983	TOTAL	80527.60	MEAN	221	MAX	1690	MIN	2.7	CFSM	1.38	IN	18.72

02231000 ST MARYS RIVER NEAR MACCLENNY, FLA.
(National stream-quality accounting network station)

LOCATION.--Lat 30°21'31", long 82°04'54", in NW sec.2, T.2 S., R.22 E., Baker County, Fla.--Charlton County, Ga., Hydrologic Unit 03070204, on right bank 200 ft downstream from site of former Stokes Bridge, 1 mi downstream from confluence of North and South Prongs, 6 mi northeast of Macclenny, and 100 mi upstream from mouth.

DRAINAGE AREA.--700 mi², 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, National Geodetic Vertical Datum of 1929 (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 upstream at same datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--57 years, 671 ft³/s, 13.02 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,100 ft³/s Sept. 25, 1947, maximum gage height, 23.25 ft Sept. 13, 1964, from floodmark; minimum discharge observed, 12 ft³/s May 22, 1932; minimum gage height observed, 0.04 ft June 4, 5, 1927.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 16	1600	3350	13.33	Apr. 11	1200	4410	14.41
Mar. 20	0800	*4610	14.61	July 3	1500	3950	13.95

Minimum discharge, 47 ft³/s June 5, minimum gage height, 1.57 ft June 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	288	232	96	173	903	846	1620	575	58	1260	383	335
2	284	211	95	198	871	856	1540	506	56	1390	444	522
3	265	196	93	295	1130	313	1430	450	52	3680	971	530
4	245	182	91	392	1350	735	1300	418	50	3230	1150	455
5	256	175	89	405	1310	660	1160	397	48	2490	1320	383
6	426	176	87	360	1190	596	1020	365	49	2020	1380	319
7	524	173	85	318	1260	741	905	326	62	1660	1310	268
8	565	164	87	282	1350	1430	946	294	273	1420	1250	221
9	485	156	86	251	1300	1790	1440	265	470	1210	1200	125
10	404	148	86	231	1190	1700	3050	239	416	1000	1410	161
11	349	144	26	222	1170	1480	4330	216	345	835	1370	143
12	354	138	90	210	1180	1310	4180	196	285	700	1230	128
13	361	134	106	191	1280	1140	3660	178	253	589	1050	146
14	340	130	124	173	2070	971	3050	163	244	514	919	318
15	306	129	124	160	2980	842	2580	149	215	442	852	532
16	268	125	121	149	3320	873	2250	138	177	397	766	662
17	232	122	125	140	3190	1620	2010	136	150	340	637	698
18	206	118	133	132	2860	2900	1810	151	128	279	514	741
19	186	116	128	124	2570	4200	1590	139	111	228	425	1230
20	169	114	122	123	2240	4550	1430	127	122	192	357	1250
21	159	113	116	192	1930	4270	1280	117	133	251	306	1080
22	155	112	112	483	1690	3920	1110	109	207	334	262	1000
23	194	110	107	911	1520	3480	1030	103	319	296	223	1010
24	366	109	103	1310	1410	3060	1180	97	737	268	194	901
25	598	106	98	1400	1290	2360	1220	91	895	247	169	762
26	573	104	95	1300	1130	2810	1090	84	811	234	152	645
27	453	103	91	1170	982	2620	944	73	670	528	136	350
28	373	102	89	1130	873	2380	827	72	565	629	124	470
29	329	100	87	1150	---	2180	729	69	678	510	119	400
30	294	98	89	1100	---	1930	647	66	907	428	122	343
31	259	---	121	1010	---	1740	---	61	---	404	228	---
TOTAL	10266	4140	3162	15675	45539	61303	51358	6375	9486	28505	20973	16338
MEAN	331	138	102	506	1626	1978	1712	206	316	920	677	546
MAX	598	232	133	1400	3320	4550	4330	575	907	3680	1410	1250
MIN	155	98	85	123	871	596	647	61	48	192	119	128
CFSM	.47	.20	.15	.72	2.32	2.83	2.45	.29	.45	1.31	.97	.73
IN.	.55	.22	.17	.83	2.42	3.26	2.73	.34	.50	1.51	1.11	.87

CAL YR 1982	TOTAL	192906	MEAN 529	MAX 3170	MIN 46	CFSM .76	IN 10.25
WTR YR 1983	TOTAL	273170	MEAN 748	MAX 4550	MIN 48	CFSM 1.07	IN 14.52

ST. MARYS RIVER BASIN

02231000 ST. MARYS RIVER NEAR MACCLENNY, FLA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1965 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1965 to October 1969, January 1974 to September 1981.

WATER TEMPERATURES: March 1965 to October 1969, January 1974 to September 1976.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

		DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)		
		DEC 06...	1045	68	57	55	7.4	6.6	12.5	9.8		
		FEB 22...	1015	1730	57	37	4.7	4.4	14.0	8.6		
		MAY 23...	1145	102	48	47	5.9	5.9	27.0	7.4		
		AUG 15...	0930	841	43	55	4.3	4.2	26.0	6.1		
DATE	TUR- BID- ITY (NTU)	COLI- FORM, FECAL, JM-MF (COLS./ 100 ML)	STREP- TOCOCOI FECAL, CF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	ACIDITY (MG/L AS H)	ACIDITY (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
DEC 06...	1.5	96	1300	21	9	--	--	4.6	2.3	6.1	38	.6
FEB 22...	3.0	50	45	9	--	.1	5.0	2.2	.74	3.7	48	.6
MAY 23...	1.6	190	530	16	3	--	--	3.7	1.7	4.2	35	.5
AUG 15...	1.1	--	90	11	--	.4	20	2.5	1.1	6.2	54	.8
DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	
DEC 06...	.50	12	.9	17	8.5	<.10	9.2	84	56	15	.11	
FEB 22...	.20	<1.0	--	5.0	7.4	<.10	5.3	82	--	383	.11	
MAY 23...	.40	9.0	20	7.0	6.1	<.10	7.3	100	36	23	.14	
AUG 15...	.30	<1.0	--	27	12	<.10	4.7	124	--	282	.17	

02231000 ST MARYS RIVER NEAR MACCLENNY, FLA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
DEC 06...	.150	.050	.70	.060	.060	.050
FEB 22...	<.100	.030	.90	.020	.010	.020
MAY 23...	.120	.070	.60	.040	.040	.040
AUG 15...	<.100	.070	.90	.030	.030	.020

DATE	ALUM- INIUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
DEC 06...	200	1	26	<1	<1	<1	<3	--	540	--
FEB 22...	470	1	21	<1	<1	--	<3	14	420	26
MAY 23...	210	1	22	<1	<1	<1	3	5	600	1
AUG 15...	350	2	45	<1	<1	<1	<3	11	1200	4

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
DEC 06...	<4	7	.3	10	--	--	<1	31	<6	29
FEB 22...	<4	14	1.0	<10	4	<1	<1	10	<6	69
MAY 23...	<4	7	<.1	<10	<1	<1	<1	15	<6	8
AUG 15...	<4	12	<.1	<10	1	<1	<1	15	<6	51

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .052 MM
DEC 06...	1045	68	12.5	100	18	20
FEB 22...	1015	1730	14.0	59	276	7
MAY 23...	1145	102	27.0	80	22	62

ST. MARYS RIVER BASIN

02231220 ST. MARYS RIVER AT BOULOGNE, FLA.

LOCATION.--Lat 30°46'35", long 81°58'44", Nassau County, Fla.-Charlton County, Ga., Hydrologic Unit 03070204, at bridge on U.S. Highways 1, 23, and 301, at Boulogne.

DRAINAGE AREA.--1,180 mi², approximately; includes part of watershed in Okefenokee Swamp, which is indeterminate.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1962 TO SEPTEMBER 1963

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 05...	1535	--	49	6.2	5.8	23.5	23.5	6.2	73
NOV 17...	1630	62	61	6.6	6.5	18.0	21.5	7.0	74
DEC 09...	1725	74	75	--	6.6	17.0	18.0	5.6	57
JAN 13...	1720	57	55	5.6	5.6	11.0	7.0	10.4	94
FEB 10...	1615	56	54	4.6	4.7	10.5	15.5	9.2	82
MAR 15...	1450	--	49	--	4.6	14.0	19.5	8.6	83
APR 06...	1610	--	45	4.4	4.5	19.0	28.5	6.9	74
MAY 18...	1355	50	54	5.9	6.1	25.0	27.0	--	--
JUN 09...	0825	62	66	6.7	6.4	23.0	26.0	5.9	69
JUL 07...	1605	36	36	4.7	4.7	26.0	30.0	4.1	50
AUG 10...	1640	45	45	4.6	4.7	27.0	33.0	5.0	63
SEP 07...	1520	46	46	5.3	5.4	29.0	32.0	5.7	74

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CACO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
OCT 05...	240	2	.5	230	7.0	.07	<.020	.030	33	5.0
NOV 17...	200	1	.9	<30	12	<.02	.030	.030	--	7.2
DEC 09...	200	4	.6	90	16	.06	.040	.040	38	--
JAN 13...	200	5	1.5	90	4.0	.04	.050	.030	26	7.6
FEB 10...	200	2	1.1	30	<1.0	<.02	.030	.030	27	5.0
MAR 15...	300	2	1.0	40	<1.0	<.02	.030	.030	30	5.5
APR 06...	300	3	1.6	70	<1.0	<.02	.160	.020	31	5.6
MAY 18...	250	3	1.0	130	7.0	.09	.090	.040	30	5.3
JUN 09...	200	5	--	--	11	.08	.060	.040	23	3.7
JUL 07...	280	6	1.0	330	1.0	.02	.040	<.020	34	4.8
AUG 10...	360	2	.9	1100	1.0	<.02	.050	.020	31	5.4
SEP 07...	200	2	.9	110	4.0	.05	.050	.050	32	5.3

SUWANNEE RIVER BASIN

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02314500 SUWANNEE RIVER AT FARGO, GA.

LOCATION.--Lat 30 40'50", long 82 33'38", Clinch County, Hydrologic Unit, 03110201, on downstream side of right bank pier of bridge on U.S. Highway 441 at Fargo, 4 mi upstream from Suwannee Creek, and 12 mi downstream from Mixons Ferry damsite.

DRAINAGE AREA.--About 1,260 mi², 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, National Geodetic Vertical Datum of 1929. Jan. 27, 1921, to Sept. 30, 1923, nonrecording gage at site 1,200 ft upstream at datum 3.00 ft higher. Jan. 27, 1927, to Dec. 31, 1931, and Apr. 20, 1937, to June 10, 1938, nonrecording gage at site 1,000 ft upstream at datum 1.00 ft higher, June 11, 1938, to Nov. 26, 1952, nonrecording gage at site 1,000 ft upstream at present datum. Oct. 14, 1960, to Oct. 29, 1970, auxiliary water-stage recorder at site about 3 mi upstream and since Nov. 5, 1971, auxiliary water-stage recorder at site about 2 mi upstream.

REMARKS.--Records good. Low flow at times affected by manipulation of water level at Mixons Ferry Dam.

AVERAGE DISCHARGE.--50 years (1927-31, 1937-83), 1,068 ft³/s, 11.51 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,800 ft³/s Oct. 1, 5, 6, 1928; maximum gage height, 21.01 ft Apr. 9, 1973; no flow at times in 1931, 1943, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 20	1400	3700	12.66	Apr. 19	2400	4580	13.38
Mar. 22	0500	*5200	13.84				

Minimum discharge, 27 ft³/s Dec. 7-11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	41	30	129	1760	3170	4410	3270	529	696	272	410
2	63	41	30	138	1880	3130	4250	3120	553	681	395	345
3	60	41	29	188	1930	3080	4070	2980	518	664	759	326
4	57	43	29	230	2070	3010	3360	2940	463	629	991	325
5	59	43	28	233	2130	2920	3670	2860	414	609	918	309
6	72	42	28	236	2200	3000	3490	2820	375	606	844	284
7	67	44	27	236	2280	3320	3340	2740	387	610	815	260
8	62	48	27	235	2350	3580	3280	2640	637	617	892	236
9	57	47	27	264	2400	3740	3530	2540	734	625	901	218
10	54	45	27	386	2410	3760	3900	2460	746	628	889	202
11	56	44	28	470	2410	3700	4110	2390	710	630	890	188
12	78	43	33	508	2400	3620	4150	2270	651	638	906	196
13	79	43	36	505	2480	3500	4100	2180	607	621	951	313
14	75	45	36	497	2830	3390	4030	2070	593	599	974	431
15	70	44	35	496	3150	3290	4040	1960	571	573	1010	420
16	69	43	37	498	3350	3300	4200	1870	529	543	1080	365
17	70	42	37	501	3480	3670	4370	1780	480	506	1160	313
18	65	41	37	503	3590	4360	4480	1680	429	463	1220	321
19	60	40	37	504	3660	4860	4550	1580	387	419	1230	345
20	57	39	44	513	3670	5070	4570	1470	356	381	1210	297
21	54	39	49	582	3680	5150	4510	1310	348	371	1160	362
22	49	38	48	699	3640	5190	4400	1170	372	352	1070	410
23	46	38	47	841	3610	5150	4350	1050	370	329	979	354
24	49	35	46	967	3550	5120	4350	995	397	332	876	301
25	50	31	46	1070	3470	5070	4290	928	457	306	781	265
26	49	31	45	1160	3380	5000	4170	845	493	269	690	243
27	47	31	45	1250	3280	4900	3980	772	598	251	605	228
28	45	31	44	1390	3200	4820	3790	693	635	237	532	213
29	44	31	45	1510	---	4720	3600	621	666	228	462	197
30	43	31	58	1620	---	4600	3420	568	691	271	410	184
31	42	---	103	1710	---	4530	---	503	---	285	378	---
TOTAL	1814	1195	1218	20069	80310	125720	121260	57095	15696	14969	26250	8861
MEAN	58.5	39.8	39.3	647	2868	4055	4042	1842	523	483	847	295
MAX	79	48	103	1710	3690	5190	4570	3270	746	696	1230	431
MIN	42	31	27	129	1760	2920	3280	503	348	228	272	184
CFSM	.05	.03	.03	.51	2.28	3.22	3.21	1.46	.42	.38	.67	.23
IN.	.05	.04	.04	.59	2.37	3.71	3.58	1.69	.46	.44	.77	.26
CAL YR 1982	TOTAL	99514	MEAN	273	MAX	1130	MIN	27	CFSM	.22	IN	2.94
WTR YR 1983	TOTAL	474457	MEAN	1300	MAX	5190	MIN	27	CFSM	1.03	IN	14.01

SUWANNEE RIVER BASIN

02314500 SUWANNEE RIVER AT FARGO, GA.--Continued

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
20...	0915	57	65	63	4.2	4.2	20.5	21.5	7.1	79
NOV										
17...	1010	42	67	63	4.1	4.3	15.5	18.5	8.3	84
DEC										
15...	1025	37	--	62	4.2	4.3	15.5	15.0	9.1	92
JAN										
26...	1000	1150	77	69	3.9	3.9	7.5	9.0	10.1	85
FEB										
24...	1000	3560	78	71	3.4	4.0	14.0	12.5	7.1	70
MAR										
24...	1035	5120	68	63	3.9	4.0	15.0	14.5	6.2	63
APR										
21...	0955	4520	57	60	4.0	4.1	15.0	16.0	6.1	61
MAY										
26...	0825	850	66	66	3.1	4.0	23.5	24.0	4.7	56
JUN										
21...	0855	348	67	62	3.7	4.1	25.5	26.0	5.7	71
JUL										
20...	0830	381	--	65	3.9	4.0	29.0	28.0	5.1	67
AUG										
17...	0930	1150	67	64	3.9	4.1	25.5	29.0	5.4	66
SEP										
29...	0900	200	70	66	4.0	3.9	20.0	24.0	6.9	77

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
OCT											
20...	280	2	.8	20	<1.0	<1	<.02	.020	.020	--	6.1
NOV											
17...	200	<1	.8	40	<1.0	<1	--	.030	<.020	--	9.6
DEC											
16...	200	2	1.2	40	<1.0	<1	<.02	.020	<.020	33	7.6
JAN											
26...	200	1	.4	430	<1.0	2	<.02	.030	<.020	50	4.4
FEB											
24...	300	5	.2	40	<1.0	<1	<.02	.030	<.020	48	7.2
MAR											
24...	360	1	1.2	<30	<1.0	1	.03	.050	.070	46	7.7
APR											
21...	400	1	1.2	80	<1.0	2	<.02	.040	.020	45	8.6
MAY											
26...	360	2	1.0	<20	<1.0	1	.02	.070	<.020	49	8.4
JUN											
21...	300	3	.4	20	<1.0	1	<.02	.080	<.020	49	8.8
JUL											
20...	320	4	1.2	40	<1.0	4	<.02	.090	.030	54	7.8
AUG											
17...	320	1	--	110	<1.0	<1	<.02	<.020	.020	49	7.0
SEP											
29...	200	1	1.4	35	<1.0	<1	<.02	.040	--	47	13

02316000 ALAPAHA RIVER NEAR ALAPAHA, GA.

LOCATION.--Lat 31°23'03", long 83°11'33", Berrien County, Hydrologic Unit 03110202, near right bank on downstream side of bridge on U.S. Highway 82, 2 mi east of Alapaha, and 6 mi upstream from Willacoochee River.

DRAINAGE AREA.--663 mi².

PERIOD OF RECORD.--October 1969 to current year. Water-discharge records for water years 1937-76 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
APR 06...	0900	1490	33	33	6.0	6.2	17.0	6.8	71
JUN 29...	1330	330	40	42	5.6	6.0	24.0	6.4	77

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)
APR 06...	120	16	10	6	2.0	1.2	2.9	34	.4	1.7	4.0	7.7
JUN 29...	100	18	11	7	2.3	1.2	2.7	32	.4	1.6	4.0	19

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
APR 06...	1.3	7.4	<.10	.7	47	20	139	.06	<.10	<.10	<.010	<.010
JUN 29...	10	6.7	<.10	6.4	56	34	49.9	.08	.10	.11	.030	.040

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)
APR 06...	--	--	.50	.60	--	--	.030	.010	12	200	1	1
JUN 29...	.77	.56	.80	.60	.90	.71	.050	.020	12	100	2	1

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, DIS- SOLVED (UG/L AS ZN)
APR 06...	1	<10	1	550	9	3	18	<.1	<.1	<1	<3
JUN 29...	1	<10	2	740	--	10	53	.3	.1	<1	12

SUWANNEE RIVER BASIN

02317500 ALAPAHA RIVER AT STATENVILLE, GA.

LOCATION.--Lat 30°42'14", long 83°02'00", Echols County, Hydrologic Unit 03110202, at downstream side of left bank pier of bridge on State Highway 94, 0.2 mi west of Statenville.

DRAINAGE AREA.--1,400 mi², 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, National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Jan. 28 to June 30, 1921, nonrecording gage at site 50 ft upstream at datum 2.10 ft higher. Dec. 10, 1931, to Nov. 30, 1949, nonrecording gage at site 200 ft 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 U.S. Geological Survey.

AVERAGE DISCHARGE.--52 years (1931-83), 1,044 ft³/s, 10.13 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,300 ft³/s Apr. 6, 1948, gage height, 29.8 ft, from graph based on gage readings; minimum, 16 ft³/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.--Peak discharges above base of 2,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 7	0500	3850	15.24	Apr. 11	1300	5220	20.21
Feb. 27	2400	7810	25.10	Apr. 27	1600	5680	21.53
Mar. 18	2000	*9190	25.89				

Minimum discharge, 68 ft³/s Nov. 2, 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	257	70	128	720	2700	7340	5690	4120	425	334	189	111
2	229	70	122	945	2970	6350	5380	3730	371	416	344	115
3	208	70	113	1170	3250	6550	5010	3350	336	836	799	101
4	190	76	116	1320	3410	6250	4640	3010	303	830	743	106
5	176	74	115	1400	3600	5840	4290	2700	279	838	645	121
6	169	77	121	1480	3760	5320	3980	2400	273	837	589	104
7	166	83	123	1580	3840	4940	3740	2130	320	791	532	95
8	152	79	123	1700	3800	4930	3760	1880	525	738	454	88
9	142	74	123	1870	3660	5360	4260	1620	425	660	390	84
10	133	76	139	2070	3530	5930	4940	1410	359	594	330	81
11	126	79	138	2210	3420	6390	5200	1220	312	554	278	79
12	121	81	160	2300	3270	6660	5080	1070	307	562	241	88
13	116	94	175	2360	3350	6780	4670	946	327	575	220	170
14	111	101	197	2390	4240	6830	4100	833	299	551	226	172
15	105	101	194	2390	4630	7050	3800	734	321	494	296	169
16	101	96	266	2370	4880	7630	4080	725	345	426	329	152
17	97	92	377	2310	5170	8460	4320	685	322	360	273	132
18	94	88	497	2210	5380	9090	4830	652	282	311	234	118
19	90	88	599	2040	5480	9120	5280	611	251	271	196	105
20	89	87	653	1850	5500	8360	5510	551	227	248	175	100
21	86	86	645	1830	5530	8620	5490	494	212	227	164	106
22	89	84	608	2100	5680	8030	5300	440	203	201	146	134
23	88	83	551	2380	5940	7300	5080	421	207	224	135	115
24	86	85	498	2550	6230	6790	5010	452	230	222	125	111
25	82	92	465	2490	6580	6540	5170	577	229	192	115	107
26	78	107	444	2260	7150	6380	5480	808	218	182	113	96
27	76	128	423	2120	7700	6280	5660	935	232	192	110	87
28	74	140	405	2260	7730	6230	5550	900	251	178	105	80
29	73	139	396	2410	---	6150	5130	778	269	171	103	76
30	71	134	491	2550	---	6040	4580	637	297	168	104	73
31	70	---	629	2650	---	5910	---	514	---	170	102	---
TOTAL	3745	2734	10039	62285	132380	210450	145010	41333	9017	13353	9305	3276
MEAN	121	91.1	324	2009	4728	6789	4834	1333	301	431	300	109
MAX	257	140	653	2650	7730	9120	5690	4120	525	833	844	172
MIN	70	70	115	720	2700	4930	3740	421	203	168	102	73
CFSM	.09	.07	.23	1.44	3.38	4.85	3.45	.95	.22	.31	.21	.08
IN.	.10	.07	.27	1.65	3.52	5.59	3.85	1.10	.24	.35	.25	.09
CAL YR 1982	TOTAL	364055	MEAN	997	MAX	4420	MIN	70	CFSM	.71	IN	9.67
WTR YR 1983	TOTAL	642927	MEAN	1761	MAX	9120	MIN	70	CFSM	1.26	IN	17.03

02317718 NEW RIVER NEAR TIFTON, GA.

LOCATION.--Lat 31°26'33", long 83°28'33", Tift County, Hydrologic Unit 03110203, at bridge on U.S. Highway 82, 1.6 mi east of Tifton.

DRAINAGE AREA.--10.4 mi².

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
18...	1435	8.0	--	740	7.5	7.8	22.5	26.0	8.4	98
NOV										
15...	1520	6.0	--	565	7.7	7.9	20.0	19.0	8.8	98
DEC										
14...	1635	23	248	241	7.2	7.3	14.0	14.0	9.6	94
JAN										
24...	1535	30	174	167	7.1	7.1	11.0	12.5	10.1	93
FEB										
22...	1540	125	110	113	7.0	7.0	15.5	19.0	9.7	100
MAR										
22...	0815	36	138	136	6.3	7.0	11.0	4.5	9.3	90
APR										
19...	0820	19	201	196	6.7	7.1	12.5	6.5	8.8	84
MAY										
24...	0700	7.0	418	430	7.0	7.4	23.0	21.0	6.5	77
JUN										
22...	0700	10	310	312	7.0	7.4	24.5	23.5	6.0	73
JUL										
18...	0710	4.0	--	641	7.6	7.8	23.5	27.0	6.8	81
AUG										
15...	0715	3.5	554	577	7.6	7.8	26.5	23.0	6.5	82
SEP										
27...	0700	3.7	--	671	7.6	7.7	22.0	14.0	7.0	81

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINEITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
18...	40	5	2.4	790	145	<1	8.4	.060	5.30	--
NOV										
15...	10	4	2.0	230	133	2	6.8	.090	4.50	--
DEC										
14...	80	13	2.4	430	40	2	2.6	.120	.900	8.4
JAN										
24...	50	8	.3	30	32	2	1.5	.150	.590	8.6
FEB										
22...	250	240	5.6	2300	21	400	1.1	.150	.830	18
MAR										
22...	100	10	.9	230	23	5	1.5	.080	.380	11
APR										
19...	70	10	1.2	330	36	4	2.5	.110	.910	11
MAY										
24...	100	30	--	7900	87	6	1.5	.130	2.50	7.5
JUN										
22...	60	26	1.2	7900	61	7	1.6	.120	1.22	6.8
JUL										
18...	10	5	.7	790	137	3	4.0	.080	3.84	6.5
AUG										
15...	20	4	1.6	3300	98	5	9.2	.090	--	7.0
SEP										
27...	10	5	2.2	110	117	<1	4.2	.060	4.30	8.3

SUWANNEE RIVER BASIN

02317749 WITHLACOOCHEE RIVER ABOVE VALDOSTA, GA.

LOCATION.--Lat 30°55'57", long 83°17'22", Lowndes County, Hydrologic Unit 03110203, at county highway bridge, 1.5 mi upstream from Bay Branch, and 7 mi north of Valdosta.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
20...	1410	14	152	150	--	6.9	20.5	28.0	6.9	77
NOV										
17...	1500	23	277	269	7.2	7.5	15.0	24.5	8.6	86
DEC										
16...	1445	182	--	149	6.3	7.0	14.0	18.0	8.1	79
JAN										
26...	1450	808	67	65	6.1	5.9	7.5	14.0	10.8	91
FEB										
24...	1445	1510	48	51	5.6	5.6	14.0	22.0	7.7	76
MAR										
24...	1445	1900	45	43	5.7	5.6	13.0	8.5	7.0	63
APR										
21...	1435	1810	40	38	5.6	5.6	13.5	23.5	7.9	77
MAY										
26...	1330	431	68	72	6.2	6.3	22.0	29.0	6.2	72
JUN										
21...	1430	57	118	107	6.3	6.5	24.5	26.0	6.0	73
JUL										
20...	1350	16	120	125	6.6	6.9	28.5	33.0	5.8	76
AUG										
17...	1420	46	107	107	6.6	6.9	25.5	32.0	6.0	74
SEP										
29...	1345	28	200	203	7.0	7.5	19.0	28.0	7.2	78

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKAL- INITY LAB (MG/L AS CACO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
20...	120	5	.6	80	23	.33	.020	.270	--
NOV									
17...	80	2	.9	40	46	.66	.030	.250	--
DEC									
16...	140	7	.9	330	17	.30	.030	.210	18
JAN									
26...	120	7	.6	180	4.0	.17	.050	.070	15
FEB									
24...	160	10	.6	90	4.0	.06	.030	.060	22
MAR									
24...	200	7	1.1	90	4.0	.11	.030	.140	21
APR									
21...	200	9	1.0	50	4.0	.08	.070	.100	23
MAY									
26...	140	17	2.0	790	7.0	.22	.060	.170	16
JUN									
21...	100	10	1.4	1300	19	.18	.100	.180	14
JUL									
20...	100	7	1.1	50	18	.20	.070	.210	14
AUG									
17...	110	6	.7	130	12	.23	.030	.190	21
SEP									
29...	70	4	1.1	80	26	.44	.120	.370	14

02317749 WITHLACOOCHEE RIVER ABOVE VALDOSTA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

DATE	TIME	TEMPER- ATURE (DEG C)	PH (STAND- ARD UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	ALKA- LITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CARBON, DIS- ORGANIC TOTAL (MG/L AS C)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
MAY 17...	1445	22.0	6.4	180	19	13	20	1100	30
AUG 31...	1300	26.0	6.1	300	6.0	9.0	23	1600	47

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	TEMPERATURE (DEG C)	PH (STANDARD UNITS)	COLOR (PLATINUM-COBALT UNITS)	ALKALINITY FIELD (MG/L CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	SOLIDS/ RESIDUE	CARBON, ORGANIC TOTAL (MG/L AS C)	IRON, DIS- SOLVED (UG/L AS FE)	MANGANESE, DIS- SOLVED (UG/L AS MN)
							AT 180 DEG. C DIS- SOLVED (MG/L)			
MAY 17...	1500	21.0	6.3	100	8.0	6.0	84	17	890	35
AUG 30...	1400	28.5	6.8	65	22	14	93	11	660	42

[illegible][illegible][illegible]

SUWANNEE RIVER BASIN

02317757 WITHLACOOCHIEE RIVER NEAR VALDOSTA, GA.

LOCATION.--Lat 30°51'00", long 83°20'23", Lowndes County, Hydrologic Unit 03110203, at bridge on State Highway 94, 0.8 mi upstream from Little River, and 4 mi northwest of Valdosta.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 20...	1325	5.6	232	229	--	7.2	20.5	29.5	7.9	89
NOV 17...	1410	5.6	127	124	6.9	7.1	16.0	25.0	8.6	82
DEC 16...	1410	120	--	147	6.8	6.9	13.5	18.5	8.4	81
JAN 26...	1410	940	59	59	6.0	5.6	7.5	14.0	11.8	99
FEB 24...	1405	2700	50	50	5.6	5.6	14.0	21.0	7.3	72
MAR 24...	1420	1650	45	43	5.6	5.7	13.5	5.5	5.8	57
APR 21...	1400	3000	39	37	5.6	5.5	14.0	22.5	7.7	76
MAY 26...	1240	255	97	101	6.2	6.5	23.0	31.5	6.0	71
JUN 21...	1350	42	148	135	6.2	6.5	24.5	24.5	6.1	74
JUL 20...	1320	8.2	208	213	6.8	7.1	27.5	37.5	3.6	46
AUG 17...	1315	70	123	124	6.8	7.0	25.5	31.0	6.2	77
SEP 29...	1315	8.1	204	200	6.9	7.2	19.0	29.0	5.9	64

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- IDITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CACO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 20...	40	6	1.0	1300	25	3.9	.540	.800	--
NOV 17...	30	4	1.4	230	26	.70	.020	.190	--
DEC 16...	120	13	1.6	3900	18	.43	.070	.230	14
JAN 26...	140	9	.6	930	5.0	.17	.080	.130	16
FEB 24...	140	10	.4	230	3.0	.06	.050	.060	21
MAR 24...	150	7	1.0	40	5.0	.09	.040	.140	21
APR 21...	200	9	1.0	230	3.0	.07	.070	.120	22
MAY 26...	160	12	2.6	490	9.0	.61	.100	.260	16
JUN 21...	500	550	13	700000	19	1.5	1.24	2.10	21
JUL 20...	25	3	3.7	330	35	.60	2.42	.410	9.7
AUG 17...	110	8	1.3	790	15	.42	.130	.220	18
SEP 29...	35	3	3.0	330	28	1.3	1.43	.370	7.9

02318500 WITHLACOOCHEE RIVER NEAR QUITMAN, GA.

LOCATION.--Lat 30°47'35", long 83°27'13", Brooks-Lowndes County line, Hydrologic Unit 03110203, at bridge on U.S. Highway 84, 4 mi upstream from Piscola Creek, 6 mi east of Quitman, and 9 mi downstream from Little River.

DRAINAGE AREA.--1,480 mi².

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

REMARKS.--Laboratory chemical analyses by Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Water-discharge records for water years 1929-31, 1938-48 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAE (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 20...	1155	32	120	119	--	7.0	20.5	28.0	7.7	86
NOV 17...	1250	43	147	144	6.9	7.1	16.0	23.0	8.9	91
DEC 16...	1250	445	--	121	6.8	6.9	14.0	18.0	8.8	86
JAN 26...	1255	2200	63	63	6.2	6.0	7.5	13.5	10.6	89
FEB 24...	1250	7300	45	44	5.4	5.6	14.0	21.5	7.5	74
MAR 24...	1310	7200	44	42	5.6	5.8	14.0	8.0	7.0	69
APR 21...	1245	7700	40	39	5.8	5.8	15.0	22.0	6.9	69
MAY 26...	1045	590	68	70	6.1	6.5	23.5	28.0	6.2	74
JUN 21...	1145	155	82	73	6.5	6.8	26.0	26.0	6.4	80
JUL 20...	1100	76	82	89	6.8	6.8	29.0	33.5	6.0	79
AUG 17...	1155	185	73	80	6.6	6.9	26.5	32.5	6.4	80
SEP 29...	1000	255	69	70	6.6	6.8	20.5	25.0	7.5	84

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINEITY LAB (MG/L AS CACO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 20...	80	6	.6	20	16	.82	.030	.530	--
NOV 17...	40	2	.7	35	17	.25	1.24	.810	--
DEC 16...	120	10	.8	4300	13	.36	.120	.240	14
JAN 26...	120	11	.9	430	4.0	.33	.050	.070	14
FEB 24...	140	16	.5	430	3.0	.18	.030	.040	19
MAR 24...	200	11	.8	40	4.0	.12	.030	.130	17
APR 21...	160	12	.8	110	5.0	.10	.060	.110	20
MAY 26...	140	14	.3	2300	10	.40	.100	.150	15
JUN 21...	100	11	.6	170	12	.78	.040	.250	11
JUL 20...	70	11	1.6	<20	13	.66	.100	.300	11
AUG 17...	110	8	.3	110	11	.29	.040	.270	18
SEP 29...	80	11	1.0	50	8.0	.13	.090	.220	15

SUWANNEE RIVER BASIN

02318700 OKAPILCO CREEK AT STATE HIGHWAY 33, NEAR QUITMAN, GA.

LOCATION.--Lat 30°49'32", long 83°33'45", Brooks County, Hydrologic Unit 03110203, at bridge on State Highway 33, 3.0 mi north of Quitman.

DRAINAGE AREA.--269 mi², approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 110 ft, from topographic map.

REMARKS.--Records good except for the period of no gage-height record May 8-27, which is poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,500 ft³/s Mar. 9, 1983, gage height, 14.38 ft. No flow at times most years.EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 17	2000	2280	12.39	Apr. 11	2100	1590	11.71
Mar. 9	0500	*6500	14.38	Apr. 17	0600	2510	12.51
Mar. 21	0700	1500	11.61	Apr. 25	0900	2560	12.54
Mar. 30	1800	1380	11.23				

Minimum discharge, no flow Oct. 30 to Nov. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	.00	.17	88	374	693	942	379	21	154	6.5	2.1
2	12	.00	.16	143	400	578	724	276	18	103	9.0	2.1
3	9.4	.00	.14	281	407	559	620	209	20	75	8.0	2.7
4	7.6	.11	.12	458	423	589	592	185	59	79	6.5	5.9
5	6.1	.13	.13	610	564	565	603	162	81	75	12	9.2
6	5.3	.12	.17	668	653	1530	525	146	61	56	33	5.4
7	5.4	.10	.14	658	656	3490	438	137	117	36	39	3.4
8	4.7	.03	1.8	575	571	5300	476	135	192	23	29	2.2
9	4.0	7.0	3.7	454	464	5740	722	140	144	17	20	1.5
10	3.2	16	4.6	338	394	3540	1030	145	152	14	15	1.1
11	2.7	16	8.5	254	355	2150	1440	150	226	13	9.1	.78
12	2.3	13	15	197	318	1360	1510	140	277	11	6.6	.74
13	1.8	9.7	20	162	328	941	1170	130	237	8.7	5.4	4.3
14	1.3	7.4	25	142	644	699	882	120	150	7.0	7.0	5.7
15	.92	5.5	34	125	721	531	1530	100	96	5.9	7.3	3.6
16	.66	4.0	45	111	1090	440	1980	95	69	5.3	5.6	2.6
17	.44	3.1	55	99	2090	626	2410	90	50	4.6	4.2	2.0
18	.34	2.4	62	91	2110	752	2130	55	37	3.9	3.0	1.5
19	.27	1.8	69	84	1720	886	1610	70	27	3.2	2.3	1.3
20	.21	1.3	75	80	1280	1250	1110	65	21	2.8	1.8	2.5
21	.18	.89	77	108	914	1430	837	70	20	2.7	1.4	2.4
22	.15	.67	74	147	694	1180	650	80	58	2.3	1.0	4.7
23	.14	.59	69	142	567	1190	887	100	63	4.6	.83	4.0
24	.12	.49	65	185	474	1230	1820	95	192	9.6	.66	3.9
25	.09	.43	60	278	564	1040	2430	87	267	6.0	.53	2.8
26	.07	.40	53	393	1100	830	2010	68	329	6.0	.45	1.8
27	.05	.32	47	483	1090	889	1470	57	230	23	.37	1.2
28	.03	.26	43	482	816	1000	985	49	138	17	.37	.89
29	.02	.22	41	379	---	1090	729	42	99	9.7	.54	.63
30	.00	.19	50	322	---	1340	541	33	99	7.5	.53	.46
31	.00	---	69	347	---	1280	---	25	---	7.8	1.9	---
TOTAL	84.49	92.20	1067.63	8894	21781	44713	34803	3665	3550	798.6	238.88	83.40
MEAN	2.73	3.07	34.4	287	778	1443	1160	118	118	25.8	7.71	2.78
MAX	15	16	77	668	2110	5740	2430	379	329	154	39	9.2
MIN	.00	.00	.12	80	318	440	433	25	18	2.3	.37	.46
CFSM	.01	.01	.13	1.07	2.89	5.36	4.31	.44	.44	.10	.03	.01
IN.	.01	.01	.15	1.23	3.01	6.18	4.81	.51	.49	.11	.03	.01
CAL YR 1982	TOTAL	57360.22	MEAN	157	MAX	1310	MIN	.00	CFSM	.59	IN	7.93
WTR YR 1983	TOTAL	119776.20	MEAN	328	MAX	5740	MIN	.00	CFSM	1.22	IN	16.56

02318725 OKAPILCO CREEK AT QUITMAN, Ga.
(Formerly published as Okapilco Creek near Quitman)

LOCATION.--Lat 30°47'10", long 83°31'33", Brooks County, Hydrologic Unit 03110203, at U.S. Highways 84 and 221, 1.8 mi east of Quitman.

DRAINAGE AREA.--278 mi², approximately.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAE (UMHOS)	PH (STAND- ARD UNITS)	PH LAE (STAND- ARD UNITS)	TEMPER- ATURE AIR (DEG C)	TEMPER- ATURE WATER (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 20...	1230	2.1	305	312	--	7.5	20.5	28.0	7.7	86
NOV 17...	1325	4.7	190	175	7.1	7.2	15.5	23.5	3.7	37
DEC 16...	1315	33	--	202	6.6	6.7	13.5	16.5	7.2	70
JAN 26...	1320	297	35	83	6.1	5.9	7.5	14.0	11.3	95
FEB 24...	1315	528	63	63	5.8	5.9	14.0	20.5	7.8	77
MAR 24...	1345	1220	52	50	5.2	5.9	12.5	5.0	7.7	74
APR 21...	1255	924	47	44	6.0	6.2	13.5	22.0	8.3	80
MAY 26...	1115	94	70	72	6.0	6.4	21.5	30.0	5.1	59
JUN 21...	1225	28	118	111	6.6	6.9	24.5	26.0	4.6	56
JUL 20...	1200	4.6	139	146	6.9	7.1	28.0	35.5	3.1	40
AUG 17...	1230	6.3	134	137	7.1	7.3	26.5	31.0	4.8	60
SEP 29...	1230	2.7	250	258	7.5	7.6	20.5	27.0	4.3	48

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- IDITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY LAB (MG/L AS CACO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 20...	60	15	14	7900	93	.57	2.94	2.23	--
NOV 17...	80	6	3.4	930	41	<.02	<.020	.980	--
DEC 16...	80	8	2.4	2300	13	2.0	1.95	.440	10
JAN 26...	110	14	1.2	930	5.0	.85	.110	.110	11
FEB 24...	120	13	1.8	90	5.0	.45	.060	.070	19
MAR 24...	160	17	1.0	56	3.0	.31	.080	.160	17
APR 21...	160	20	1.2	110	5.0	.22	.110	.130	17
MAY 26...	160	22	1.8	1100	10	.43	.240	.250	16
JUN 21...	100	15	3.2	4900	23	.40	.240	.500	13
JUL 20...	80	13	7.6	790	35	.10	1.07	.700	14
AUG 17...	100	20	5.1	7900	36	.26	.620	.840	22
SEP 29...	40	10	7.7	49000	83	.05	3.99	2.64	21

SUWANNEE RIVER BASIN

02318960 WITHLACOOCHEE RIVER NEAR CLYATTVILLE, GA.

LOCATION.--Lat 30°38'07", long 83°18'41", Lowndes County, Hydrologic Unit 03110203, at bridge on State Highway 31, 4.3 mi south of Clyattville.

DRAINAGE AREA.--2,030 mi², approximately.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 20...	1100	118	205	201	--	7.8	20.5	28.0	5.7	64
NOV 17...	1155	120	219	221	7.7	7.9	19.0	22.0	5.9	64
DEC 16...	1145	448	--	128	7.0	7.3	15.0	19.5	7.8	78
JAN 26...	1200	2840	65	63	6.8	6.4	7.5	13.0	11.8	99
FEB 24...	1200	10400	44	43	5.0	5.5	14.0	19.5	7.6	75
MAR 24...	1215	8700	47	47	6.0	6.3	14.0	12.0	6.8	67
APR 21...	1145	13700	38	35	5.6	5.8	15.0	20.0	7.3	73
MAY 26...	1000	1400	84	86	6.3	7.0	22.5	27.0	5.2	61
JUN 21...	1050	692	--	140	7.1	7.6	23.5	26.0	5.9	70
JUL 20...	1010	619	178	185	7.3	7.6	25.5	31.0	4.5	55
AUG 17...	1105	364	135	134	7.3	7.7	25.5	31.0	5.1	63
SEP 29...	1050	392	128	130	7.3	7.7	21.0	25.0	6.2	70

DATE	COLOR (PLAT- INUM- COBAL UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 20...	30	5	11	.2	<20	81	<1	.31	.020	.20	.140	--
NOV 17...	20	1	12	.4	<30	83	<1	1.5	.030	.20	.380	--
DEC 16...	120	8	26	.8	70	24	3	.43	.180	.60	.260	9.4
JAN 26...	120	11	39	.9	930	6.0	6	.35	.040	.70	.090	16
FEB 24...	120	16	37	1.5	40	3.0	1	.18	.070	.60	.050	19
MAR 24...	200	10	47	1.0	90	5.0	1	.13	.040	1.70	.140	18
APR 21...	200	16	45	.5	50	5.0	5	.07	.060	.90	.190	19
MAY 26...	160	17	42	.9	790	22	10	.35	.100	.90	.150	14
JUN 21...	60	10	24	.4	330	52	6	.23	.040	.50	.120	3.9
JUL 20...	50	12	--	.9	<20	69	2	.30	.060	--	.120	5.4
AUG 17...	60	5	--	.5	20	47	<1	.39	.040	--	.140	14
SEP 29...	60	6	--	.6	80	35	<1	.65	.060	--	.420	10

02327205 OCHLOCKONEE RIVER NEAR MOULTRIE, GA.

LOCATION.--Lat 31°08'31", long 83°48'13", Colquitt County, Hydrologic Unit 03120002, at bridge on county road 1 mi from U.S. Highway 319, and 3.0 mi south of Moultrie.

DRAINAGE AREA.--103 mi².

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 19...	0820	7.6	--	768	--	7.7	18.5	17.0	.7	9
NOV 16...	0905	6.0	--	568	6.8	7.2	12.5	11.0	1.5	14
DEC 15...	0910	120	126	127	--	6.7	10.5	15.0	7.0	63
JAN 25...	0820	390	66	67	6.3	6.3	6.0	2.0	9.8	79
FEB 23...	0840	290	75	73	6.1	6.5	13.5	12.5	7.2	70
MAR 23...	0850	340	62	62	6.4	6.5	11.0	9.5	7.9	72
APR 20...	0900	245	63	60	6.2	6.5	12.0	10.5	8.2	77
MAY 25...	0710	30	180	178	--	6.8	21.0	20.5	2.2	25
JUN 23...	0725	8.6	490	490	6.2	7.3	25.5	26.0	.2	2
JUL 19...	0745	3.8	--	254	7.4	7.6	27.5	28.0	.3	3
AUG 16...	0755	4.0	797	888	7.3	7.6	24.5	25.5	1.1	13
SEP 28...	0715	6.3	468	451	6.7	7.2	18.0	14.0	2.0	21

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINEITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 19...	30	6	5.5	1300	114	<1	.12	12.3	2.07	--
NOV 16...	50	2	4.0	4300	86	<1	.36	6.84	1.90	--
DEC 15...	120	18	3.0	2300	10	1	.70	.680	.280	25
JAN 25...	100	16	.5	1300	5.0	<1	.50	.260	.100	13
FEB 23...	120	24	4.0	930	9.0	4	.89	.430	.150	15
MAR 23...	140	15	2.0	150	7.0	9	.46	.240	.200	14
APR 20...	160	23	2.0	490	8.0	9	.45	.230	.210	13
MAY 25...	120	15	6.5	220	29	8	.71	1.97	.610	15
JUN 23...	40	9	10	28000	93	17	<.02	10.4	1.26	15
JUL 19...	50	16	>7.3	330000	158	4	.02	22.0	3.05	21
AUG 16...	20	1	4.0	490	83	<1	7.7	1.79	2.80	8.2
SEP 28...	70	4	5.5	1100	31	<1	12	4.08	1.98	16

OCHLOCKONEE RIVER BASIN

02327500 OCHLOCKONEE RIVER NEAR THOMASVILLE, GA.

LOCATION.--Lat 30°52'32", long 84°02'44", Thomas County, Hydrologic Unit 03120002, at bridge on U.S. Highway 84, 2 mi upstream from Seaboard Coast Line Railroad bridge, 4 mi upstream from Barnetts Creek, 5 mi northwest of Thomasville, and 6 mi downstream from Little Ochlockonee River.

DRAINAGE AREA.--550 mi², approximately.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAK- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAE (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE, WATER (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, SATURATION (PER- CENT)
OCT										
19...	0940	37	225	227	--	7.4	15.5	21.0	5.5	59
NOV										
16...	1030	40	--	338	7.0	7.1	12.5	14.0	5.0	47
DEC										
15...	1020	313	112	115	6.5	6.9	11.5	18.0	8.2	76
JAN										
25...	0935	1700	63	63	6.3	6.2	7.5	5.5	10.1	95
FEB										
23...	0950	1720	65	64	6.3	6.8	14.0	15.0	8.0	79
MAR										
23...	1005	6560	48	48	6.1	6.1	13.0	13.0	7.2	69
APR										
20...	1010	2640	47	46	6.2	6.4	14.0	13.0	7.9	78
MAY										
25...	0830	265	100	102	--	6.6	22.5	23.0	5.1	60
JUN										
23...	0845	210	137	136	6.4	6.9	25.5	25.0	4.6	57
JUL										
19...	0850	42	184	198	6.6	6.9	27.5	29.0	3.1	40
AUG										
16...	0920	50	212	214	7.1	7.6	26.0	26.0	4.1	51
SEP										
28...	0930	52	212	222	6.8	7.2	19.0	18.5	4.7	51

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINEITY LAB (MG/L AS CACO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
19...	70	14	1.3	150	36	1.2	.250	.620	--
NOV									
16...	60	6	3.6	930	45	1.9	1.20	1.20	--
DEC									
15...	120	17	1.2	4300	14	.82	.160	.380	17
JAN									
25...	100	17	1.3	2300	5.0	.43	.050	.100	15
FEB									
23...	120	31	1.2	4300	12	.38	.100	.140	16
MAR									
23...	120	20	1.5	930	5.0	.23	.040	.160	16
APR									
20...	160	21	1.5	170	6.0	.27	.070	.150	16
MAY									
25...	120	25	2.2	25000	15	.75	.180	.330	11
JUN									
23...	100	17	1.7	1100	22	.98	.180	.430	8.1
JUL									
19...	90	16	1.4	330	31	1.3	.360	.660	10
AUG									
16...	90	14	1.8	1700	39	1.5	.240	.630	8.9
SEP									
28...	85	11	1.8	490	35	1.2	.270	.810	12

02328200 OCHLOCKONEE RIVER NEAR CALVARY, GA.

LOCATION.--Lat 30°43'53", long 84°14'12", Grady County, Hydrologic Unit 03120003, at county highway bridge, 1.5 mi downstream from Tired Creek, and 6.5 mi east of Calvary.

DRAINAGE AREA.--930 mi², approximately.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
19...	1015	76	203	205	--	7.3	13.5	21.5	7.8	84
NOV										
16...	1050	105	298	294	7.1	7.2	12.5	15.5	8.8	83
DEC										
15...	1050	470	152	153	--	7.2	12.0	21.5	8.9	83
JAN										
25...	1015	2550	71	71	6.4	6.4	7.5	6.0	10.0	84
FEB										
23...	1025	3410	58	57	6.1	6.3	13.0	15.0	7.9	76
MAR										
23...	1045	5200	49	51	6.2	6.3	13.5	14.5	6.9	67
APR										
20...	1045	5000	49	47	6.1	6.2	14.0	15.5	7.7	76
MAY										
25...	1010	730	124	127	--	6.6	22.5	26.5	5.7	67
JUN										
23...	0925	720	90	95	6.2	6.7	24.5	26.0	6.2	75
JUL										
19...	0930	150	144	147	6.7	7.0	27.0	29.5	5.1	65
AUG										
16...	1010	175	178	186	7.0	7.2	25.5	26.5	6.2	76
SEP										
23...	0930	180	137	137	7.0	7.3	19.0	23.0	7.0	76

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINEITY LAB (MG/L AS CAC03)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
19...	140	17	.8	50	28	<1	1.7	.040	.500	--
NOV										
16...	60	7	1.1	150	28	<1	1.7	.070	.560	--
DEC										
15...	120	23	2.4	4300	15	8	.70	.150	.280	11
JAN										
25...	120	23	1.5	2300	6.0	<1	.38	.050	.100	15
FEB										
23...	120	21	.8	260	6.0	<1	.35	.080	.090	12
MAR										
23...	160	20	1.1	430	5.0	8	.23	.040	.170	16
APR										
20...	200	21	2.2	130	5.0	8	.17	.050	.130	16
MAY										
25...	160	25	1.9	490	12	15	.58	.160	.240	11
JUN										
23...	110	33	1.9	22000	11	42	.70	.160	.280	12
JUL										
19...	--	18	.6	130	26	8	.96	.140	.310	8.5
AUG										
16...	100	17	.9	80	26	9	1.8	.100	.400	8.1
SEP										
28...	95	15	1.6	90	21	1	.85	.050	.410	12

02330450 CHATTAHOOCHEE RIVER AT HELEN, GA.

LOCATION.--Lat 34°42'03", long 83°43'44", White County, Hydrologic Unit 03130001, on downstream side of bridge on Georgia Highways 17 and 75 at Helen, and 1.1 mi downstream from Smith Creek.

DRAINAGE AREA.--44.7 mi².

PERIOD OF RECORD.--May 1981 to current year. Miscellaneous low-flow measurements, water years 1953, 1955.

GAGE.--Water-stage recorder. Datum of gage is 1,404.04 ft, National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Some regulation at low flow on Smith Creek by Unicoi Lake at Unicoi State Park.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,260 ft³/s Feb. 2, 1983, gage height, 5.54 ft; minimum daily discharge, 28 ft³/s Oct. 7, 8, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 23, 1967, reached a discharge of 11,000 ft³/s from contracted-opening computation at highway bridge 2 mi downstream at a drainage area of 48.2 mi².

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 5	1430	2960	5.34	Apr. 9	1445	1780	4.23
Feb. 2	0415	*3260	5.54	May 19	2330	1370	3.57

Minimum daily discharge, 40 ft³/s Sept. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	51	410	196	200	184	235	215	186	105	104	62
2	44	52	300	238	1230	170	363	210	177	97	88	93
3	44	92	236	219	462	163	317	224	173	95	78	65
4	44	86	218	200	358	159	271	209	188	92	71	120
5	46	65	1260	188	310	159	338	193	172	101	67	71
6	44	61	690	182	351	368	446	186	163	94	66	55
7	55	59	393	174	308	242	368	180	164	68	65	52
8	130	58	303	168	276	296	589	182	167	37	64	53
9	70	56	262	163	261	247	1210	175	156	64	63	49
10	90	56	232	165	273	219	790	169	146	31	60	46
11	225	55	284	161	284	202	548	165	140	79	59	49
12	110	90	382	157	258	195	450	162	136	78	63	44
13	400	87	274	149	242	186	390	165	132	77	58	68
14	140	72	238	148	245	180	390	158	129	76	56	58
15	92	67	287	144	225	175	432	160	124	77	56	48
16	78	63	423	139	217	170	372	206	121	76	55	44
17	71	70	309	137	210	193	343	160	169	88	56	43
18	67	93	265	134	201	183	333	152	161	83	54	41
19	64	116	250	131	194	171	308	734	133	79	50	41
20	64	101	224	134	187	235	287	661	125	110	49	85
21	54	126	207	375	183	331	273	491	120	83	48	171
22	59	169	194	397	257	233	264	400	120	73	47	73
23	58	134	185	274	276	206	309	366	115	70	46	56
24	57	119	179	227	232	217	349	310	111	80	47	49
25	58	103	188	205	213	199	286	276	109	79	43	47
26	56	97	175	191	197	209	260	252	105	74	48	44
27	54	92	174	185	189	540	247	233	114	70	44	42
28	53	144	356	173	186	369	236	221	120	67	43	41
29	53	316	288	167	---	296	225	218	108	65	42	40
30	53	181	228	166	---	260	220	206	102	63	41	40
31	52	---	208	157	---	263	---	193	---	67	73	---
TOTAL	2540	2931	9627	5844	8027	7220	11449	7837	4186	2538	1314	1790
MEAN	81.9	97.7	311	189	257	233	382	253	140	81.9	58.5	59.7
MAX	400	316	1260	397	1230	540	1210	734	188	110	104	171
MIN	44	51	174	131	183	159	220	152	102	63	41	40
CFSM	1.34	2.19	6.97	4.24	6.44	5.22	8.57	5.67	3.14	1.84	1.31	1.34
IN.	2.12	2.44	8.03	4.87	6.70	6.02	9.55	6.54	3.49	2.12	1.51	1.49
CAL YR 1982	TOTAL	50151	MEAN 137	MAX 1260	MIN 44	CFSM 3.07	IN 41.83					
WTR YR 1983	TOTAL	65303	MEAN 180	MAX 1260	MIN 40	CFSM 4.04	IN 54.88					

02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA.

LOCATION.--Lat 34°32'27", long 83°37'14", Habersham-White County line, Hydrologic Unit 03130001, on downstream side of highway bridge, 1 mi downstream from Soquee River, 6 mi northwest of Cornelia, and at mile 401.4.
DRAINAGE AREA.--315 mi².

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, National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Records good. Some regulation at low flow from Habersham Mill powerplant.

AVERAGE DISCHARGE.--26 years, 854 ft³/s, 36.82 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,400 ft³/s Mar. 12, 1963, gage height, 20.55 ft, from rating curve extended above 13,000 ft³/s on basis of contracted-opening measurement of peak flow; minimum daily, 91 ft³/s Sept. 7, 1957.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 5	1930	6710	6.84	Apr. 9	1730	7030	7.09
Feb. 2	1030	*13300	11.33				

Minimum daily discharge, 190 ft³/s Oct. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	275	374	1960	848	774	909	1130	1110	950	755	709	396
2	224	339	1430	1110	6760	356	1870	1100	924	682	632	470
3	190	374	1070	1140	2240	840	1500	1090	906	653	585	510
4	268	541	937	976	1490	308	1270	1090	939	623	523	1000
5	268	434	2960	904	1240	324	1300	1040	894	794	474	625
6	270	280	2450	364	1350	1910	2150	1010	901	854	481	513
7	274	333	1430	332	1350	1260	1540	999	888	635	338	456
8	634	392	1140	784	1190	1260	3350	1010	1070	562	480	402
9	416	371	1010	776	1100	1080	5430	992	1240	594	448	354
10	383	344	921	802	1070	1000	3260	957	902	575	415	294
11	806	331	1130	784	1140	938	2200	942	332	587	399	265
12	563	334	2430	760	1040	924	1870	929	916	576	421	426
13	2450	505	1360	725	1000	897	1670	956	811	562	384	524
14	1180	418	1090	711	1040	893	1620	934	776	541	381	479
15	711	439	1020	683	983	363	1630	908	763	519	338	451
16	571	392	1700	663	950	847	1500	1190	753	510	337	387
17	446	390	1210	703	928	957	1430	967	754	529	344	363
18	511	425	1050	668	899	986	1410	902	925	630	341	226
19	440	645	1020	655	869	902	1340	2480	827	608	331	366
20	426	580	970	620	862	936	1290	3000	812	593	295	411
21	426	617	892	1050	858	1310	1250	1800	752	587	196	962
22	390	839	848	1310	993	1160	1220	1530	737	526	356	647
23	344	737	848	1280	1720	1030	1330	1960	724	507	298	498
24	239	676	800	1050	1150	1090	1750	1390	704	344	301	455
25	409	530	808	934	1010	1150	1390	1240	665	548	349	263
26	367	530	792	974	950	1110	1280	1150	666	510	356	429
27	348	508	760	848	914	3340	1220	1090	682	461	328	397
28	346	540	1110	822	909	1830	1190	1050	814	452	194	333
29	339	1520	1250	772	---	1380	1160	1020	720	433	352	300
30	317	956	960	788	---	1230	1130	1020	667	433	326	299
31	212	---	996	778	---	1240	---	980	---	275	271	---
TOTAL	15043	15744	38302	27040	36779	36310	51680	37836	24214	17484	11983	13501
MEAN	485	525	1236	372	1314	1171	1723	1222	327	564	387	450
MAX	2450	1520	2960	1810	6760	3340	5430	3000	1240	354	709	1000
MIN	190	280	760	620	774	808	1130	902	665	275	194	226
CFSM	1.54	1.67	3.92	2.77	4.17	3.72	5.47	3.88	2.63	1.79	1.23	1.43
IN.	1.78	1.85	4.52	3.19	4.34	4.29	6.10	4.47	2.93	2.06	1.42	1.59

CAL YR 1982	TOTAL	277027	MEAN 759	MAX 9870	MIN 190	CFSM 2.41	IN 32.72
WTR YR 1983	TOTAL	326566	MEAN 895	MAX 6760	MIN 190	CFSM 2.84	IN 38.57

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV 09...	1530	390	29	26	7.3	7.2	10.0	26.5	11.3	102
JAN 12...	1200	768	23	23	7.1	6.9	7.0	5.0	11.0	94
MAR 09...	1145	1090	23	22	7.1	6.9	12.5	16.0	9.9	98
MAY 12...	1300	944	22	29	--	7.0	19.0	30.0	9.5	106
JUL 14...	0800	524	26	27	7.0	6.9	22.5	24.0	7.6	92
SEP 14...	1130	511	25	28	7.1	7.2	21.0	25.0	8.8	101

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINEITY LAB (MG/L AS CaCO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 09...	7	.9	230	8.0	.13	.040	.030	--
JAN 12...	3	1.4	90	7.0	.22	.030	<.020	1.4
MAR 09...	15	.6	930	6.0	.20	.030	.020	1.4
MAY 12...	8	2.2	1300	8.0	.19	.040	<.020	<.1
JUL 14...	12	1.5	130	8.0	.12	.060	.020	3.8
SEP 14...	14	1.0	13000	10	.23	.080	.040	3.3

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT 25...	1445	390	12.0	6	6.3
DEC 07...	1300	1470	11.0	28	111
JAN 19...	1300	655	3.0	3	5.3
MAR 01...	1340	920	9.0	5	12
MAY 23...	1215	1880	17.5	76	386
JUL 07...	0845	655	21.0	29	51
AUG 15...	1240	372	21.5	10	10

APALACHICOLA RIVER BASIN

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02333500 CHESTATEE RIVER NEAR DAHLONEGA, GA.

LOCATION.--Lat 34°31'41", long 83°56'23", Lumpkin County, Hydrologic Unit 03130001, on left bank 250 ft upstream from Bearden Bridge on State Highway 52, 2 mi downstream from Ballplay Creek, 2.5 mi east of Dahlonega, and 3.5 mi upstream from Yahoola Creek.

DRAINAGE AREA.--153 mi².

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, National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Records good.

AVERAGE DISCHARGE.--45 years (1929-31, 1940-83), 369 ft³/s, 32.75 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,700 ft³/s Aug. 23, 1967, gage height, 25.17 ft; minimum daily, 49 ft³/s Oct. 4, 1931, Oct. 26, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 12, 1907 reached a stage of about 25 ft, from information by local resident. Flow increased by failure of dam above station.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,600 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 13	1400	2910	6.61	Apr. 9	1700	4780	9.33
Dec. 5	1800	*5460	10.20	May 19	1730	2930	6.67
Feb. 2	0945	5160	9.72				

Minimum discharge, 102 ft³/s Aug. 31, gage height, 0.79 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	111	139	1150	394	352	390	535	464	407	261	357	150
2	109	132	898	591	2750	366	699	449	399	246	286	198
3	107	170	843	568	968	354	620	452	378	234	264	186
4	107	236	549	472	658	346	555	449	412	226	195	266
5	109	171	2330	428	549	344	584	418	395	261	184	188
6	106	155	1560	405	675	932	1090	404	372	290	177	153
7	110	150	358	323	641	552	764	396	375	229	201	141
8	298	147	612	365	558	584	1860	407	408	219	181	134
9	172	145	501	351	510	506	3470	386	512	214	174	143
10	153	142	430	348	498	455	1950	374	363	208	163	130
11	661	140	596	348	532	424	1250	366	339	203	156	127
12	226	157	1280	333	476	403	1010	360	324	214	170	123
13	1280	273	666	321	449	387	878	404	313	197	156	212
14	525	184	514	315	460	375	833	406	305	193	149	185
15	293	169	474	308	431	367	880	363	298	188	145	152
16	223	158	977	299	411	357	773	588	290	189	143	146
17	195	160	602	297	400	407	706	412	290	185	140	142
18	182	213	512	289	388	419	677	366	361	229	143	135
19	172	257	497	283	375	376	631	1530	321	213	135	131
20	169	230	455	287	364	441	596	1690	303	207	129	166
21	170	224	409	499	355	897	567	1100	287	205	125	532
22	160	339	383	837	529	565	548	894	286	185	121	265
23	155	302	365	620	750	479	584	1040	276	175	117	191
24	153	295	351	468	520	520	793	744	266	185	118	164
25	152	252	344	418	454	523	617	626	258	199	125	150
26	149	229	338	378	416	506	562	562	250	189	127	138
27	145	219	331	363	393	1560	531	512	246	173	120	136
28	143	225	582	352	384	597	510	476	285	163	115	131
29	143	791	634	334	---	666	491	466	275	159	110	126
30	140	444	476	340	---	577	477	467	256	155	105	123
31	140	---	420	324	---	603	---	422	---	165	105	---
TOTAL	6938	6854	20837	12323	16246	16578	26041	18193	9840	6359	4936	5164
MEAN	224	228	672	398	580	535	868	587	328	205	159	172
MAX	1280	791	2330	837	2750	1560	3470	1890	512	290	357	532
MIN	106	138	331	283	352	344	477	360	246	155	105	123
CFSM	1.46	1.49	4.39	2.60	3.79	3.50	5.67	3.84	2.14	1.34	1.04	1.12
IN.	1.69	1.67	5.07	3.00	3.95	4.03	6.33	4.42	2.39	1.55	1.20	1.26
CAL YR 1982 TOTAL	129059			MEAN 354	MAX 5700	MIN 106	CFSM 2.31	IN 31.38				
WTR YR 1983 TOTAL	150309			MEAN 412	MAX 3470	MIN 105	CFSM 2.69	IN 36.55				

APALACHICOLA RIVER BASIN

02334430 CHATTAHOOCHEE RIVER AT BUFORD DAM, NEAR BUFORD, GA.

LOCATION.--Lat 34°09'25", long 84°04'44", Gwinnett-Forsyth County line, Hydrologic Unit 03130001, on right bank 1,200 ft downstream from Buford Dam, 2.4 mi upstream from bridge on State Highway 20, 4 mi northwest of Buford, and at mile 348.1.

DRAINAGE AREA.--1,040 mi², 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.--WDR GA-79-1: 1972-78 (maximum gage heights only). See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 912.04 ft, National Geodetic Vertical Datum of 1929 (levels by U.S. Army 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 downstream, and Jan. 1, 1948, to Sept. 30, 1971, water-stage recorder at site 2.4 mi downstream, all at different datum.

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier beginning January 1956 (See "Lakes and Reservoirs in Apalachicola River basin", station 02334400.)

AVERAGE DISCHARGE.--42 years, 2,146 ft³/s, 28.02 in/yr, adjusted for storage since 1956.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,000 ft³/s Jan. 8, 1946, gage height, 32.6 ft, from floodmark, from rating curve extended above 13,000 ft³/s on basis of peak flows passing upstream and downstream stations; minimum daily, 262 ft³/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, 9,330 ft³/s Feb. 16, gage height, 6.08 ft; minimum daily discharge, 449 ft³/s Mar. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2170	1110	1140	372	1350	2370	6220	819	3070	2580	3080	3520
2	499	1110	1130	378	2370	2390	554	2340	3080	493	1730	3520
3	853	1100	1590	2710	4370	2370	810	2670	3080	332	3070	504
4	1760	1110	887	2670	3920	2370	6330	2000	491	2830	3090	868
5	1760	1100	934	4320	483	449	4640	2330	821	4310	3110	2670
6	1770	881	1130	4340	820	830	6360	2340	2420	4300	499	2670
7	1610	878	1120	4340	4400	2700	6390	490	2420	4310	928	2680
8	1610	1110	1190	367	4410	3350	1340	327	2410	4310	3080	1660
9	513	1100	1100	371	4190	3360	514	2800	2440	493	3080	1680
10	724	1110	1100	2720	2420	3360	499	2810	2340	828	3090	515
11	1640	1100	900	2730	4380	3350	5710	2810	491	1480	3510	866
12	1640	1110	905	2750	430	452	5700	2820	828	1430	4460	1660
13	548	397	5400	2730	811	786	5690	2810	2230	1490	495	525
14	1120	898	5570	2740	3370	2700	2870	491	2230	1480	843	1660
15	1120	1130	1650	368	4630	2910	5690	820	2230	1480	3520	1650
16	960	1160	4730	873	4940	2900	482	1520	2240	495	3320	1650
17	970	1140	5280	1870	3360	2900	817	2360	2230	826	3680	523
18	1110	1140	884	1860	5320	3400	6650	4180	491	3060	4060	879
19	1120	1130	862	1850	477	1200	6980	1720	824	3040	3350	1880
20	1120	877	2990	1840	817	1210	6990	4200	2950	1840	1700	1000
21	1120	895	2990	1840	2370	2920	6030	5710	2960	1610	843	1470
22	1120	1140	2990	491	2410	2910	2380	3410	2230	3590	4170	1470
23	971	1140	2970	313	2350	2950	485	3930	2240	824	4270	1480
24	972	1150	2970	2200	2390	2890	803	3740	2230	828	3670	908
25	1120	1130	875	2150	2390	2920	4940	3730	492	3060	3570	919
26	1110	1140	875	2140	453	481	3690	3710	831	3060	2810	1690
27	1110	887	1540	2120	785	834	3700	3730	1550	3080	502	1680
28	1100	895	1020	2180	2360	3720	3610	488	2580	3070	355	1680
29	1100	1150	1540	550	---	6140	3810	821	2580	3070	3480	1680
30	980	1140	1540	825	---	6230	488	3070	2580	496	3520	1700
31	977	---	1540	2380	---	6220	---	3080	---	336	3520	---
TOTAL	36297	31858	61342	62388	73026	83572	111177	78576	59589	65481	84805	47257
MEAN	1171	1062	1979	2013	2608	2696	3706	2535	1986	2112	2736	1575
MAX	2170	1160	5570	4340	5320	6230	6990	5710	3080	4310	4460	3520
MIN	499	877	862	491	453	449	482	488	491	493	495	504
MEAN†	1394	1366	3189	1927	3265	3026	4040	2725	1520	822	526	1049
CFSM†	1.34	1.31	3.07	1.85	3.14	2.91	3.88	2.62	1.46	.79	.51	1.01
INT†	1.55	1.47	3.53	2.14	3.27	3.35	4.33	3.03	1.63	.91	.58	1.12
CAL YR 1982 TOTAL	430380			MEAN 1179	MAX 5570	MIN 482	MEAN† 1975	CFSM† 1.90	INT† 25.79			
WTR YR 1983 TOTAL	795368			MEAN 2179	MAX 6990	MIN 449	MEAN† 2062	CFSM† 1.98	INT† 26.91			

† 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-Fulton County line, Hydrologic Unit 03130001, on downstream side of right bank pier of bridge on State Highway 141, 1.5 mi upstream from John Creek, 4.5 mi north of Norcross, 6.5 mi downstream from Suwanee Creek, 18 mi downstream from Buford Dam, and at mile 330.8.

DRAINAGE AREA.--1,170 mi², 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, National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to July 13, 1955, nonrecording gage at site 500 ft downstream at same datum. July 14, 1955, to Mar. 11, 1957, nonrecording gage at present site and datum.

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversion and return flow above station regulated by Gwinnett County.

AVERAGE DISCHARGE.--71 years, 2,314 ft³/s, 26.82 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,000 ft³/s Jan. 8, 1946, gage height, 27.7 ft, from rating curve extended above 36,000 ft³/s on basis of computation of peak flow over Morgan Falls Dam; minimum observed, 132 ft³/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, 9,440 ft³/s Apr. 6, gage height, 10.71 ft; minimum daily, 635 ft³/s Aug. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	2770	900	1910	1480	2680	2550	7060	778	3510	3030	2400	3830		
2	1520	1290	1470	1780	3380	2630	3640	1960	3510	1530	2840	3920		
3	802	1300	1770	2490	4980	2610	952	3740	3500	714	2580	2250		
4	1550	1350	1390	3450	5110	2600	4980	1950	1920	2590	3410	970		
5	2000	1310	1850	4790	2280	1650	5570	2650	732	3980	3420	2330		
6	2020	1430	1540	5060	978	2280	7080	2780	1990	4840	1890	2960		
7	2030	1010	1500	5030	3580	2690	7480	1850	2830	4800	808	2960		
8	2130	866	1430	2470	5220	3660	6070	759	2830	4800	2370	2250		
9	1350	1290	1390	1090	5170	3790	2810	2270	2810	2430	3380	1350		
10	844	1300	1360	2130	4850	3750	1340	3190	2810	698	3420	1050		
11	1530	1310	1760	3180	3260	3770	4690	3230	1830	1570	3930	818		
12	2190	1330	2160	3160	2800	1910	6580	3220	842	1700	4400	1380		
13	2740	1550	3970	3220	316	788	6510	3230	1950	1710	2130	1340		
14	1350	1040	7080	3190	3000	2310	4340	1990	2520	1700	635	1400		
15	1450	1110	3860	2140	4210	3070	5700	792	2540	1690	2840	1880		
16	1630	1220	3810	1060	6770	3200	2710	1720	2540	1080	3650	1860		
17	1140	1230	6030	1580	4000	3230	849	2230	2520	664	3830	1240		
18	872	1260	2800	2190	5600	3640	5160	4640	1450	2600	4040	819		
19	1290	1290	1150	2180	2430	2160	7760	3060	897	3400	4280	1780		
20	1310	1140	2320	2160	785	1470	7810	4970	2260	2780	2240	1420		
21	1330	1020	3540	2190	2030	3050	7770	5430	3350	1880	1410	1810		
22	1310	1120	3480	1520	3150	3330	3470	4310	2980	2860	3290	1720		
23	1520	1230	3470	837	3230	3300	1820	4800	2670	2200	4510	1660		
24	1090	1230	3460	2490	2820	3460	848	4270	2610	1020	4190	1220		
25	662	1220	2240	2520	2720	3490	4390	4250	1560	2260	3830	982		
26	1300	1210	1070	2510	1600	2010	4360	4230	707	3390	3600	1280		
27	1290	1120	1380	2520	782	1720	4290	4220	1540	3420	1300	1870		
28	1290	1000	1830	2520	1960	3410	4280	2240	2550	3400	655	1870		
29	1280	1360	1400	1200	---	6040	4360	764	2920	3380	2900	1870		
30	1520	1470	1830	826	---	7030	2170	2610	2930	1860	3370	1870		
31	1050	---	1920	2020	---	7100	---	3530	---	744	3820	---		
TOTAL	46360	36506	76090	74983	90191	97793	136849	91663	69608	74720	91368	54459		
MEAN	1495	1217	2455	2419	3221	3155	4562	2957	2320	2410	2947	1815		
MAX	2770	1550	7080	5060	6770	7100	7810	5430	3510	4840	4510	3920		
MIN	802	866	1070	826	782	788	848	759	707	664	635	818		
CAL YR 1982	TOTAL	523069	MEAN	1433	MAX	7080	MIN	669	MEAN+	2229	CFSM+	1.90	IN+	25.86
WTR YR 1983	TOTAL	940595	MEAN	2577	MAX	7810	MIN	635	MEAN+	2460	CFSM+	2.10	IN+	28.54

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

APALACHICOLA RIVER BASIN

02335450 CHATTAHOOCHEE RIVER ABOVE ROSWELL, GA.

LOCATION.--Lat 33°59'09", long 84°18'58", Fulton County, Hydrologic Unit 03130001, on right bank 3.3 mi upstream from Big Creek and bridge on U.S. Highway 19, 3.6 mi southeast of Roswell, and at mile 320.6.

DRAINAGE AREA.--1,220 mi², approximately.

PERIOD OF RECORD.--October 1941 to May 1960 (published as 02335500, Chattahoochee River "near Roswell"), July 1976 to current year.

GAGE.--Water-stage recorder. Datum of gage is 858.01 ft, National Geodetic Vertical Datum of 1929. Prior to July 7, 1976, at site 1.8 mi downstream at datum 8.51 ft lower.

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions above station by Gwinnett and DeKalb Counties; return flows above station by Gwinnett County.

AVERAGE DISCHARGE.--25 years, 2,127 ft³/s, 23.68 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,000 ft³/s Jan. 8, 1946 (gage height, 23.4 ft site and datum then in use, from floodmark), from rating curve extended above 30,000 ft³/s on basis of computation of peak flow over Morgan Falls Dam 6 miles downstream; minimum daily, 315 ft³/s Aug. 11, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,700 ft³/s Apr. 8, gage height, 8.29 ft; minimum daily discharge, 430 ft³/s Aug. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1932 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEE	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	2760	955	2520	1530	3060	2810	6610	584	3580	3370	1550	3760		
2	2090	1190	1840	2320	3870	2760	4530	1260	3480	2260	3150	4140		
3	538	1170	1760	2760	4960	2740	705	3580	3480	604	2110	3050		
4	1070	1300	1740	3380	5180	2590	3780	2140	2650	1890	3340	1050		
5	1890	1240	2520	3830	2940	2100	5760	2430	602	4030	3350	1940		
6	1900	1300	2290	5340	1120	3270	6750	2830	1370	4890	2660	2940		
7	2060	943	1790	5050	3200	3020	7350	2300	2880	4790	532	2920		
8	2200	932	1560	3200	5230	3600	7820	569	2890	4790	1620	2460		
9	1750	1220	1530	1090	5140	3800	3430	1460	2850	3290	3310	1800		
10	604	1270	1470	1980	5160	3320	1530	3160	2820	527	3360	1330		
11	1060	1290	1970	3330	3080	3860	3610	3220	2460	1080	3840	526		
12	2280	1320	2970	3280	3350	2440	6480	3130	590	1670	4230	1130		
13	4080	1460	3130	3310	618	656	6420	3160	1460	1720	2970	1380		
14	1540	1050	6710	3280	2600	2090	5050	2690	2520	1650	470	1030		
15	1430	1160	4980	2370	5700	3060	4730	563	2540	1630	1520	1900		
16	1480	1270	2600	996	6860	3240	3720	1410	2540	1360	3580	1840		
17	1050	1340	5630	1610	4120	3260	711	2020	2520	459	3690	1540		
18	926	1410	3750	2270	5060	3520	4080	4460	1990	1740	3910	593		
19	1180	1460	1210	2300	3510	2250	7570	4070	745	3320	4300	1320		
20	1220	1170	2090	2280	653	1300	7580	4690	1600	3020	2450	1800		
21	1270	1040	3440	2340	1810	3100	7570	5300	3360	1850	1720	1970		
22	1250	1320	3360	1790	3410	3720	4350	4430	3140	2310	2320	1750		
23	1270	1360	3310	749	3590	3700	1960	4710	2750	2900	4380	1680		
24	1030	1410	3320	2270	2990	3690	765	4260	2650	832	4150	1410		
25	962	1360	2370	2620	2870	3740	3350	4230	2240	1380	3740	937		
26	1200	1400	1090	2560	1900	2280	4750	4200	559	3360	3660	956		
27	1170	1160	1360	2630	653	1600	4220	4200	1150	3360	1750	1880		
28	1200	1080	1980	2570	1830	2300	4230	3140	2270	3310	430	1850		
29	1170	1880	1420	1470	---	5250	4270	683	2930	3320	2170	1840		
30	1170	1900	1930	677	---	6490	2630	1700	3030	2640	3240	1880		
31	947	---	1900	1720	---	5610	---	3520	---	500	3810	---		
TOTAL	45797	38360	72530	76902	94664	99266	136361	90119	69676	73852	87612	55102		
MEAN	1477	1279	2565	2481	3381	3202	4545	2907	2323	2382	2826	1837		
MAX	4080	1900	6710	5340	6860	6610	7820	5300	3580	4890	4380	4140		
MIN	538	932	1090	677	653	656	705	563	559	459	430	526		
CAL YR 1982	TOTAL	524928	MEAN	1438	MAX	7600	MIN	496	MEAN+	2234	CFSM+	1.83	IN+	24.86
WTR YR 1983	TOTAL	947241	MEAN	2595	MAX	7820	MIN	430	MEAN+	2478	CFSM+	2.03	IN+	27.57

+ ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

APALACHICOLA RIVER BASIN

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02335700 BIG CREEK NEAR ALPHARETTA, GA.

LOCATION.--Lat 34°03'02", long 84°16'10", Fulton County, Hydrologic Unit 03130001, on left bank at downstream side of county highway bridge, 2.6 mi southeast of Alpharetta, and 9.4 mi upstream from mouth.

DRAINAGE AREA.--72 mi², approximately.

PERIOD OF RECORD.--May 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 960.80 ft, National Geodetic Vertical Datum of 1929 (levels by U.S. Soil Conservation Service).

REMARKS.--Records good.

AVERAGE DISCHARGE.--23 years, 116 ft³/s, 21.88 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,100 ft³/s Feb. 3, 1982, gage height, 13.05 ft; minimum daily, 6.4 ft³/s Sept. 29, 1981.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 13	1400	849	8.06	Mar. 7	0900	1050	8.85
Dec. 6	2400	820	7.87	Apr. 9	1800	*1150	9.08
Feb. 3	1400	820	7.87				

Minimum discharge, 11 ft³/s Aug. 29, gage height, 1.32 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	42	268	93	112	130	146	100	78	84	52	20
2	26	44	232	324	621	113	198	98	76	81	49	47
3	26	46	132	316	741	105	169	100	75	60	38	75
4	27	64	102	163	240	101	137	110	75	56	33	111
5	28	51	418	129	149	101	130	97	73	60	32	67
6	27	47	690	115	203	785	219	93	76	123	31	47
7	32	45	466	108	222	942	234	90	37	68	29	51
8	64	45	151	102	160	251	575	87	88	55	27	43
9	58	45	120	93	140	163	1020	85	77	51	27	36
10	49	45	108	95	132	138	845	84	70	47	25	33
11	110	45	248	103	133	128	311	83	66	43	23	31
12	70	52	619	96	119	121	191	81	63	42	22	41
13	522	96	578	90	113	116	162	89	60	40	21	100
14	522	59	182	88	129	112	148	107	58	40	19	73
15	164	51	144	88	122	110	147	86	57	37	18	59
16	81	50	207	35	112	108	134	213	56	36	17	43
17	65	50	142	84	109	111	127	173	55	35	17	38
18	56	95	122	82	103	114	136	105	58	34	18	34
19	51	104	132	80	101	109	135	317	86	32	17	31
20	50	73	122	82	97	136	123	563	88	33	16	45
21	67	65	108	94	94	278	118	370	69	33	14	92
22	52	66	101	148	200	157	116	184	66	31	14	58
23	48	61	97	151	381	126	124	143	79	29	14	41
24	46	57	95	125	218	181	153	118	78	31	14	35
25	44	52	95	110	147	232	124	105	71	41	14	31
26	44	50	91	102	125	181	114	99	60	43	17	29
27	43	50	90	110	116	502	111	92	57	34	16	28
28	43	53	124	112	112	532	107	87	67	31	14	27
29	43	196	136	102	---	209	105	89	89	29	12	26
30	43	177	102	107	---	154	103	96	67	27	12	25
31	43	---	94	100	---	171	---	83	---	30	13	---
TOTAL	2571	1966	6316	3682	5251	6747	6462	4227	2125	1416	690	1417
MEAN	82.9	65.5	204	119	188	218	215	136	70.8	45.7	22.3	47.2
MAX	522	196	690	324	741	942	1020	563	89	123	52	111
MIN	26	42	90	80	94	101	103	81	55	27	12	20
CFSM	1.15	.91	2.83	1.65	2.61	3.03	2.99	1.89	.98	.64	.31	.66
IN.	1.33	1.02	3.26	1.90	2.71	3.49	3.34	2.18	1.10	.73	.36	.73
CAL YR 1982	TOTAL	48633	MEAN 133	MAX 4480	MIN 25	CFSM 1.85	IN 25.13					
WTR YR 1983	TOTAL	42370	MEAN 117	MAX 1020	MIN 12	CFSM 1.63	IN 22.15					

APALACHICOLA RIVER BASIN

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02336000 CHATTAHOOCHEE RIVER AT ATLANTA, GA.

LOCATION.--Lat 33°51'33", long 84°27'16", Fulton-Cobb County line, Hydrologic Unit 03130001, on left bank 20 ft upstream from Paces Ferry Bridge, at Atlanta, 1 mi downstream from Rottenwood Creek, 2.5 mi upstream from Peachtree Creek, and at mile 303.0.

DRAINAGE AREA.--1,450 mi², approximately.

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, National Geodetic Vertical Datum of 1929. 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 upstream.

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions above station by Gwinnett, DeKalb, and Cobb Counties; return flows above station by Gwinnett and Cobb Counties. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant 9.5 mi above station. Records of chemical analyses for the water years 1974-79 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--50 years, 2,602 ft³/s, 24.37 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,000 ft³/s Jan. 9, 1946, gage height, 28.0 ft; minimum daily, 296 ft³/s Sept. 2, 1957.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1896, 29.0 ft in December 1919, from floodmarks at site 2.6 mi downstream and stage relation between the two sites.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,400 ft³/s Apr. 8, maximum gage height, 15.82 ft Apr. 8, backwater from Peachtree Creek; minimum daily discharge, 1,040 ft³/s Sept. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2640	1110	3150	1720	2830	2920	7240	1170	3820	3560	1510	4000
2	1750	1160	2250	4470	6700	2750	6820	1780	3680	2250	3220	4280
3	1100	1380	1960	3530	5160	2780	1710	2810	3730	1240	1980	3620
4	1180	1540	1700	3630	5630	2800	2640	3120	2870	1700	3230	1540
5	1700	1290	4720	3650	3510	1970	6780	2330	1260	3660	3090	2080
6	1850	1200	3910	5160	1940	6480	6220	2800	1960	4660	2630	2350
7	2540	1150	2560	4940	2910	3400	7800	1960	2900	4750	1200	2950
8	2440	1150	1880	4050	5230	4030	11600	1120	2980	4520	1370	2870
9	1740	1170	1750	1410	5090	4130	6660	1120	2880	3800	3130	1770
10	1130	1260	1670	2260	5240	3630	3600	3040	2840	1090	3100	1290
11	1560	1330	3120	3180	3300	3760	3210	2980	2140	1170	3380	1070
12	2370	1450	4600	3210	3720	3140	6680	3340	1190	1710	3750	1290
13	6230	1630	3340	3130	1270	1310	6570	3130	1550	1660	3490	2090
14	3470	1320	6940	3220	2300	1480	6220	2540	2440	1760	1100	1620
15	2110	1160	6190	2510	3990	3080	3990	1140	2480	1620	1300	1900
16	1410	1120	2840	1290	6790	3560	5230	2360	2540	1130	3440	1900
17	1310	1420	5640	1680	4120	3370	1450	2520	2540	1090	3380	1490
18	1220	1780	4890	2260	3860	3320	2710	3210	1370	1240	3710	1040
19	1230	1620	1690	2320	4970	3350	7560	7170	1410	3150	4080	1160
20	1320	1450	2410	2310	1200	2210	7480	5250	2090	2960	3120	2450
21	1350	1160	3260	2320	1890	3090	7390	6060	3190	2140	1130	2360
22	1400	1160	3780	2290	3580	3750	5540	6230	3730	1790	1790	2100
23	1330	1270	3440	1400	4530	3560	2300	4540	2700	3090	4070	1600
24	1230	1350	3390	1890	3620	3850	1330	3190	2760	1260	3540	1300
25	1170	1330	2930	2850	3190	4150	2360	4520	1950	1420	3970	1170
26	1170	1320	1330	2660	2030	3460	4890	4410	1130	3100	3650	1420
27	1290	1280	1690	2770	1240	3830	4090	4460	1240	3270	2060	1870
28	1310	1260	2450	2680	2090	3610	4170	3660	2100	3090	1070	1760
29	1300	1430	1830	1950	---	4860	3940	1550	3000	3250	1130	1960
30	1230	2300	2100	1270	---	7040	3170	2100	3070	2340	3250	1830
31	1140	---	2060	1940	---	7320	---	3880	---	1250	3330	---
TOTAL	54270	40550	95470	83950	101930	111990	151350	99490	74040	74770	84300	60630
MEAN	1751	1352	3080	2708	3640	3613	5045	3209	2468	2412	2719	2021
MAX	6230	2300	6940	5160	6790	7320	11600	7170	3820	4750	4080	4280
MIN	1100	1110	1330	1270	1200	1310	1330	1120	1130	1090	1070	1040

CAL YR 1982 TOTAL 669060 MEAN 1833 MAX 17600 MIN 1060 MEAN+ 2629 CFSMT 1.81 IN+ 24.61
WTR YR 1983 TOTAL 1032740 MEAN 2829 MAX 11600 MIN 1040 MEAN+ 2712 CFSMT 1.87 IN+ 25.39

+ ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

APALACHICOLA RIVER BASIN

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02336300 PEACHTREE CREEK AT ATLANTA, GA.

LOCATION.--Lat 33°49'10", long 84°24'28", Fulton County, Hydrologic Unit 03130001, on downstream side of bridge on Northside Drive at Atlanta, 0.4 mi downstream from Tanyard Branch, and 4 mi upstream from mouth.

DRAINAGE AREA.--86.8 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 763.96 ft, National Geodetic Vertical Datum of 1929, city of Atlanta bench mark.

Prior to May 27, 1963, water-stage recorder at site 1,000 ft downstream at same datum.

REMARKS.--Records fair except those of no gage-height record, Oct. 16 to Nov. 3, Nov. 9 to Dec. 2, July 4-11, July 29 to Aug. 8, and Sept. 22-30, which are poor.

AVERAGE DISCHARGE.--25 years, 135 ft³/s, 21.12 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,660 ft³/s Mar. 16, 1976, gage height, 20.30 ft; minimum daily discharge, 6.0 ft³/s Oct. 3, 4, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Oct. 13	1345	3010	11.58	Mar. 6	0145	7040	17.87
Dec. 5	1230	3590	12.69	Apr. 8	1345	*7120	17.97
Jan. 2	0645	3010	11.58	Sept. 20	2115	2710	11.04
Feb. 2	0300	4240	13.87				

Minimum daily discharge, 13 ft³/s Aug. 22, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	24	450	109	323	146	84	60	47	457	94	233
2	26	27	100	1680	1650	73	365	59	45	55	60	426
3	24	32	43	279	187	68	90	74	41	46	30	208
4	24	68	48	136	123	65	68	74	64	41	25	841
5	23	30	1470	101	125	200	102	57	155	38	20	143
6	22	26	260	88	448	3190	187	55	170	48	20	223
7	694	35	115	81	146	313	72	54	200	38	50	91
8	361	25	85	77	93	209	3690	76	72	34	160	44
9	88	25	73	72	80	118	570	57	46	30	31	40
10	50	25	69	76	90	96	200	52	41	26	20	40
11	145	25	775	86	81	85	155	51	40	25	18	38
12	250	60	657	71	69	78	133	51	38	25	17	242
13	1550	80	132	65	62	73	120	53	37	24	16	413
14	183	40	95	64	162	74	115	53	37	24	14	184
15	75	30	173	63	73	69	125	49	38	23	14	64
16	60	27	255	61	65	68	93	435	35	23	14	52
17	45	35	79	61	80	116	85	81	35	72	14	51
18	40	200	65	62	61	89	162	62	35	119	15	51
19	35	100	101	59	58	76	88	465	332	30	14	77
20	32	50	64	60	57	614	75	125	173	23	14	821
21	30	40	56	87	56	388	72	64	49	22	14	719
22	29	35	53	264	743	90	71	54	306	21	13	140
23	28	32	52	130	283	72	94	55	86	21	14	100
24	28	30	52	74	141	516	109	50	53	21	16	70
25	27	29	50	64	123	326	69	47	38	23	21	50
26	27	28	49	59	81	448	65	46	35	20	16	40
27	26	27	49	91	77	860	63	44	76	18	15	35
28	26	50	348	76	86	164	62	44	42	18	14	32
29	25	350	118	59	---	109	61	94	80	18	13	29
30	25	250	64	67	---	90	61	107	151	17	14	27
31	24	---	58	58	---	243	---	48	---	50	111	---
TOTAL	4048	1825	6058	4380	5629	9126	7306	2696	2597	1450	921	5524
MEAN	131	60.8	195	141	201	294	244	87.0	86.6	46.8	29.7	184
MAX	1550	350	1470	1680	1650	3190	3690	465	332	457	160	841
MIN	22	24	43	58	56	65	61	44	35	17	13	27
CFSM	1.51	.70	2.25	1.62	2.32	3.39	2.81	1.00	1.00	.54	.34	2.12
IN.	1.73	.78	2.60	1.88	2.41	3.91	3.13	1.16	1.11	.62	.39	2.37

CAL YR 1982	TOTAL	53023	MEAN	145	MAX	4340	MIN	17	CFSM	1.67	IN	22.72
WTR YR 1983	TOTAL	51560	MEAN	141	MAX	3690	MIN	13	CFSM	1.62	IN	22.10

APALACHICOLA RIVER BASIN

02336300 PEACHTREE CREEK AT ATLANTA, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.19	---	---	3.61	4.37	3.87	3.64	3.74	3.35	5.03	---	4.21
2	3.19	---	---	8.54	8.27	3.47	4.85	3.73	3.32	3.40	---	4.92
3	3.17	3.31	3.43	4.51	4.10	3.43	3.68	3.84	3.28	3.33	---	4.22
4	3.16	3.61	3.44	3.84	3.78	3.41	3.52	3.85	3.48	---	---	6.30
5	3.15	3.29	7.79	3.65	3.77	3.84	3.63	3.71	3.91	---	---	3.84
6	3.13	3.23	4.43	3.58	5.19	11.04	4.14	3.70	3.96	---	---	4.28
7	5.79	3.23	3.75	3.53	3.89	4.81	3.55	3.69	4.23	---	---	3.60
8	4.81	3.23	3.55	3.50	3.60	4.48	11.65	3.86	3.53	---	---	3.28
9	3.69	---	3.43	3.47	3.52	4.03	5.66	3.71	3.33	---	3.16	3.23
10	3.41	---	3.45	3.49	3.59	3.90	4.47	3.67	3.28	---	3.01	3.22
11	3.97	---	6.07	3.56	3.52	3.83	4.25	3.66	3.26	3.06	2.97	3.21
12	4.07	---	5.70	3.45	3.44	3.78	4.14	3.66	3.24	3.05	2.95	3.89
13	8.12	---	3.83	3.41	3.43	3.75	4.06	3.68	3.23	3.04	2.94	5.14
14	4.17	---	3.63	3.40	3.96	3.76	4.07	3.69	3.23	3.04	2.90	4.15
15	3.66	---	3.93	3.39	3.46	3.72	4.13	3.64	3.24	3.04	2.90	3.51
16	---	---	4.36	3.38	3.41	3.72	3.94	5.05	3.21	3.03	2.89	3.41
17	---	---	3.52	3.38	3.52	3.92	3.90	3.61	3.21	3.35	2.90	3.40
18	---	---	3.42	3.38	3.38	3.77	4.32	3.48	3.22	3.77	2.90	3.40
19	---	---	3.65	3.36	3.35	3.68	3.93	5.10	4.57	3.12	2.90	3.55
20	---	---	3.41	3.37	3.34	5.29	3.85	3.89	4.07	3.05	2.88	6.18
21	---	---	3.34	3.54	3.33	4.86	3.83	3.52	3.36	3.02	2.90	5.93
22	---	---	3.32	4.47	5.70	3.68	3.82	3.44	4.52	3.01	2.87	---
23	---	---	3.31	3.80	4.50	3.55	3.96	3.44	3.63	3.01	2.89	---
24	---	---	3.31	3.47	3.87	5.35	4.06	3.40	3.39	3.01	2.89	---
25	---	---	3.29	3.40	3.78	4.80	3.81	3.37	3.24	3.03	2.97	---
26	---	---	3.28	3.36	3.53	4.96	3.78	3.36	3.21	2.98	2.89	---
27	---	---	3.23	3.58	3.50	6.36	3.77	3.35	3.45	2.96	2.87	---
28	---	---	4.62	3.49	3.54	4.08	3.76	3.33	3.28	2.97	2.86	---
29	---	---	3.75	3.36	---	3.79	3.75	3.62	3.49	---	2.84	---
30	---	---	3.41	3.43	---	3.68	3.75	3.73	3.93	---	2.86	---
31	---	---	3.36	3.35	---	4.42	---	3.35	---	---	3.37	---
MEAN	---	---	---	3.71	3.95	4.36	4.26	3.71	3.52	---	---	---
MAX	---	---	---	8.54	8.27	11.04	11.65	5.10	4.57	---	---	---
MIN	---	---	---	3.35	3.33	3.41	3.52	3.33	3.21	---	---	---

APALACHICOLA RIVER BASIN

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02336300 PEACHTREE CREEK AT ATLANTA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1969 to May 1972, July 1975 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHQS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHQS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
06...	0645	23	160	180	7.2	7.5	19.5	20.0	6.2	69
NOV										
03...	0930	27	175	195	7.3	7.4	17.0	27.0	5.5	59
DEC										
08...	0830	34	149	135	7.1	7.4	11.0	9.5	9.9	90
JAN										
05...	0830	100	149	132	7.3	7.4	6.0	-5	11.2	92
FEB										
02...	0900	2340	45	44	6.3	6.6	12.5	13.0	9.4	91
MAR										
02...	0815	73	138	128	7.2	7.1	9.0	8.0	9.6	36
APR										
06...	1015	125	91	90	7.1	6.9	14.5	20.0	3.4	84
MAY										
02...	0630	58	160	155	7.1	7.3	18.0	17.0	7.5	31
JUN										
08...	0900	66	108	107	7.2	7.1	19.5	20.0	7.4	83
JUL										
06...	0620	59	125	127	6.7	7.4	23.0	20.5	6.4	77
AUG										
01...	0615	146	72	77	7.0	6.7	24.5	24.0	5.6	69
SEP										
06...	0700	219	65	62	7.2	7.2	23.5	23.0	6.5	78

DATE	TUR- BIO- IDITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CaCO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT								
06...	3	1.0	4600	53	.50	1.44	.040	2.0
NOV								
03...	7	2.4	--	51	.41	4.06	.080	--
DEC								
08...	15	1.0	33000	40	.75	.260	.070	2.8
JAN								
05...	16	1.9	4300	36	.86	.180	.040	2.7
FEB								
02...	250	4.5	5000	10	.40	.100	.430	12
MAR								
02...	11	1.1	9300	34	.64	.260	.070	2.4
APR								
06...	100	3.8	23000	22	.69	.140	.170	5.6
MAY								
02...	3	1.1	3300	45	.41	.230	.050	2.6
JUN								
08...	35	2.4	49000	30	.40	.110	.100	5.7
JUL								
06...	30	2.0	--	40	.54	.120	.100	3.3
AUG								
01...	180	6.2	79000	13	.44	.140	.300	9.2
SEP								
06...	140	3.1	49000	19	.27	.120	.190	5.3

02336490 CHATTAHOOCHEE RIVER AT STATE HIGHWAY 280, NEAR ATLANTA, GA.

LOCATION.--Lat 33°49'01", long 84°28'48", Fulton-Cobb County line, Hydrologic Unit 03130002, at bridge on State Highway 280, 0.6 mi upstream from Southern Railway bridge, 1.7 mi downstream from Peachtree Creek, and at mile 298.8.

DRAINAGE AREA.--1,600 mi², approximately.

PERIOD OF RECORD.--March 1981 to current year.

GAGE.--Water-stage recorder. Datum of gage is 736.35 ft, National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions and return flows above station regulated by Gwinnett, DeKalb, and Cobb Counties, and by the city of Atlanta. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,300 ft³/s Feb. 3, 1982, gage height, 28.91 ft; minimum daily discharge, 1,010 ft³/s July 17, 1983.

EXTREMES OUTSIDE PERIOD OF RECORD: Flood of April 13, 1979, reached a stage of 30.71 ft from floodmarks, discharge, 32,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,500 ft³/s Apr. 8, gage height, 24.66 ft; minimum daily discharge, 1,010 ft³/s July 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1	2630	1080	4180	1980	3390	3320	7930	1300	3800	4970	1770	4740			
2	1920	1160	2580	8040	10200	3010	7970	1730	3200	2520	3370	5260			
3	1070	1410	2140	4450	5860	3040	2000	3080	3400	1250	2010	4620			
4	1090	1630	1920	4100	6540	3120	2760	3630	3100	1530	3340	2960			
5	1600	1340	7950	4030	4290	2330	7200	2490	1200	3880	3200	2010			
6	1850	1240	4910	5540	2890	11500	7060	3080	1800	5070	3070	3360			
7	3770	1170	2840	5520	3090	4260	3540	2410	3000	5170	1220	3410			
8	3300	1150	1950	4860	5620	4740	17800	1220	3250	4880	1780	3090			
9	2280	1200	1830	1610	5770	4620	11200	1710	3060	4290	3280	1930			
10	1190	1250	1710	2190	5760	4050	4670	3240	3010	1100	3200	1550			
11	1680	1350	4410	3510	3870	4180	3590	3180	2420	1110	3530	1090			
12	2750	1610	6590	3480	4300	3620	7190	3610	1190	1540	3940	1270			
13	9340	2000	3730	3380	1450	1390	7280	3380	1470	1640	3990	3370			
14	4490	1380	7260	3500	2420	1580	7090	2880	2420	1750	1080	2050			
15	2350	1230	7280	2950	4410	3250	4420	1230	2550	1600	1190	2100			
16	1610	1140	3730	1440	6910	3200	6180	3010	2570	1220	3500	1960			
17	1400	1540	6010	1550	4950	3760	1700	2550	2620	1010	3510	1700			
18	1290	2440	5900	2410	4050	3570	2880	3410	2030	1280	3840	1030			
19	1270	1880	1950	2470	5690	3860	8170	7800	2010	3180	4350	1140			
20	1350	1610	2370	2480	1340	2930	3300	5600	2340	3080	3290	3670			
21	1420	1230	3570	2520	1830	4220	8240	5800	3300	2110	1310	3930			
22	1460	1270	4130	3090	5130	4180	6390	6100	4570	1750	1720	2420			
23	1420	1340	3750	1710	5610	3920	2890	4900	2980	3280	4150	1670			
24	1290	1400	3700	1860	4100	4950	1570	5200	2990	1220	3740	1420			
25	1170	1380	3300	3110	3670	5280	2550	4600	2190	1310	4190	1180			
26	1190	1400	1500	2870	2520	4310	5630	4600	1130	3050	3930	1340			
27	1300	1330	1650	3060	1350	6260	4670	4500	1190	3330	2210	1860			
28	1320	1550	3110	2980	2200	4160	4740	4100	1920	3130	1020	1820			
29	1300	3800	2220	2340	---	5350	4430	1450	3300	3450	1080	2030			
30	1260	3220	2200	1380	---	7670	3820	1900	3310	2570	3140	1840			
31	1190	---	2220	1890	---	8220	---	4000	---	1400	3410	---			
TOTAL	62540	46730	112590	96300	119210	134510	178860	108190	77320	78670	88360	71820			
MEAN	2017	1558	3632	3106	4258	4339	5962	3490	2577	2538	2850	2394			
MAX	9340	3800	7950	8040	10200	11500	17800	7800	4570	5170	4350	5260			
MIN	1070	1080	1500	1380	1340	1390	1570	1220	1130	1010	1020	1030			
CAL YR 1982 TOTAL	783790			MEAN	2147	MAX	23100	MIN	1060	MEAN†	2943	CFSM†	1.84	IN†	24.97
WTR YR 1983 TOTAL	1175100			MEAN	3219	MAX	17800	MIN	1010	MEAN†	3102	CFSM†	1.94	IN†	26.32

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

02336502 CHATTAHOOCHEE RIVER AT I-285, AT ATLANTA, GA.

LOCATION.--Lat 33°48'32", long 84°29'43", Cobb-Fulton County line, Hydrologic Unit 03130002, at bridge on Interstate Highway 285, 0.3 mi upstream from Proctor Creek, 0.5 mi downstream from Southern Railway bridge, at Atlanta city limits, and at mile 297.7.

DRAINAGE AREA.--1,600 mi².

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

REMARKS.--Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions above station by Gwinnett, DeKalb, and Cobb Counties; return flows above station by Gwinnett and Cobb Counties. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Discharge obtained from gaging station 02336490, Chattahoochee River at State Highway 280, near Atlanta, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
06...	0815	1610	73	72	7.2	7.2	18.5	23.0	8.5	92
NOV										
03...	1445	1220	103	103	7.2	7.1	21.0	25.0	7.9	91
DEC										
08...	1015	1650	90	85	--	7.2	15.0	13.0	9.7	96
JAN										
05...	0945	4050	64	60	7.1	7.0	10.0	-5	10.7	97
FEB										
02...	1100	12800	49	48	6.6	6.8	11.2	15.0	9.6	90
MAR										
02...	0930	2510	73	73	7.1	7.1	10.0	15.5	10.4	95
APR										
06...	1230	7250	48	47	7.1	7.0	11.5	25.0	11.8	110
MAY										
02...	0800	1220	85	83	7.2	7.1	19.0	21.0	8.5	93
JUN										
08...	1040	3320	63	69	7.1	7.0	16.5	21.0	9.3	99
JUL										
06...	0730	6270	46	46	6.7	7.1	17.0	22.0	8.3	88
AUG										
03...	0645	1610	72	72	7.1	7.1	19.5	24.0	8.2	92
SEP										
06...	0900	4110	--	55	7.2	7.3	21.5	23.5	8.0	93

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUB- PENDE (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TCTAL (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TCTAL (MG/L AS P)	CARBON, ORGANIC TCTAL (MG/L AS C)
OCT										
06...	7	2.5	40	17	16	72	.66	.300	.250	1.0
NOV										
03...	11	7.6	--	26	<1	84	.58	2.60	.430	--
DEC										
08...	33	.8	430	21	24	76	.56	.980	.340	4.7
JAN										
05...	19	1.7	750	12	26	44	.36	.540	.160	2.5
FEB										
02...	150	3.2	7500	11	336	384	.28	.200	.330	7.8
MAR										
02...	10	1.2	9300	18	15	52	.30	.770	.230	1.8
APR										
06...	22	1.4	750	13	48	96	.29	.240	.070	1.1
MAY										
02...	7	3.4	170	22	10	76	.43	1.09	.440	3.6
JUN										
03...	19	2.2	3300	16	29	84	.42	.540	.190	5.9
JUL										
06...	76	2.4	--	13	244	268	.36	.300	.190	2.4
AUG										
03...	11	1.1	230	18	18	52	.55	.950	.330	2.1
SEP										
06...	64	2.2	11000	15	140	200	.40	.300	.210	4.9

APALACHICOLA RIVER BASIN

02337000 SWEETWATER CREEK NEAR AUSTELL, GA.

LOCATION.--Lat 33°46'22", long 84°36'53", Douglas County, Hydrologic Unit 03130002, on right bank 100 ft upstream from bridge on Interstate Highway 20, 400 ft upstream from Blair Bridge, 3 mi southeast of Austell, and 5.5 mi upstream from mouth.

DRAINAGE AREA.--246 mi².

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). WDR GA-79-1: 1975(M).

GAGE.--Water-stage recorder. Datum of gage is 857.01 ft, National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). May 6, 1904, to Dec. 31, 1905, and Nov. 3 to Dec. 27, 1913, nonrecording gage at site 2.5 mi upstream at different datum. Mar. 24 to Nov. 29, 1937, nonrecording gage at present site and datum.

REMARKS.--Records good except those for periods of no gage-height record, Nov. 26-29, Mar. 21-28, May 29 to June 1, June 5-8, 19-22, July 5-7, and Aug. 6-21, which are fair.

AVERAGE DISCHARGE.--47 years (1904-5, 1937-83), 336 ft³/s, 18.55 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,700 ft³/s Feb 4, 1982, gage height, 19.90 ft; minimum daily, 2.1 ft³/s Oct. 9, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 8, 1916 reached a stage of about 20.0 ft, from information by local resident; discharge, 12,600 ft³/s, from rating extended above 6,500 ft³/s on basis of contracted-opening measurement at gage height, 18.2 ft.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 6	0900	2280	7.32	Mar. 6	2200	2580	8.03
Dec. 12	1800	2110	6.91	Apr. 9	1700	*3530	10.16
Jan. 3	0100	2060	6.79	May 21	0600	2900	8.77
Feb. 3	0600	2870	8.70				

Minimum discharge, 24 ft³/s Aug. 30, gage height, 0.49 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	108	923	354	367	488	616	272	220	269	70	37
2	58	112	973	1480	2070	477	849	263	206	165	100	115
3	58	122	865	1890	2770	404	780	265	195	149	105	139
4	56	161	582	1490	2140	352	629	294	201	233	96	174
5	56	189	1290	770	826	378	523	276	205	320	81	173
6	55	173	2220	548	844	2210	706	252	350	250	74	158
7	126	146	2020	473	875	1950	626	236	650	195	68	127
8	205	137	948	414	710	1030	1710	228	580	159	64	108
9	154	130	501	375	564	588	3320	222	425	138	62	167
10	137	125	401	346	522	479	3260	214	283	125	60	122
11	117	121	749	371	530	415	2140	210	230	115	57	93
12	122	138	1950	346	491	375	900	208	203	109	55	95
13	869	230	1730	307	433	356	651	213	187	101	52	291
14	1420	200	1070	287	435	338	563	244	174	96	50	264
15	712	173	616	280	406	323	542	229	165	94	49	192
16	320	149	792	267	361	317	497	566	156	87	47	145
17	211	151	699	258	361	326	448	597	152	85	45	116
18	177	434	557	253	348	340	469	402	187	87	42	103
19	157	569	495	246	323	327	501	1010	175	92	38	91
20	147	503	455	243	305	428	451	2420	165	93	36	138
21	142	311	384	270	290	1100	396	2790	200	91	34	344
22	136	254	340	418	524	700	362	1740	250	84	32	212
23	131	232	314	511	1210	500	381	664	277	75	30	154
24	126	214	296	461	727	600	493	473	223	70	29	118
25	122	191	294	386	587	750	464	361	196	71	27	98
26	122	180	285	332	472	700	384	307	175	70	27	88
27	116	175	276	332	398	1200	340	288	160	66	28	85
28	109	300	443	365	366	1400	315	277	169	61	28	83
29	106	500	699	336	---	1090	296	250	156	57	25	79
30	108	642	555	323	---	650	282	240	183	54	25	79
31	106	---	409	313	---	663	---	230	---	56	25	---
TOTAL	6599	7070	24136	15045	20255	21254	23894	16241	7128	3717	1561	4188
MEAN	213	236	779	485	723	686	796	524	238	120	50.4	140
MAX	1420	642	2220	1890	2770	2210	3320	2790	650	320	105	344
MIN	55	108	276	243	290	317	282	208	152	54	25	37
CF5M	.87	.96	3.17	1.97	2.94	2.79	3.24	2.13	.97	.49	.21	.57
IN.	1.00	1.07	3.65	2.28	3.06	3.21	3.61	2.46	1.08	.56	.24	.63
CAL YR 1982 TOTAL	164853	MEAN 452	MAX 10100	MIN 55	CF5M 1.84	IN 24.93						
WTR YR 1983 TOTAL	151088	MEAN 414	MAX 3320	MIN 25	CF5M 1.68	IN 22.95						

APALACHICOLA RIVER BASIN

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02337000 SWEETWATER CREEK NEAR AUSTELL, GA.--Continued

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
05...	0900	53	91	87	7.1	7.3	19.5	25.0	6.8	75
NOV										
03...	1330	121	74	74	7.1	7.0	16.5	24.0	7.6	80
DEC										
08...	1100	896	58	55	--	6.8	11.5	13.5	--	--
JAN										
05...	1030	749	56	52	6.9	7.0	7.0	5.0	10.7	90
FEB										
02...	1145	2110	48	47	6.7	6.6	10.6	14.5	9.2	86
MAR										
02...	1030	434	85	87	7.0	6.9	9.0	18.0	10.2	91
APR										
05...	1400	709	61	58	6.9	6.8	13.5	25.0	9.5	93
MAY										
02...	0900	264	64	66	7.2	7.1	19.0	24.0	8.0	88
JUN										
03...	1130	531	69	67	7.0	6.9	19.5	25.0	6.5	73
JUL										
06...	0845	279	71	72	6.9	7.2	23.5	23.5	6.4	78
AUG										
01...	0845	51	85	90	7.2	7.0	24.0	28.0	5.6	68
SEP										
06...	0930	196	100	99	6.8	7.0	24.0	26.5	6.0	74

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY LAB (MG/L AS CaCO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT								
05...	11	.5	7900	29	.27	.080	.020	2.0
NOV								
03...	12	1.1	--	26	.19	.060	.030	--
DEC								
08...	32	1.3	930	14	.19	.070	.070	6.0
JAN								
05...	28	1.5	2300	12	.30	.060	.040	3.9
FEB								
02...	110	2.5	8400	11	.22	.090	.150	6.4
MAR								
02...	15	4.8	230	18	.30	.070	.040	10
APR								
06...	44	1.8	4300	16	.27	.100	.090	3.4
MAY								
02...	12	.7	150	21	.26	.040	.040	3.2
JUN								
03...	40	3.5	110000	22	.26	.400	.160	6.8
JUL								
06...	32	1.7	--	22	.28	.180	.080	2.8
AUG								
01...	10	.7	230	30	.34	.020	.040	3.7
SEP								
06...	12	1.9	790	14	.26	.060	.200	4.9

APALACHICOLA RIVER BASIN

02337000 SWEETWATER CREEK NEAR AUSTELL, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
DEC 15...	1125	589	7.0	21	33
JAN 25...	1010	397	4.0	7	7.5
MAR 09...	1310	575	14.5	36	56
JUN 01...	0815	220	20.0	22	13

APALACHICOLA RIVER BASIN

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02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.

LOCATION.--Lat 33°39'24", long 84°40'25", Fulton-Douglas County line, Hydrologic Unit 03130002, at downstream end of pier of bridge on State Highways 74 and 92, 1.4 mi downstream from Deep Creek, 8.5 mi northwest of Fairburn, and at mile 281.8.

DRAINAGE AREA.--2,060 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 719.07 ft, National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation).

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions and return flows above station regulated by Gwinnett, DeKalb, and Cobb Counties, and by the city of Atlanta. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant.

AVERAGE DISCHARGE.--18 years, 3,764 ft³/s, 24.81 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,500 ft³/s Apr. 14, 1979, gage height, 25.18 ft; minimum daily, 1,000 ft³/s July 1, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,300 ft³/s Apr. 9, gage height, 19.88 ft; minimum daily, 1,200 ft³/s July 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2770	1300	6290	2730	3870	4100	3820	2360	4400	5660	2080	4530
2	2530	1380	4400	9600	12500	3960	9540	1950	3950	3500	2970	5170
3	1450	1670	3320	8730	9890	3690	4710	3290	4120	1750	2580	5590
4	1220	1830	2130	6700	9210	3780	3200	4390	4020	1700	3110	3850
5	1530	1840	8290	5780	7050	3530	7360	3120	2110	3780	3490	2250
6	1960	1580	10200	6520	4610	13400	7990	3420	2090	5400	3680	3550
7	3590	1470	5750	6610	4390	8760	9180	3480	4590	5390	2030	3770
8	4100	1400	3880	6300	6590	6690	14200	2090	4240	5070	2080	3180
9	3600	1480	2420	2920	6750	5720	20900	1850	3730	4900	2860	2570
10	1690	1440	2420	2430	6590	5010	11200	3360	3530	1900	3360	2060
11	1660	1650	4290	4270	5340	5000	6830	3770	3300	1390	3470	1380
12	2200	1670	10700	4360	5270	4660	8270	3870	1930	1500	3930	1310
13	9740	2580	6530	4260	2840	2360	8440	3800	1650	1980	4540	3680
14	9550	1900	7980	4290	2630	2150	8120	3850	2470	1910	1700	2900
15	3760	1600	8280	4170	5050	3420	5680	2250	2810	1890	1330	2400
16	2630	1440	5840	2410	6420	4130	7280	3320	2850	1760	2860	2380
17	1910	1700	6600	2020	6720	4420	3250	3930	2930	1200	3700	2060
18	1670	3130	7160	2900	4800	4050	2820	3930	2800	1520	3830	1330
19	1610	2960	3130	3080	6610	4620	8060	7390	2190	2700	4320	1290
20	1600	2420	2600	3140	2510	3030	8910	10300	3210	3420	3710	3050
21	1750	1800	4000	3220	1950	7100	8840	9380	3850	2350	2170	5550
22	1790	1730	4630	4180	4960	5620	8110	8920	4630	2020	1500	2990
23	1720	1760	4250	3210	8780	5180	4440	6040	3940	3410	3750	2260
24	1600	1780	4160	2380	5540	5660	2800	5720	3380	1820	4210	1930
25	1440	1770	4200	3880	4900	7540	2780	5250	2970	1350	4090	1470
26	1470	1750	2520	3670	3960	6230	6030	5030	1770	2550	3770	1410
27	1560	1650	1910	3670	2360	10300	5430	5050	1460	3400	3050	1800
28	1570	1670	3190	3910	2280	6730	5370	4840	1950	3190	1340	2050
29	1580	5210	4230	3620	---	6720	5010	2390	3440	3290	1270	2020
30	1540	3930	2830	2310	---	8360	4980	2750	3600	3190	2570	2040
31	1430	---	2910	2130	---	9070	---	3880	---	1530	3500	---
TOTAL	78270	59510	152140	129400	154380	174990	218550	134570	93810	86620	92850	81820
MEAN	2525	1984	4908	4174	5514	5645	7285	4341	3127	2794	2995	2727
MAX	9740	5210	10700	9600	12500	13400	20900	10300	4630	5660	4540	5590
MIN	1220	1300	1810	2020	1950	2150	2780	1350	1460	1200	1270	1290

CAL YR 1982 TOTAL 1061490 MEAN 2908 MAX 30300 MIN 1220 MEAN+ 3704 CFSM+ 1.80 IN+ 24.41
WTR YR 1983 TOTAL 1456910 MEAN 3992 MAX 20900 MIN 1200 MEAN+ 3875 CFSM+ 1.88 IN+ 25.53

+ ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

APALACHICOLA RIVER BASIN

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1976 to current year.

pH: July 1976 to current year.

WATER TEMPERATURES: October 1975 to current year.

DISSOLVED OXYGEN: July 1976 to current year.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 192 micromhos Feb. 20, 1979; minimum, 33 micromhos July 7, 1976.

pH: Maximum recorded, 7.5 units Nov. 20-23, 1980; minimum, 5.5 units Aug. 12, Sept. 13, 1978.

WATER TEMPERATURE: Maximum, 32.0°C June 24, 1981; minimum, 2.5°C Jan. 12, 1982.

DISSOLVED OXYGEN: Maximum, 13.1 mg/L Mar. 24, 1977; minimum, 1.6 mg/L July 26, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 154 micromhos Nov. 13; minimum recorded, 46 micromhos Apr. 19, 20, May 22, Aug. 25.

pH: Maximum, 7.3 units Jan. 17-19; minimum recorded, 6.2 units Feb. 2.

WATER TEMPERATURE: Maximum, 29.0°C July 23, 25, Aug. 22; minimum, 6.0°C Jan. 21, 22.

DISSOLVED OXYGEN: Maximum, 11.2 mg/L Jan. 22, Feb. 8; minimum, 3.0 mg/L Aug. 29.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN, DIS- SOLVED (MG/L)
OCT										
20...	1130	1660	125	119	6.7	7.1	18.0	26.0	7.0	75
NOV										
09...	1030	1610	126	123	6.8	7.2	14.5	12.0	7.2	72
DEC										
16...	1200	6170	69	71	6.6	6.9	11.5	12.0	9.3	87
JAN										
18...	1130	3050	77	77	6.9	6.9	7.5	2.0	10.6	90
FEB										
28...	1045	2030	106	106	6.8	7.3	9.5	7.5	9.9	90
MAR										
30...	1035	8910	57	55	6.7	6.9	10.5	9.0	10.1	93
APR										
13...	1130	9570	54	50	6.7	6.9	12.5	24.0	9.8	94
26...	1050	6760	64	66	6.7	6.9	13.5	19.0	8.5	84
MAY										
24...	0900	4720	68	69	6.7	6.8	18.0	20.0	7.7	84
JUN										
22...	0900	3660	69	68	6.8	7.1	18.0	22.0	7.9	86
JUL										
21...	0940	2180	77	76	6.6	6.9	20.5	27.0	7.2	82
AUG										
17...	0900	3210	65	67	6.6	7.3	18.0	24.0	7.9	85
SEP										
29...	0915	1450	77	75	--	7.4	19.0	17.0	7.8	86

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TUR- BIO- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINEITY LAB (MG/L AS CAC03)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NO2+N03 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 20...	15	14	3.1	340	24	13	92	1.3	1.18	1.60	.510	--
NOV 09...	15	13	3.6	2300	24	17	84	1.5	1.60	2.20	.900	--
DEC 16...	60	13	2.0	15000	18	90	140	.66	.330	.80	.270	3.2
JAN 18...	15	5	1.6	930	17	10	68	.80	.900	1.50	.310	3.5
FEB 28...	15	11	1.3	410	23	5	72	.97	1.54	1.60	.410	2.7
MAR 30...	35	10	1.7	--	13	104	156	.39	.290	.50	.210	2.4
APR 13...	30	11	1.8	790	13	82	124	.36	.180	.50	.260	3.2
MAY 26...	35	12	3.4	7900	16	8	152	.50	.350	1.20	.340	4.4
JUN 24...	25	12	--	1300	16	39	80	.52	.560	.60	.180	2.9
JUL 22...	20	9	2.6	2300	16	47	112	.36	.390	.80	.240	2.7
AUG 21...	15	7	2.7	490	15	29	76	.75	.680	.90	.320	2.6
SEP 17...	10	9	1.6	330	16	33	84	.73	.410	.40	.240	6.8
SEP 29...	15	14	2.1	330	15	43	92	.84	.420	.80	.370	3.7

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		
1	34	62	123	103	69	49	93	72	113	70	101	79
2	31	61	135	111	---	---	90	47	86	51	86	70
3	118	79	150	113	---	---	67	53	59	54	93	71
4	120	112	138	108	---	---	65	60	60	49	95	68
5	128	102	117	100	---	---	68	64	62	52	94	70
6	131	81	129	105	---	---	68	49	90	64	73	47
7	122	79	122	105	75	66	76	54	71	68	66	53
8	102	65	110	104	87	70	71	54	71	51	73	59
9	97	66	128	111	100	83	93	67	64	53	68	55
10	115	84	131	111	110	86	97	90	64	52	70	61
11	116	104	134	110	123	62	97	71	80	60	70	51
12	117	85	140	111	62	53	76	70	82	51	72	54
13	108	53	154	93	69	58	89	68	87	60	93	66
14	---	---	100	94	68	47	80	66	100	83	99	84
15	---	---	107	93	59	50	74	67	92	56	109	65
16	---	---	126	100	81	61	91	72	72	48	81	56
17	---	---	130	103	85	50	95	88	68	49	73	65
18	---	---	129	96	66	47	107	77	74	64	75	65
19	---	---	93	79	86	62	84	72	72	48	67	57
20	123	115	107	86	91	77	88	72	101	66	87	63
21	128	109	114	90	88	67	83	66	105	98	85	59
22	133	102	105	95	66	61	123	75	115	66	71	61
23	132	101	112	106	70	65	103	81	77	54	68	63
24	122	98	124	100	70	62	96	82	69	63	72	66
25	114	100	118	97	66	59	104	71	76	68	68	59
26	123	106	113	82	82	64	95	71	87	69	74	61
27	132	110	106	82	102	83	92	65	94	76	73	56
28	133	109	93	86	116	80	96	68	108	86	71	63
29	130	108	---	---	111	69	95	67	---	---	74	56
30	134	109	73	56	102	82	105	82	---	---	71	49
31	131	103	---	---	94	77	107	99	---	---	63	52
MONTH	134	53	154	56	123	47	123	47	115	48	109	47
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		
1	62	47	106	90	80	63	87	59	---	---	75	53
2	59	53	114	98	84	65	76	64	---	---	72	53
3	78	58	118	86	85	65	111	77	---	---	58	48
4	91	76	92	68	81	68	108	97	---	---	85	58
5	78	50	101	70	107	75	107	65	83	67	85	68
6	71	55	92	67	117	102	69	51	85	66	94	63
7	61	48	94	67	113	79	63	49	110	73	87	62
8	59	47	109	70	85	75	62	48	112	93	81	61
9	---	---	106	102	85	73	61	46	128	74	97	64
10	---	---	109	68	86	69	108	61	80	70	118	77
11	---	---	80	65	86	72	112	102	85	68	120	105
12	---	---	73	62	108	80	129	110	80	62	113	109
13	66	51	81	64	117	103	134	82	75	51	119	86
14	74	51	83	63	121	89	123	87	114	64	101	79
15	78	67	93	68	97	73	122	87	119	110	104	86
16	78	52	105	80	96	74	130	84	131	67	113	82
17	89	61	94	72	93	73	141	116	79	61	119	84
18	110	91	96	69	88	74	135	115	76	57	128	96
19	102	46	68	48	111	81	137	70	65	50	120	110
20	57	46	59	53	104	82	74	64	63	52	146	78
21	57	49	61	47	103	76	107	75	93	51	78	60
22	65	55	62	46	78	66	123	80	122	95	101	71
23	72	55	69	53	80	63	136	59	95	49	107	77
24	76	70	69	50	79	65	104	68	64	49	119	80
25	90	80	73	54	85	65	135	103	81	46	121	109
26	82	47	75	55	111	80	140	69	83	54	113	106
27	70	59	71	53	115	101	80	63	74	58	118	91
28	94	64	67	53	128	100	85	66	117	77	122	72
29	95	65	100	63	107	69	83	66	121	109	124	74
30	106	80	108	93	79	65	87	66	134	59	117	69
31	---	---	100	67	---	---	103	74	76	54	---	---
MONTH	110	46	118	46	128	63	141	46	134	46	146	48
YEAR	154	46										

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	OCTOBER				NOVEMBER				DECEMBER				JANUARY				FEBRUARY				MARCH			
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN		
1	8.2	5.8	7.8	6.6	---	---	---	---	---	---	9.7	9.0	9.6	8.7	10.5	9.1	9.6	8.9	10.1	8.9	10.1	9.3		
2	7.9	6.2	6.8	5.9	---	---	---	---	---	---	10.3	9.1	9.6	8.9	10.1	9.3	9.6	8.9	10.1	9.3	10.1	9.3		
3	7.0	5.2	6.5	5.7	---	---	---	---	---	---	10.3	10.1	10.4	9.6	10.4	9.7	10.4	9.6	10.4	9.6	9.7	8.9		
4	5.1	4.4	6.8	5.4	---	---	---	---	---	---	10.5	10.1	11.1	10.2	11.1	10.1	11.1	10.2	11.1	10.8	9.7	8.7		
5	4.9	4.2	7.9	6.3	---	---	---	---	---	---	10.5	10.2	10.5	10.8	10.5	10.2	11.0	10.8	10.5	10.8	9.3	8.7		
6	6.9	4.7	7.9	7.1	---	---	---	---	---	---	10.6	10.2	10.6	10.2	10.6	10.2	10.7	10.2	10.6	10.2	8.3	7.7		
7	7.2	4.5	8.0	7.5	9.0	8.6	9.0	8.5	9.0	8.5	10.6	10.0	10.6	10.0	10.6	10.0	10.8	10.6	10.8	8.5	7.9			
8	6.8	5.3	8.1	7.5	9.1	8.5	9.1	8.5	9.1	8.5	10.6	10.1	11.2	10.5	11.2	10.5	11.2	10.8	11.2	8.6	7.9			
9	7.3	5.8	7.6	6.9	7.6	6.9	8.7	7.3	8.2	7.9	10.2	9.4	10.2	9.4	11.0	9.4	11.0	10.7	11.0	9.3	8.5			
10	6.9	5.3	7.2	6.8	7.2	6.8	7.2	6.8	7.2	6.8	9.5	9.2	10.2	9.2	10.8	9.2	10.8	10.6	10.8	9.8	9.2			
11	5.7	5.0	7.5	6.6	10.2	9.5	10.2	9.5	10.2	9.5	11.0	10.5	11.0	10.5	11.0	10.5	9.4	8.9	9.4	8.5	7.9			
12	6.4	5.3	7.1	6.2	10.1	9.8	10.1	9.8	10.1	9.8	11.2	10.9	11.2	10.9	11.2	10.9	9.6	8.2	10.3	9.6	10.3			
13	---	---	7.3	5.7	10.5	10.2	9.9	9.7	10.5	10.2	10.3	9.9	10.3	9.9	10.3	9.9	10.1	9.1	10.1	9.1	10.4	10.2		
14	---	---	8.4	7.9	10.7	10.0	9.8	9.5	10.7	10.0	10.4	10.2	9.8	9.7	10.4	10.2	9.8	9.7	10.4	10.2	10.9	10.0		
15	---	---	9.5	9.0	10.0	9.6	9.6	9.3	10.0	9.6	10.8	9.9	10.8	9.9	10.1	9.7	10.1	9.7	10.1	9.7	11.0	10.6		
16	---	---	8.5	7.3	9.5	9.1	9.1	8.5	9.5	9.1	10.5	9.8	10.5	9.8	10.5	9.8	9.4	8.9	9.4	8.5	7.9			
17	---	---	9.1	7.5	10.1	9.0	9.7	8.5	10.1	9.0	10.1	9.7	10.1	9.7	10.1	9.7	10.8	10.2	10.1	9.3	8.9			
18	---	---	9.4	7.5	10.2	9.7	9.7	9.3	10.2	9.7	10.7	9.9	10.3	9.9	10.3	9.9	9.4	9.1	9.4	9.1	9.1			
19	---	---	8.5	8.2	10.0	9.3	9.3	8.5	10.0	9.3	10.6	10.4	10.3	10.4	10.3	10.9	9.7	10.3	9.7	9.3	8.4			
20	7.1	6.5	8.5	7.9	9.8	9.3	9.3	8.5	9.8	9.3	10.8	10.3	10.3	10.4	10.3	9.2	9.6	9.2	9.6	8.4				
21	7.0	6.4	8.5	7.0	10.2	9.5	9.5	8.5	10.2	9.5	11.0	10.5	10.5	10.5	9.6	3.9	9.6	3.9	9.6	8.5				
22	7.2	6.4	7.8	7.0	10.1	9.8	9.8	8.5	10.1	9.8	11.2	10.9	10.9	10.9	10.3	8.2	10.3	8.2	10.3	9.6	10.3			
23	7.2	6.4	7.0	6.6	9.9	9.7	9.7	8.5	9.9	9.7	11.1	10.5	10.5	10.5	10.4	9.1	10.1	9.1	10.1	9.6	10.2			
24	7.6	6.9	6.9	6.2	9.9	9.5	9.5	8.5	9.8	9.5	10.4	10.2	10.2	9.8	9.7	9.7	10.9	9.7	10.9	10.0	10.6			
25	7.5	7.1	7.4	6.5	9.6	9.3	9.3	8.5	9.6	9.3	10.8	9.9	10.8	9.9	10.1	9.7	10.1	9.7	10.1	11.0	10.6			
26	7.3	6.9	7.6	6.9	9.3	8.5	8.5	7.3	9.3	8.5	10.4	9.1	10.4	9.1	10.4	10.1	10.4	10.1	10.4	10.5	10.2			
27	7.8	6.8	7.6	7.2	8.5	7.8	7.8	6.9	8.5	7.8	10.3	9.7	10.3	9.7	10.3	10.1	10.3	10.1	10.3	9.8	9.8			
28	7.3	7.5	7.5	7.0	8.4	7.2	7.2	7.0	8.4	7.2	10.3	9.5	10.3	9.5	10.3	9.8	9.8	9.8	9.8	9.5	9.5			
29	8.0	7.3	---	---	8.6	7.0	7.0	---	8.6	7.0	10.2	9.5	10.2	9.5	---	---	---	---	---	10.4	9.6			
30	7.8	7.1	8.7	8.0	9.0	8.0	8.0	---	9.0	8.0	9.8	8.9	9.8	8.9	---	---	---	---	---	10.6	10.0			
31	7.7	7.2	---	---	9.5	8.9	8.9	---	9.5	8.9	9.0	8.8	9.0	8.8	---	---	---	---	---	10.5	10.2			
MONTH	8.2	4.2	9.7	5.4	10.7	7.0	11.2	8.3	11.2	8.3	11.2	8.3	11.2	8.7	11.2	8.7	11.2	8.7	11.2	11.0	7.7			
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN		
1	10.5	10.1	---	---	8.2	7.3	7.7	4.2	---	---	7.7	4.2	---	---	---	---	---	---	---	---	7.6	5.8		
2	10.1	9.6	---	---	8.4	7.4	7.1	6.5	---	---	7.1	6.5	---	---	---	---	---	---	---	---	7.7	6.0		
3	9.6	9.0	---	---	8.5	7.4	6.5	5.3	---	---	6.5	5.3	---	---	---	---	---	---	---	---	7.9	6.9		
4	9.1	8.7	8.3	7.5	8.2	7.1	5.5	5.0	---	---	5.5	5.0	---	---	---	---	---	---	---	---	7.6	5.2		
5	10.3	9.0	8.8	7.5	7.7	5.7	7.3	4.9	---	---	7.3	4.9	---	---	---	---	7.6	6.9	7.6	6.2	5.7			
6	9.9	9.5	8.6	7.6	5.9	5.1	8.4	7.1	---	---	8.4	7.1	---	---	---	---	7.8	6.4	7.8	6.6	5.3			
7	10.0	9.6	8.8	7.4	6.7	4.8	8.7	7.6	---	---	8.7	7.6	---	---	---	---	6.7	5.4	6.7	5.8	7.2			
8	9.7	9.5	9.2	6.3	7.4	6.8	8.8	7.8	---	---	8.8	7.8	---	---	---	---	5.7	4.1	5.7	4.1	7.3			
9	---	---	6.4	5.9	8.0	7.0	8.9	8.0	---	---	8.9	8.0	---	---	---	---	6.9	4.5	6.9	4.5	7.7			
10	---	---	7.7	5.8	7.8	6.7	8.6	6.1	---	---	8.6	6.1	---	---	---	---	7.3	6.3	7.3	6.6	5.2			
11	---	---	8.2	7.4	7.8	6.8	6.2	5.3	---	---	6.2	5.3	---	---	---	---	7.6	6.7	7.6	6.5	4.5			
12	---	---	8.2	7.7	7.4	5.8	5.2	3.5	---	---	5.2	3.5	---	---	---	---	7.9	7.3	7.9	7.3	5.1			
13	10.0	8.4	8.4	7.5	6.1	5.1	6.2	4.3	---	---	6.2	4.3	---	---	---	---	8.4	7.4	8.4	7.4	5.5			
14	9.6	8.6	8.3	7.2	8.0	4.9	6.3	4.8	---	---	6.3	4.8	---	---	---	---	8.1	5.8	8.1	5.8	5.8			
15	9.0	8.3	7.7	6.4	7.4	5.1	6.3	4.5	---	---	6.3	4.5	---	---	---	---	5.8	5.0	5.8	5.2	5.2			
16	---	---	6.4	4.4	7.4	6.0	6.3	4.8	---	---	6.3	4.8	---	---	---	---	7.8	4.8	7.8	4.8	6.5			
17	---	---	7.2	6.0	7.5	6.2	5.0	3.9	---	---	5.0	3.9	---	---	---	---	8.1	7.3	8.1	7.3	5.3			
18	---	---	7.9	7.1	7.6	6.3	4.6	4.0	---	---	4.6	4.0	---	---	---	---	8.4	7.7	8.4	7.7	6.6			
19	---	---	9.1	7.7	7.5	5.9	6.9	3.9	---	---	6.9	3.9	---	---	---	---	8.4	7.5	8.4	7.5	4.7			
20	9.8	9.2	8.4	7.7	5.9	5.2	7.7	7.0	---	---	7.7	7.0	---	---	---	---	9.2	7.3	9.2	7.3	5.8			
21	9.5	9.0	9.2	8.0	7.0	5.8	7.3	5.5	---	---	7.3	5.5	---	---	---	---	8.0	5.9	8.0	5.9	6.4			
22	---	---	9.2	8.1	7.9	6.6	6.9	4.9	---	---	6.9	4.9	---	---	---	---	5.8	4.4	5.8	4.4	7.2			
23	---	---	8.6	7.7	7.4	6.8	7.6	4.4	---	---	7.6	4.4	---	---	---	---	3.4	5.7	3.4	5.7	7.4			
24	---	---	8.8	7.7	8.0	6.9	7.6	3.2	---	---	7.6	3.2	---	---	---	---	8.3	7.5	8.3	7.5	7.7			
25	---	---	8.9	7.7	7.6	6.1	5.3	4.1	---	---	5.3	4.1	---	---	---	---	9.4	6.9	9.4	6.9	7.0			
26	9.8	8.8	8.8	7.7	6.4	5.0	6.1	3.3	---	---	6.1	3.3	---	---	---	---	9.0	6.8	9.0	6.8	7.1			
27	9.1	8.1	8.8	7.8	5.1	4.4	7.																	

APALACHICOLA RIVER BASIN

02337500 SNAKE CREEK NEAR WHITESBURG, GA.

LOCATION.--Lat 33°31'46", long 84°55'42", Carroll County, Hydrologic Unit 03130002, at downstream end of left bank pier of highway bridge, at Banning Mills, 1.5 mi north of State Highway 16, 3 mi northwest of Whitesburg, 4 mi downstream from Little Snake Creek, and 7 mi upstream from mouth.

DRAINAGE AREA.--37 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1954 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 850 ft, from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--29 years, 58.6 ft³/s, 21.51 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,690 ft³/s Feb. 25, 1961, gage height, 14.40 ft; minimum, 2.3 ft³/s

Oct. 7, 1954, gage height, 1.56 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 5	0700	1240	5.86	Mar. 6	0115	1210	5.77
Feb. 2	0315	1470	6.38	Apr. 8	1445	*3250	9.41

Minimum discharge, 15 ft³/s Aug. 31, gage height, 2.02 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	30	122	71	120	82	103	85	60	44	46	23
2	25	31	94	349	588	76	166	84	60	41	76	29
3	25	47	73	166	157	74	121	88	59	40	38	36
4	25	61	67	108	108	73	104	36	61	39	32	33
5	25	41	631	93	98	93	96	82	56	40	30	28
6	24	37	192	87	140	364	111	79	56	38	28	29
7	33	36	105	82	114	125	107	77	66	35	27	42
8	41	35	86	77	98	103	1100	79	63	34	26	28
9	40	34	77	74	92	91	432	75	56	33	27	34
10	31	33	71	72	91	85	234	75	55	33	25	26
11	31	33	237	72	87	81	151	77	53	32	24	29
12	36	37	233	67	32	79	131	31	52	31	24	64
13	268	42	117	66	80	78	121	76	50	31	23	90
14	39	36	94	66	82	76	121	73	49	31	22	47
15	55	35	93	64	79	75	118	73	48	31	21	31
16	44	35	116	63	77	77	108	109	47	29	21	27
17	38	44	87	63	82	77	103	81	49	40	21	25
18	36	139	78	62	75	77	111	74	59	42	20	24
19	35	86	75	61	74	73	104	129	60	36	19	24
20	34	64	70	63	72	151	99	112	59	32	19	28
21	34	56	67	72	71	170	95	89	54	30	18	29
22	32	54	66	83	102	103	97	80	50	29	18	25
23	32	50	64	81	96	90	118	73	53	28	18	22
24	31	46	63	77	88	127	114	69	49	27	17	21
25	30	44	62	72	91	136	99	66	46	26	17	20
26	31	42	61	69	81	176	95	65	45	24	17	20
27	30	42	61	73	78	460	92	64	45	24	18	20
28	30	52	107	70	78	156	89	63	44	23	18	19
29	30	77	93	68	---	121	88	69	48	22	17	19
30	30	90	75	69	---	109	86	71	46	21	16	19
31	30	---	70	66	---	119	---	61	---	24	16	---
TOTAL	1300	1539	3557	2626	3081	3777	4716	2465	1598	990	759	911
MEAN	41.9	51.3	115	84.7	110	122	157	79.5	53.3	31.9	24.5	30.4
MAX	268	189	631	349	588	460	1100	129	66	44	76	90
MIN	24	30	61	61	71	73	86	61	44	21	16	19
CFSM	1.13	1.39	3.11	2.29	2.97	3.30	4.24	2.15	1.44	.86	.66	.82
IN.	1.31	1.55	3.58	2.64	3.10	3.80	4.74	2.48	1.61	1.00	.76	.92
CAL YR 1982	TOTAL	26794	MEAN 73.4	MAX 2570	MIN 24	CFSM 1.98	IN 26.94					
WTR YR 1983	TOTAL	27319	MEAN 74.8	MAX 1100	MIN 16	CFSM 2.02	IN 27.47					

APALACHICOLA RIVER BASIN

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02337500 SNAKE CREEK NEAR WHITESBURG, GA.--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)				
APR 05...	0700	98	26	24	6.9	7.3	12.0	9.8	94				
JUL 18...	0730	42	34	38	6.7	6.0	21.0	8.1	94				
DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	
APR 05...	18	9.7	7	0	1.5	.8	2.1	36	.4	.8	8.0	2.0	
JUL 18...	55	53	9	4	2.1	1.0	2.4	32	.4	1.7	5.0	1.9	
DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITU- ENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	
APR 05...	2.9	2.1	<.10	8.6	29	24	7.7	.04	.10	.11	<.010	<.010	
JUL 18...	7.0	2.2	<.10	7.5	22	27	2.5	.03	.30	.29	.060	.040	
DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	
APR 05...	--	--	.20	.30	.30	.41	.010	<.010	1.7	10	1	1	
JUL 18...	.44	.16	.50	.20	.80	.49	.090	.040	2.8	30	1	1	
DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, DIS- SOLVED (UG/L AS ZN)		
APR 05...	1	10	1	120	3	5	23	<.1	<.1	<1	<3		
JUL 18...	1	10	2	200	12	5	72	<1.0	<.1	<1	5		

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.

LOCATION.--Lat 33°28'37", long 84°54'04", Carroll-Coweta County line, Hydrologic Unit 03130002, at downstream end of right bank pier of bridge on State Highway 16, 0.5 mi upstream from Central of Georgia Railroad bridge, 1.2 mi southeast of Whitesburg, 1.5 mi downstream from Cedar Creek, 2.0 mi downstream from Snake Creek, and at mile 259.8.

DRAINAGE AREA.--2,430 mi², 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, National Geodetic Vertical Datum of 1929. Prior to May 1, 1949, non-recording gage at site 1.0 mi upstream at datum 2.00 ft higher. May 1, 1949, to June 30, 1954, nonrecording gage at present site at datum 2.00 ft higher.

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions and return flows above station regulated by Gwinnett, DeKalb, and Cobb Counties, and by the city of Atlanta. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant.

AVERAGE DISCHARGE.--33 years, 4,049 ft³/s, 22.63 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,000 ft³/s Jan. 10, 1946, gage height, 25.1 ft, site and datum then in use, from graph based on gage readings, from rating extended above 30,000 ft³/s on basis of velocity-area and channel-capacity studies; minimum daily, 468 ft³/s Oct. 26, 1941.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29,400 ft³/s Apr. 9, gage height, 18.89 ft; minimum daily, 1,410 ft³/s Oct. 4 and Aug. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2950	1630	6980	3330	3490	4440	10200	4180	4570	5570	2520	4450
2	2660	1620	5570	9740	14800	4870	11000	2880	4340	4630	3620	4810
3	1960	1900	4110	12500	13700	4500	7940	3680	4220	2760	3700	5900
4	1410	2120	3650	7410	10400	4460	4230	5260	4400	2040	2890	4200
5	1560	2220	9920	6400	8660	4390	7350	4430	2700	3250	3840	2500
6	2020	1870	15500	6450	6070	15600	9220	4090	2510	5450	3850	3800
7	2660	1740	7210	6330	5630	14000	10100	4460	4610	5820	3290	4000
8	4630	1650	5200	6620	6820	7920	16800	3440	4900	5560	2310	3580
9	4200	1710	3460	4360	7610	6900	29100	2710	4430	5420	2590	3330
10	2350	1700	3050	2740	7300	6160	21200	3590	4070	3470	3760	2330
11	1800	1820	4230	3900	6900	5820	9170	4640	3900	1770	3710	1700
12	2320	1900	13300	4570	5540	5700	9270	4690	2940	1790	4100	1570
13	8910	2650	8470	4540	4720	4090	9890	4740	2100	2270	4640	3140
14	14400	2400	7730	4330	3190	3010	9470	4780	2520	2240	3040	3810
15	5130	1930	9060	4400	5080	3750	7570	3760	3200	2270	1540	2760
16	3430	1740	7670	3190	6250	4710	8030	3540	3310	2140	2140	2610
17	2360	1810	6250	2340	8240	5280	5660	5330	3330	1590	3900	2350
18	2110	3460	7750	2810	5650	4990	3620	4560	3450	1790	3880	1750
19	1970	3850	4740	3290	6920	5260	7810	7100	2740	2300	4260	1460
20	1910	2930	3230	3300	4470	4540	10100	12800	3830	3770	4320	2200
21	2000	2430	4020	3410	2670	8730	9940	9990	3930	3110	3090	6350
22	2020	2180	4700	4110	4280	6700	9620	9400	4520	2640	1520	3710
23	2020	2090	4790	4080	10500	6340	6400	7320	5220	2830	2930	2760
24	1920	2020	4590	2920	6860	6340	4410	6720	3870	3010	4530	2210
25	1740	2070	4620	3710	6060	9220	3620	6000	3600	1640	4410	1740
26	1720	2020	3560	3910	5210	8280	6210	5840	2680	2160	3910	1590
27	1760	1970	2370	3810	3570	14700	6720	5780	1920	3520	3700	1900
28	1820	2010	3140	4230	2960	9210	6300	5640	2180	3610	2070	2230
29	1830	4860	5320	3900	---	7880	5990	3520	3290	3580	1410	2200
30	1810	4520	3490	2920	---	9210	6080	2550	4010	3520	1950	2250
31	1730	---	3510	2460	---	10300	---	3470	---	2460	3430	---
TOTAL	91310	68790	181190	142510	183600	217300	273020	160890	107290	97980	100750	89190
MEAN	2945	2293	5845	4597	6557	7010	9101	5190	3576	3161	3250	2973
MAX	14400	4860	15500	12500	14800	15600	29100	12800	5220	5320	4640	6350
MIN	1410	1620	2370	2340	2670	3010	3620	2550	1920	1590	1410	1460

CAL YR 1982 TOTAL 1283920 MEAN 3518 MAX 36600 MIN 1410 MEAN† 4314 CFSM† 1.78 IN† 24.10
WTR YR 1983 TOTAL 1713920 MEAN 4695 MAX 29100 MIN 1410 MEAN† 4578 CFSM† 1.88 IN† 25.57

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER.

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to May 1972, July 1975 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: August 1975 to September 1976, November 1978 to current year.

INSTRUMENTATION.--Water-temperature recorder since November 1978.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. No daily water-temperature record Nov. 9-21.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 31.5°C June 24, 1981; minimum, 1.5°C Jan. 13, 1982.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 29.5°C July 23, 26, 27; minimum, 5.0°C Jan. 21, 22.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 06...	1045	1790	101	99	6.7	7.1	23.0	27.0	5.6	66
NOV 01...	1545	1570	93	94	--	7.0	18.5	26.0	7.9	86
DEC 08...	1300	5400	71	66	--	6.9	14.0	16.0	9.2	89
JAN 05...	1445	6270	64	61	7.0	7.0	9.5	15.0	10.0	90
FEB 02...	1330	18100	66	59	6.9	6.7	11.2	14.0	9.2	87
MAR 02...	1415	5220	73	74	7.0	7.0	11.0	24.5	10.2	95
APR 06...	1530	9530	57	55	7.0	6.8	12.5	24.0	9.4	90
MAY 02...	1300	2910	83	78	7.0	7.0	19.5	28.0	6.9	77
JUN 08...	1315	4920	71	69	7.1	7.0	21.0	31.0	7.3	85
JUL 07...	1030	5050	52	53	7.6	7.2	18.0	26.0	7.8	84
AUG 01...	1215	2650	88	93	6.9	6.8	23.0	28.0	5.9	70
SEP 06...	1315	4120	--	92	7.0	7.1	24.5	32.0	6.4	79

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC (MPN)	ALKA- LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 06...	10	1.3	490	17	20	96	1.8	.600	.490	4.0
NOV 01...	10	--	170	21	8	44	1.6	.290	.340	--
DEC 08...	52	2.0	4300	14	59	112	.68	.250	.230	6.9
JAN 05...	29	3.0	43000	14	44	72	.54	.240	.200	3.7
FEB 02...	110	5.6	43000	12	312	344	.44	.270	.520	10
MAR 02...	16	1.7	2300	17	34	72	.79	.340	.240	2.2
APR 06...	34	2.3	4300	13	90	156	.50	.310	.110	1.5
MAY 02...	10	1.5	330	19	19	52	.85	.290	.240	3.2
JUN 08...	54	3.0	7900	15	33	156	.76	.250	.320	4.7
JUL 07...	53	1.7	260	12	87	136	.68	.120	.190	2.6
AUG 01...	11	1.3	4900	17	25	100	1.5	.180	.280	2.9
SEP 06...	46	.3	7000	14	114	160	1.0	.140	.390	4.7

APALACHICOLA RIVER BASIN

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDEd (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEd (T/DAY)
OCT					
12...	1130	2390	21.5	48	308
12...	1135	2380	21.5	54	347
NOV					
22...	1300	2100	15.5	23	130
22...	1305	2100	15.5	25	142
30...	2305	4850	14.0	130	1700
DEC					
01...	1110	7640	14.0	237	4890
01...	1115	7640	14.0	255	5260
02...	1125	5790	14.0	134	2090
02...	1130	5790	14.0	127	1990
05...	1450	11600	17.0	493	15400
05...	1745	15200	17.0	532	21800
05...	1750	15200	17.0	523	21500
06...	0605	18700	16.5	504	25400
06...	1035	17400	16.0	374	17600
06...	1040	17400	16.0	371	17400
06...	1650	13200	15.5	279	9940
06...	1655	13200	15.5	395	14100
07...	0845	7520	14.5	222	4510
07...	0850	7520	14.5	218	4430
JAN					
04...	1315	7430	9.0	123	2470
04...	1320	7430	9.0	122	2450
FEB					
02...	0650	12100	11.0	435	15800
02...	0845	14700	11.0	527	20900
02...	0850	14700	11.0	559	22200
02...	1300	17900	11.0	604	29200
02...	1305	17900	11.0	587	28400
02...	1715	18800	11.5	696	35300
02...	1720	18800	11.5	649	32900
03...	0640	15700	11.0	293	12400
03...	0645	15700	11.0	298	12600
03...	1125	13200	10.5	286	10200
03...	1130	13200	10.5	296	10500
MAR					
06...	0835	14900	13.5	319	12800
06...	1125	17500	14.0	1030	48500
06...	1130	17500	14.0	997	47100
06...	1720	19400	15.0	972	50900
06...	1725	19400	15.0	985	51600
07...	0925	15600	14.5	391	16500
07...	0930	15600	14.5	452	19000
07...	1315	12000	14.5	380	12300
07...	1320	12000	14.5	379	12300
MAY					
10...	1220	4440	20.0	41	492
10...	1225	4440	20.0	41	492
JUN					
22...	1200	4350	22.0	125	1470
22...	1205	4350	22.0	130	1530
AUG					
01...	1220	2650	23.5	28	200
01...	1225	2650	23.5	29	208
SEP					
12...	1125	1750	25.5	36	170
12...	1130	1750	25.5	35	165

APALACHICOLA RIVER BASIN

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
NOV								
30...	2300	4850	73	82	92	98	100	--
30...	2305	4850	70	--	--	--	--	--
DEC								
02...	1125	5790	69	--	--	--	--	--
05...	1445	11600	71	82	94	99	100	--
05...	1450	11600	67	--	--	--	--	--
06...	0600	18700	66	76	88	97	99	100
06...	0605	18700	61	--	--	--	--	--
06...	1650	13200	68	--	--	--	--	--
FEB								
02...	0645	12100	57	71	87	98	100	--
02...	0650	12100	51	--	--	--	--	--
03...	0640	15700	56	--	--	--	--	--
MAR								
05...	0835	14900	72	--	--	--	--	--
06...	0840	14900	72	81	92	98	100	--
07...	0925	15600	68	--	--	--	--	--

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM
NOV										
05...	1015	2200	--	--	1	14	51	91	99	100
DEC										
01...	1110	7640	--	<1	6	46	93	100	--	--
01...	1111	7640	--	--	1	20	64	95	99	100
MAR										
21...	1425	10100	<1	<1	2	14	75	97	99	100
21...	1426	10100	--	<1	1	13	55	90	99	100
21...	1427	10100	--	<1	2	23	64	94	99	100

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

APALACHICOLA RIVER BASIN

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02338500 CHATTAHOOCHEE RIVER AT FRANKLIN, GA.

LOCATION.--Lat 33°16'45", long 85°06'00", Heard County, Hydrologic Unit 03130002, at bridge on U.S. Highway 27 at Franklin, and at mile 235.5.

DRAINAGE AREA.--2,680 mi², approximately.

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

REMARKS.--Flow regulated by Lake Sidney Lanier. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400).

Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Records of discharge for the calendar years 1928-31 and 1938-39 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT									
06...	1345	111	110	7.3	7.3	25.5	32.5	7.2	89
NOV									
01...	1445	110	112	--	7.3	19.0	30.0	8.9	97
DEC									
08...	1530	69	64	--	6.9	14.5	18.0	8.9	88
JAN									
05...	1615	63	59	7.0	7.1	9.5	15.0	11.4	102
FEB									
02...	1630	55	53	6.7	6.8	11.8	10.5	9.8	93
MAR									
02...	1530	83	82	7.1	7.1	11.5	27.5	10.6	100
APR									
07...	1130	62	58	7.0	6.9	13.0	27.0	9.2	89
MAY									
02...	1430	--	66	7.2	7.1	19.0	29.5	8.9	98
JUN									
09...	1400	76	74	7.1	7.0	20.5	30.0	6.8	78
JUL									
07...	0930	68	68	7.2	7.1	21.5	25.5	6.7	77
AUG									
02...	1245	78	86	6.9	7.0	25.0	29.5	6.6	81
SEP									
06...	1500	70	68	7.1	7.1	25.0	33.0	7.0	86

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINEITY LAB (MG/L AS CAC03)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
06...	14	1.0	80	17	20	100	1.8	.100	.350	4.0
NOV										
01...	8	--	80	17	3	68	1.8	.170	.280	--
DEC										
08...	62	1.9	2300	12	80	136	.65	.150	.210	8.2
JAN										
05...	40	1.8	2300	12	48	102	.59	.110	.190	5.9
FEB										
02...	85	3.3	2300	11	256	272	.50	.140	.410	7.6
MAR										
02...	15	1.3	390	17	33	72	.93	.350	.250	1.6
APR										
07...	40	1.9	9500	13	80	168	.53	.090	.220	3.4
MAY										
02...	8	.9	70	14	17	68	.55	.060	.110	1.6
JUN										
09...	27	2.3	7900	15	62	168	.36	.240	.230	3.3
JUL										
07...	70	2.0	2300	13	179	256	.98	.110	.240	3.2
AUG										
02...	58	1.8	4900	15	130	212	1.3	.090	.320	4.4
SEP										
06...	68	1.4	4900	14	94	172	.76	.030	.260	4.7

APALACHICOLA RIVER BASIN

02338660 NEW RIVER NEAR CORINTH, GA.

LOCATION.--Lat 33°14'07", long 84°59'16", Heard County, Hydrologic Unit 03130002, at bridge on State Highway 100, 1.7 mi downstream of Caney Creek, 2.5 mi west of Corinth, 3.9 mi downstream of Mountain Creek, and 8.1 mi upstream of Chattahoochee River.

DRAINAGE AREA.--127 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 634.68 ft, National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those of no gage-height record, Aug. 26 to Sept. 12, which are poor.

AVERAGE DISCHARGE.--5 years, 154 ft³/s, 16.47 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 13.92 ft April 14, 1979 (discharge not determined); minimum daily discharge, 1.5 ft³/s Oct. 7, 1981.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 6	0800	2560	10.54	Mar. 27	2100	1940	9.81
Mar. 6	2200	2380	10.33	Apr. 9	0800	*4330	11.86

Minimum daily discharge, 8.0 ft³/s Aug. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	38	509	167	159	195	335	167	113	96	73	12
2	11	38	348	380	619	176	336	158	105	76	268	25
3	11	43	188	702	783	167	371	148	92	65	220	20
4	11	66	148	452	340	159	271	164	89	59	77	50
5	11	66	722	300	233	171	230	143	93	57	59	80
6	11	53	1940	244	266	1330	232	128	90	62	48	50
7	12	48	568	216	280	1110	234	120	121	54	42	35
8	54	46	293	200	208	430	674	115	147	49	37	30
9	309	45	213	185	182	295	3180	114	111	45	35	27
10	148	44	175	152	172	230	918	109	92	43	33	24
11	66	44	366	155	168	206	518	121	80	40	31	22
12	54	48	1260	141	152	191	392	161	73	36	29	35
13	118	90	775	130	144	179	333	132	68	34	34	56
14	190	88	403	128	196	172	313	116	63	31	33	66
15	123	63	313	126	193	162	338	107	59	30	27	48
16	76	55	323	120	159	148	282	155	56	45	24	36
17	59	56	280	117	169	171	222	170	56	43	22	30
18	51	218	227	115	159	182	213	123	65	64	21	27
19	46	266	138	111	140	159	219	126	82	47	20	26
20	43	142	165	116	133	194	197	178	131	44	18	63
21	43	106	149	147	127	674	182	142	98	37	16	132
22	41	92	140	205	179	509	183	121	91	33	15	114
23	41	83	162	212	438	287	277	142	95	33	14	59
24	39	79	159	187	289	351	314	121	110	30	13	42
25	37	77	158	159	243	606	231	101	91	27	12	35
26	37	71	153	143	192	601	191	92	78	24	11	31
27	36	67	136	152	167	1230	180	97	82	26	10	29
28	36	82	171	157	161	1050	173	91	84	38	9.2	27
29	37	280	353	139	---	483	174	102	116	36	8.8	26
30	37	345	224	150	---	375	170	267	175	34	8.4	25
31	37	---	170	142	---	359	---	160	---	37	8.0	---
TOTAL	1837	2341	11379	6050	6651	12602	11883	4191	2806	1375	1276.4	1287
MEAN	59.3	94.7	367	195	238	407	396	135	93.5	44.4	41.2	42.9
MAX	309	345	1940	702	783	1330	3180	267	175	96	268	132
MIN	11	38	136	111	127	143	170	91	56	24	3.0	12
CFSM	.47	.75	2.89	1.54	1.87	3.21	3.12	1.06	.74	.35	.32	.34
IN.	.54	.83	3.33	1.77	1.95	3.69	3.48	1.23	.82	.40	.37	.38
CAL YR 1982	TOTAL	56582.0	MEAN 155	MAX 2500	MIN 11	CFSM 1.22	IN 16.57					
WTR YR 1983	TOTAL	64178.4	MEAN 176	MAX 3180	MIN 8.0	CFSM 1.39	IN 18.30					

APALACHICOLA RIVER BASIN

02338660 NEW RIVER NEAR CORINTH, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1978 to current year.

INSTRUMENTATION.--Water-temperature recorder since October 1978.

REMARKS.--No daily water-temperature record Aug. 2 to Sept. 12.

EXTREMES FOR PERIOD OF DAILY RECORDS.--

WATER TEMPERATURES: Maximum, 32.5°C July 16, 1981; minimum, 0.0°C Jan. 12-14, 18, Dec. 20-21, 1981.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum recorded, 29.5°C July 24-26; minimum, 1.0°C Jan. 20, 21.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

[illegible]

APALACHICOLA RIVER BASIN

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02338720 CHATTAHOOCHEE RIVER NEAR LA GRANGE, GA.

LOCATION.--Lat 33°04'42", long 85°06'39", Troup County, Hydrologic Unit 03130002, at La Grange waterworks intake, 1.2 mi upstream from Yellowjacket Creek, and 5.3 mi northwest of La Grange.

DRAINAGE AREA.--3,010 mi², approximately.

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

REMARKS.--Flow regulated by Lake Sidney Lanier. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.)

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	PH LAE (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 07...	0610	96	92	9.3	8.9	24.5	23.0	11.8	144
NOV 01...	1245	90	79	8.0	7.4	20.0	27.0	10.5	117
DEC 08...	1630	--	53	--	6.7	15.5	16.5	6.3	63
JAN 06...	1030	55	52	6.8	7.1	9.0	3.0	7.5	66
FEB 03...	1030	60	58	--	6.9	10.5	4.0	9.0	82
MAR 03...	0945	65	67	7.0	7.0	11.0	12.5	9.2	85
APR 07...	1330	56	54	7.0	7.0	15.0	22.0	9.5	96
MAY 03...	0730	60	64	7.5	7.3	19.0	20.5	9.3	102
JUN 09...	0945	54	61	9.1	8.5	25.0	25.0	10.2	127
JUL 07...	0630	78	78	8.1	8.6	28.0	26.0	9.1	119
AUG 02...	1000	52	91	--	7.4	28.5	25.0	7.0	92
SEP 07...	0830	76	78	8.0	7.5	27.0	25.0	8.2	105

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, CON- FIRMED (MPN)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY LAS (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 07...	5	--	3.6	330	<20	17	16	.48	.120	--	.080	5.0
NOV 01...	7	--	--	310	<20	19	4	.68	.020	--	.060	--
DEC 08...	76	--	1.8	23000	1500	11	55	.42	.150	--	.180	9.2
JAN 06...	54	--	1.7	43000	2300	11	35	.50	.120	--	.160	3.6
FEB 03...	85	--	1.9	23000	1500	12	57	.60	.220	--	.160	2.8
MAR 03...	22	--	.9	2300	150	14	14	.66	.230	--	.100	2.0
APR 07...	36	--	1.1	2300	930	12	71	.46	.100	--	.170	2.3
MAY 03...	13	--	1.0	4900	20	14	20	.51	.030	--	.080	1.7
JUN 09...	6	--	3.7	940	<20	15	12	.24	.100	--	.060	3.6
JUL 07...	6	7	3.1	460	<20	18	2	.32	.040	.50	.040	2.6
AUG 02...	5	12	1.5	1100	<20	20	11	.61	.130	.40	.080	2.1
SEP 07...	5	21	2.2	50	20	11	4	.57	.030	.60	.080	3.9

APALACHICOLA RIVER BASIN

02338840 YELLOWJACKET CREEK NEAR HOGANSVILLE, GA.

LOCATION.--Lat 33°08'22", long 84°58'31", Troup County, Hydrologic Unit 03130002, at bridge on Hammett Road, 0.7 mi downstream of Flat Creek, 5.8 mi southwest of Hogansville, and 6.9 mi upstream of Beech Creek.

DRAINAGE AREA.--91.0 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 640.93 ft (195.355 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Some diurnal fluctuation at low flow.

AVERAGE DISCHARGE.--5 years, 114 ft³/s, 17.01 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,990 ft³/s Apr. 21, 1982, gage height, 10.71 ft; minimum daily discharge, 2.8 ft³/s Oct. 3, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 6	0200	1490	7.77	Mar. 27	2400	1410	7.64
Dec. 12	1600	1410	7.64	Apr. 9	1100	*2070	8.61
Mar. 6	2400	1880	8.34				

Minimum daily discharge, 13 ft³/s Aug. 29-31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	28	340	123	132	145	220	129	77	55	44	15
2	17	29	190	427	692	135	224	126	72	52	300	19
3	18	36	134	790	687	122	200	125	68	47	224	26
4	19	47	113	358	257	115	166	134	69	44	74	34
5	20	46	950	206	183	143	151	123	76	48	53	44
6	21	37	1340	166	206	1370	148	112	71	57	48	36
7	28	33	487	144	202	1080	147	108	75	49	41	42
8	54	32	222	129	161	327	813	105	93	42	34	40
9	84	32	157	117	143	212	1720	107	81	39	32	33
10	51	31	129	111	134	163	692	101	73	37	29	27
11	33	31	480	115	138	145	365	103	66	36	27	24
12	47	37	1310	103	120	132	271	106	61	36	30	25
13	399	71	674	92	115	125	228	103	58	71	37	43
14	350	59	276	89	180	116	216	98	56	58	32	45
15	111	47	196	87	174	110	232	93	54	44	26	36
16	66	41	200	83	140	116	198	117	53	39	23	29
17	51	44	164	81	144	147	172	125	55	51	22	25
18	44	148	136	79	130	155	164	100	69	62	20	23
19	40	154	127	76	117	128	164	102	102	53	20	21
20	38	96	119	81	109	196	151	112	109	44	19	22
21	36	76	105	106	105	714	141	103	84	39	18	27
22	35	63	95	150	180	385	146	98	75	37	17	27
23	33	64	90	159	377	206	260	116	76	36	17	24
24	31	60	87	147	225	313	411	100	71	33	15	22
25	29	56	85	126	186	587	254	86	65	31	15	21
26	29	53	84	113	154	572	188	79	61	30	14	20
27	28	51	83	118	136	1220	163	76	61	29	14	19
28	28	66	138	119	128	929	149	73	65	27	14	19
29	27	246	254	107	---	355	140	75	69	25	13	18
30	27	292	173	113	---	254	134	100	69	24	13	20
31	28	---	133	109	---	251	---	92	---	30	13	---
TOTAL	1839	2111	9071	4826	5655	10973	8628	3227	2134	1305	1298	826
MEAN	59.3	70.4	293	156	202	354	288	104	71.1	42.1	41.9	27.5
MAX	399	292	1340	790	692	1370	1720	134	109	71	300	45
MIN	17	28	83	76	105	110	134	73	53	24	13	15
CFSM	.65	.77	3.22	1.71	2.22	3.89	3.17	1.14	.78	.46	.46	.30
IN.	.75	.86	3.71	1.97	2.31	4.49	3.53	1.32	.67	.53	.53	.34
CAL YR 1982	TOTAL	46021	MEAN 126	MAX 2120	MIN 13	CFSM 1.39	IN 18.81					
WTR YR 1983	TOTAL	51893	MEAN 142	MAX 1720	MIN 13	CFSM 1.56	IN 21.21					

02339225 WEHADKEE CREEK BELOW ROCK MILLS, ALA.

LOCATION.--Lat 33°07'20", long 85°14'57", Randolph County, Hydrologic Unit 03130002, on left bank 50 ft downstream of bridge on county road, 0.7 mi downstream from Little Wehadkee Creek, 2.1 mi upstream from Guss Creek, and 3.5 mi southeast of Rock Mills.

DRAINAGE AREA.--60.2 mi².

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

GAGE.--Water-stage recorder. Datum of gage is 647.21 ft, National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Some diurnal fluctuation at low flow.

AVERAGE DISCHARGE.--5 years, 95.8 ft³/s, 21.61 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,390 ft³/s Feb. 3, 1982, gage height, 14.42 ft; minimum daily discharge, 2.4 ft³/s Oct. 3, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 5	1645	1460	9.66	Mar. 21	0630	1330	9.35
Dec. 11	2330	1660	10.09	Mar. 27	0930	1670	10.10
Feb. 2	1300	1460	9.67	Apr. 8	2200	*3650	12.14
Mar. 6	0830	2250	10.83				

Minimum daily discharge, 11 ft³/s Aug. 30, 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	24	387	112	173	143	166	94	69	74	29	15
2	16	24	195	453	1100	111	253	113	66	59	135	18
3	16	47	131	390	331	102	169	119	61	52	50	22
4	17	31	113	194	198	97	152	123	65	46	35	48
5	17	48	972	152	163	151	138	108	66	44	36	46
6	16	36	529	131	201	1430	163	105	62	43	33	38
7	26	34	206	119	167	306	144	101	95	39	29	30
8	84	32	149	111	138	196	1330	98	97	36	26	26
9	64	31	125	104	127	156	1400	94	70	34	25	23
10	34	31	111	100	125	136	478	102	62	33	24	21
11	28	30	652	102	124	126	287	119	56	31	22	20
12	42	34	988	92	111	116	230	114	53	31	22	21
13	166	59	236	87	107	109	198	105	50	47	23	44
14	107	40	196	86	132	105	214	112	48	32	21	60
15	49	35	169	84	113	102	200	94	46	30	19	36
16	37	33	213	80	106	103	164	153	46	56	18	26
17	32	38	151	79	138	120	150	112	47	37	18	24
18	29	286	131	77	112	118	148	97	64	33	17	23
19	27	143	128	74	104	102	142	152	69	35	17	22
20	27	38	117	83	98	221	131	135	86	29	16	22
21	27	70	107	108	94	802	124	118	63	27	15	57
22	26	69	101	147	145	215	142	102	63	29	14	32
23	24	61	95	149	161	157	424	100	96	32	14	23
24	24	59	91	132	122	311	275	86	151	28	13	20
25	23	53	90	114	125	400	194	80	71	24	13	18
26	23	48	86	105	105	379	165	75	58	22	13	18
27	23	47	84	118	99	1240	146	71	55	21	12	17
28	22	73	206	107	103	378	135	67	148	20	12	16
29	22	208	209	98	---	239	123	71	364	19	12	19
30	22	382	130	107	---	193	120	101	115	18	11	17
31	23	---	111	95	---	198	---	74	---	19	11	---
TOTAL	1111	2244	7259	3990	4822	8562	8130	3247	2462	1080	755	822
MEAN	35.8	74.8	234	129	172	276	271	105	82.1	34.8	24.4	27.4
MAX	166	382	988	453	1100	1430	1400	185	364	74	135	60
MIN	16	24	54	74	94	97	120	67	46	18	11	15
CFSM	.60	1.24	3.89	2.14	2.86	4.59	4.50	1.74	1.36	.58	.41	.46
IN.	.69	1.39	4.49	2.47	2.98	5.29	5.02	2.01	1.52	.67	.47	.51
CAL YR 1982	TOTAL	41364	MEAN 113	MAX 4150	MIN 16	CFSM 1.85	IN 25.56					
WTR YR 1983	TOTAL	44484	MEAN 122	MAX 1430	MIN 11	CFSM 2.03	IN 27.49					

APALACHICOLA RIVER BASIN

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.

LOCATION.--Lat 32°53'10", long 85°10'56", Troup County, Hydrologic Unit 03130002, on right bank just downstream from Oseligee Creek at West Point, 1 mi upstream from bridge on U.S. Highway 29, 2.5 mi downstream from West Point Dam and at mile 198.9.

DRAINAGE AREA.--3,550 mi² (9,190 km²), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1896 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at site 0.8 mi 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, National Geodetic Vertical Datum of 1929. Prior to Oct. 20, 1912, nonrecording gage at site 0.8 mi downstream at datum 2.83 ft lower. Oct. 20, 1912, to Jan. 25, 1925, nonrecording gage at site 500 ft upstream at present datum.

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier since January 1956 and by West Point Lake since October 1974. (See "Lakes and Reservoirs in Apalachicola River Basin", stations 02334400 and 02339400.)

AVERAGE DISCHARGE.--87 years, 5,638 ft³/s, 21.57 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 134,000 ft³/s Dec. 10, 1919, gage height, 30.0 ft at site then in use; 29.25 ft at present site, from floodmarks, from rating curve extended above 80,000 ft³/s on basis of computation of peak flow over Langdale Dam; minimum, 224 ft³/s Sept. 12, 1925, gage height, 1.64 ft.

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 at former site and datum, from floodmark, by National Weather Service, discharge, 92,800 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 24,600 ft³/s Apr. 10, gage height, 12.59 ft; minimum daily, 730 ft³/s Oct. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5370	4620	6960	8700	7100	9580	15700	837	7000	5390	7240	7770
2	763	6090	6890	9460	7510	9560	16400	4700	7040	732	7320	7930
3	730	6140	9470	9640	8120	9470	16300	3070	7020	761	7350	973
4	4000	4650	9140	8700	8780	9510	16200	5330	967	5530	7310	920
5	3870	6080	17700	9350	8980	6510	11700	4760	814	5740	7370	6120
6	3850	867	17300	9360	9350	9540	11500	5730	6000	5760	1720	3930
7	3900	792	16000	9360	9400	10100	11600	837	6040	5750	736	3860
8	3830	5780	9590	9200	9230	10900	14100	792	6120	5660	7310	3880
9	857	5840	10100	9340	9310	10800	20700	3830	6020	828	5760	3350
10	812	5850	11800	9390	9250	10800	21800	3890	6060	814	4310	780
11	3530	5870	10100	9520	9300	10800	20000	3890	812	5640	4900	787
12	3570	5900	11200	9610	9310	9180	18500	3930	780	5720	4100	3470
13	2060	916	9820	9830	9270	9270	16300	4290	6460	5660	775	837
14	2170	857	9310	9920	9560	9330	16400	852	6530	5700	770	3470
15	2070	6450	9230	2920	9610	9340	16200	827	6530	5680	4740	3410
16	802	5330	9210	2710	9520	9410	12800	4320	6530	731	4760	3410
17	785	5930	9200	9490	9480	9400	11800	4440	6650	770	4780	815
18	3420	3570	9150	9780	9590	9490	12300	5470	843	5290	4740	804
19	3290	1050	9120	7230	1450	2030	12900	7180	798	5260	4820	3470
20	3210	926	9140	7030	1020	1970	9730	8370	6380	5280	3070	804
21	3230	894	9150	7170	9270	9570	9160	9670	6420	5310	754	2440
22	3250	5070	9090	1180	9480	9250	9480	7810	6480	6160	6650	826
23	764	4700	9170	1150	9540	8990	16800	9690	6390	770	6720	2430
24	760	5870	9190	7350	9460	9230	11300	8790	6380	761	6740	808
25	3320	4510	8570	6520	9470	9440	9800	8830	819	6690	6820	792
26	3300	5100	9140	6650	1100	9700	5330	8830	734	6700	6810	2370
27	3260	896	9230	6580	1020	11600	6710	8860	6360	6850	745	2460
28	3220	910	9440	6700	9240	16300	6720	3430	5410	6900	744	2380
29	3240	7140	9680	1070	---	15700	6810	3430	5450	6770	7490	2390
30	780	7180	9610	1050	---	15600	907	5980	5470	760	7670	2400
31	781	---	9660	6780	---	15600	---	7020	---	741	7710	---
TOTAL	78844	125778	312360	222740	223760	307970	386047	160795	145257	131308	152744	30586
MEAN	2543	4193	10080	7135	7991	9935	12870	5187	4842	4236	4927	2686
MAX	5370	7180	17700	9920	9610	16300	21800	9690	7040	6900	7710	7930
MIN	730	792	6890	1050	1020	1970	907	792	780	741	736	780
CAL YR 1982 TOTAL	1860020			MEAN 5096	MAX 26200	MIN 690	MEAN+ 5924	CFSM+ 1.67	IN+ 22.65			
WTR YR 1983 TOTAL	2328189			MEAN 6379	MAX 21800	MIN 730	MEAN+ 6321	CFSM+ 1.78	IN+ 24.17			

† ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER AND WEST POINT LAKE.

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.35	3.94	5.21	6.00	5.22	6.47	9.29	2.20	5.14	4.37	5.22	5.45
2	1.99	4.75	5.17	6.35	5.48	6.46	9.56	4.17	5.16	2.13	5.27	5.53
3	1.96	4.78	6.39	6.49	5.79	6.41	9.56	3.36	5.14	2.11	5.28	2.20
4	3.46	4.00	6.20	6.05	6.06	6.43	9.52	4.43	2.21	4.47	5.26	2.16
5	3.63	4.74	10.09	6.33	6.14	4.98	7.40	4.21	2.17	4.53	5.28	4.71
6	3.61	2.08	9.90	6.33	6.33	6.48	7.29	4.73	4.64	4.54	2.59	3.64
7	3.64	2.02	9.38	6.32	6.35	6.77	7.32	2.20	4.67	4.53	2.02	3.59
8	3.63	4.58	6.47	6.24	6.28	7.08	8.38	2.16	4.71	4.49	5.23	3.60
9	2.08	4.62	6.66	6.31	6.31	7.02	11.25	3.70	4.67	2.10	4.52	3.58
10	2.04	4.63	7.49	6.34	6.29	6.99	11.63	3.74	4.67	2.09	3.80	2.04
11	3.47	4.64	6.62	6.39	6.30	6.99	11.00	3.73	2.17	4.47	4.08	2.05
12	3.49	4.66	7.13	6.42	6.31	6.27	10.41	3.77	2.14	4.51	3.69	3.39
13	2.75	2.12	6.56	6.51	6.29	6.33	9.54	3.94	4.36	4.47	2.04	2.06
14	2.80	2.06	6.29	6.55	6.42	6.35	9.57	2.21	4.90	4.49	2.04	3.39
15	2.72	4.91	6.24	3.19	6.44	6.36	9.50	2.19	4.90	4.48	4.01	3.37
16	2.03	4.39	6.24	3.06	6.40	6.39	7.90	3.98	4.89	2.06	4.02	3.36
17	2.01	4.67	6.23	6.32	6.40	6.38	7.44	4.03	4.94	2.05	4.03	2.04
18	3.40	3.50	6.20	6.48	6.44	6.43	7.67	4.55	2.18	4.28	4.01	2.03
19	3.33	2.24	6.18	5.29	2.46	2.77	7.97	5.48	2.14	4.26	4.05	3.39
20	3.28	2.14	6.19	5.18	2.21	2.74	6.52	6.08	4.83	4.23	3.20	2.03
21	3.30	2.11	6.19	5.25	6.30	6.42	6.24	6.45	4.37	4.30	2.02	2.91
22	3.30	4.26	6.15	2.34	6.41	6.29	6.36	5.55	4.90	4.70	4.95	2.05
23	1.99	4.03	6.20	2.32	6.47	6.13	9.75	6.50	4.35	2.05	4.98	2.90
24	1.99	4.69	6.20	5.36	6.41	6.24	7.26	6.07	4.85	2.04	4.99	2.03
25	3.37	4.00	5.89	4.97	6.41	6.37	6.51	6.08	2.16	4.96	5.01	2.02
26	3.37	4.27	6.14	5.02	2.27	6.49	4.45	6.08	2.13	4.99	5.00	2.87
27	3.35	2.11	6.25	4.99	2.22	7.37	5.06	6.09	4.82	5.11	2.01	2.90
28	3.32	2.12	6.33	5.04	6.29	9.54	5.07	3.40	4.38	5.12	2.01	2.86
29	3.33	5.25	6.46	2.25	---	9.29	5.17	3.39	4.39	5.01	5.32	2.87
30	2.01	5.33	6.42	2.24	---	9.27	2.25	5.13	4.44	2.04	5.41	2.87
31	2.01	---	6.43	5.07	---	9.27	---	5.16	---	2.02	5.43	---
MEAN	2.94	3.79	6.63	5.26	5.67	6.61	7.90	4.35	4.10	3.73	4.09	3.00
MAX	4.35	5.33	10.09	6.55	6.47	9.54	11.63	6.50	5.16	5.12	5.43	5.53
MIN	1.96	2.02	5.17	2.24	2.21	2.74	2.25	2.16	2.13	2.02	2.01	2.02
WTR YR 1983	MEAN 4.84		MAX 11.63	MIN 1.96								

APALACHICOLA RIVER BASIN

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.--Continued

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
07...	0745	730	85	84	6.3	7.0	23.5	25.0	4.6	55
NOV										
01...	1045	781	85	86	6.6	7.2	18.0	22.0	7.8	83
DEC										
09...	0845	14400	85	82	--	7.2	15.0	12.0	11.2	111
JAN										
06...	0800	13700	59	59	7.0	7.0	10.0	-1.5	9.5	86
FEB										
03...	1200	13900	51	50	--	7.0	7.5	4.0	9.8	83
MAR										
03...	0730	14500	65	62	7.1	6.9	9.5	9.5	10.5	94
APR										
07...	1500	17000	52	51	7.0	6.9	12.5	21.0	9.4	90
MAY										
03...	0545	826	53	54	7.1	7.0	17.0	18.5	8.0	34
JUN										
09...	1230	837	62	61	7.3	7.2	23.0	29.0	7.6	91
JUL										
07...	0645	826	67	67	--	7.4	24.0	20.5	6.1	74
AUG										
02...	0645	593	73	74	7.1	7.2	25.0	22.5	5.2	64
SEP										
07...	0615	826	73	72	7.0	7.3	25.0	21.0	5.0	62

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CACO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)
OCT										
07...	2	.8	70	20	.30	.240	<.020	2.0	430	140
NOV										
01...	6	--	20	19	.62	.050	.020	--	300	60
DEC										
09...	7	.6	40	16	.84	.120	.060	2.6	320	75
JAN										
06...	19	1.5	<30	12	.57	.140	.070	2.9	690	110
FEB										
03...	40	1.5	430	13	.05	.080	.050	2.1	2600	130
MAR										
03...	11	.7	<30	13	.63	.300	.060	2.0	830	90
APR										
07...	21	.6	<30	11	.38	.110	.070	2.1	1600	80
MAY										
03...	10	.4	50	17	.31	.070	.040	1.7	970	35
JUN										
09...	8	1.7	130	20	.32	.170	<.020	2.5	600	120
JUL										
07...	11	.9	50	25	.12	.040	.030	1.7	1000	200
AUG										
02...	8	1.0	1700	25	.11	.090	.030	2.2	700	210
SEP										
07...	6	.7	230	19	.18	.120	.030	3.7	630	100

APALACHICOLA RIVER BASIN

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02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
OCT					
13...	0940	918	22.0	6	15
13...	0945	918	22.0	7	17
NOV					
01...	1420	12400	--	13	435
04...	1340	7770	--	11	231
04...	1345	7770	--	14	294
04...	1400	11600	--	16	501
04...	1405	11600	--	17	532
04...	1755	15500	--	6	251
04...	1800	15500	--	7	293
04...	1940	8050	--	5	109
04...	1945	8050	--	6	130
04...	2040	3990	--	4	43
04...	2045	3990	--	5	54
MAR					
28...	1800	16000	12.0	16	691
28...	1805	16000	12.0	16	691
APR					
09...	1820	19800	15.5	19	1020
09...	1825	19800	15.5	19	1020
11...	1130	20100	--	17	923
11...	1135	20100	--	16	368
MAY					
11...	0915	792	17.0	5	11
11...	0920	792	17.0	5	11
JUN					
23...	0955	815	24.0	3	6.6
23...	1000	815	24.0	3	6.6
AUG					
02...	1115	900	26.0	22	53
02...	1120	900	26.0	20	49
SEP					
13...	0950	788	24.5	2	4.3
13...	0955	788	24.5	1	2.1

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM
NOV							
01...	1420	12400	71	--	--	--	--
04...	1415	12400	67	77	87	98	100
04...	1940	8050	100	--	--	--	--

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
NOV												
04...	1300	942	--	--	1	8	16	22	27	42	78	100
APR												
11...	1250	20100	--	<1	1	21	75	88	89	91	100	--
11...	1251	20100	<1	<1	4	19	38	46	49	56	86	100
11...	1252	20100	<1	<1	6	21	41	66	78	87	100	--

APALACHICOLA RIVER BASIN

02339720 LONG CANE CREEK NEAR WEST POINT, GA.

LOCATION.--Lat 32°54'37", long 85°08'43", Troup County, Hydrologic Unit 03130002, at bridge on Webb Road 2.5 mi northeast of West Point.

DRAINAGE AREA.--74.8 mi², approximately.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 07...	0815	15	--	521	7.1	7.4	22.0	24.5	4.1	47
NOV 01...	0915	31	--	354	6.3	7.0	15.0	20.0	2.9	29
DEC 09...	0930	170	103	103	--	6.8	13.0	12.0	5.5	52
JAN 06...	0845	200	94	90	6.9	6.8	6.0	.5	8.2	67
FEB 03...	1130	540	68	66	--	6.7	3.2	4.5	8.9	77
MAR 03...	0815	140	110	115	6.9	6.9	11.5	9.0	6.2	58
APR 07...	1415	152	132	129	6.9	6.9	17.5	22.0	6.5	69
MAY 03...	0630	88	175	175	6.9	7.0	19.0	20.0	4.5	49
JUN 09...	1145	81	204	199	6.9	6.9	22.0	29.0	3.0	35
JUL 07...	0730	46	120	117	--	7.1	23.5	21.0	2.7	33
AUG 02...	0820	43	235	227	7.0	7.2	24.0	24.0	1.9	23
SEP 07...	0715	19	265	--	6.9	7.4	23.5	22.5	2.1	25

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CaCO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 07...	7	3.9	130	74	.20	3.40	2.03	14
NOV 01...	9	--	49000	54	.23	2.34	1.34	--
DEC 09...	21	1.0	43000	22	.18	.190	.200	6.5
JAN 06...	24	1.7	230	18	.34	.220	.150	3.5
FEB 03...	65	2.0	430	15	.17	.100	.170	5.9
MAR 03...	14	2.1	90	24	.25	.170	.300	5.0
APR 07...	12	2.4	430	25	.26	.220	.250	3.9
MAY 03...	14	2.3	250	34	.54	.260	.360	4.1
JUN 09...	15	3.0	510	36	.58	.400	.440	6.2
JUL 07...	20	2.4	790	35	.56	.240	.350	7.8
AUG 02...	21	5.3	3300	45	.10	.840	.990	9.7
SEP 07...	13	3.3	330	39	.33	.680	.770	9.4

02339780 CHATTAHOOCHEE RIVER AT LANGDALE, ALA.

LOCATION.--Lat 32°48'50", long 85°10'03", Chambers County, Ala.--Harris County, Ga., Hydrologic Unit 03130002, at right end of Langdale Dam, 0.3 mi upstream from Moores Creek, 2.8 mi downstream from Long Cane Creek, and 0.4 mi south of Langdale.

DRAINAGE AREA.--3,630 mi².

PERIOD OF RECORD.--October 1982 to current year.

GAGE.--Water-stage recorder.

REMARKS.--No gage-height record Oct. 1-4, Feb. 16 to Mar. 28, July 2 to Aug. 2, and Aug. 16 to Sept. 13. Flow regulated by Lake Sidney Lanier since January 1956 and by West Point Lake since October 1974. (See "Lakes and Reservoirs in Apalachicola River Basin," stations 02334400 and 02339400.)

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 11.10 ft Apr. 10, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.10 ft Apr. 10.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	8.59	9.19	9.40	9.14	---	10.31	7.35	8.92	8.67	---	---
2	---	9.11	9.16	9.56	9.28	---	10.36	8.18	8.92	---	---	---
3	---	9.12	9.50	9.70	9.42	---	10.36	8.57	8.93	---	9.03	---
4	---	8.93	9.35	9.52	9.43	---	10.34	8.69	7.65	---	8.97	---
5	8.37	9.01	10.58	9.55	9.39	---	9.77	8.82	7.85	---	8.98	---
6	8.36	8.27	10.61	9.50	9.50	---	9.70	9.00	8.54	---	7.91	---
7	8.32	8.07	10.43	9.50	9.52	---	9.72	7.72	8.75	---	8.00	---
8	8.43	8.89	9.63	9.43	9.48	---	10.02	7.11	8.81	---	8.75	---
9	7.64	9.08	9.51	9.49	9.49	---	10.90	8.03	8.76	---	8.76	---
10	7.11	9.08	9.90	9.51	9.49	---	10.86	8.60	8.74	---	8.37	---
11	8.41	9.09	9.62	9.52	9.49	---	10.70	8.63	7.48	---	8.32	---
12	8.39	9.10	9.34	9.52	9.49	---	10.57	8.61	6.43	---	8.24	---
13	8.34	8.31	9.69	9.54	9.49	---	10.35	8.65	8.62	---	7.65	---
14	8.34	8.13	9.51	9.56	9.53	---	10.35	7.65	8.82	---	7.88	8.27
15	8.31	9.00	9.44	8.39	9.55	---	10.36	6.62	8.81	---	8.53	8.16
16	7.66	9.10	9.43	8.13	---	---	9.88	8.04	8.78	---	---	8.17
17	6.55	9.06	9.43	9.37	---	---	9.79	8.70	8.32	---	---	7.93
18	7.69	8.79	9.41	9.52	---	---	9.82	8.77	7.66	---	---	8.10
19	8.63	8.26	9.41	9.25	---	---	9.94	9.28	7.61	---	---	9.36
20	9.59	8.17	9.40	9.12	---	---	9.65	9.50	8.36	---	---	7.24
21	8.59	8.13	9.39	9.15	---	---	9.46	9.43	8.39	---	---	8.00
22	8.59	8.85	9.38	8.14	---	---	9.48	9.11	8.88	---	---	7.02
23	8.12	8.78	9.39	9.03	---	---	10.45	9.52	8.86	---	---	7.43
24	8.05	9.16	9.39	9.07	---	---	9.66	9.34	8.84	---	---	7.47
25	8.55	8.92	9.23	9.08	---	---	9.49	9.35	7.92	---	---	7.88
26	8.65	8.93	9.32	9.08	---	---	8.94	9.34	7.47	---	---	8.03
27	8.64	8.24	9.44	9.08	---	---	9.07	9.34	8.38	---	---	7.89
28	8.63	8.13	9.46	9.09	---	---	9.11	8.43	8.71	---	---	7.84
29	8.64	9.13	9.53	8.02	---	10.33	9.19	7.87	8.64	---	---	7.84
30	8.15	9.32	9.52	7.82	---	10.31	7.97	8.98	8.76	---	---	7.86
31	8.06	---	9.51	8.92	---	10.31	---	8.95	---	---	---	---
MEAN	---	8.76	9.57	9.11	---	---	9.89	8.59	8.42	---	---	---
MAX	---	9.32	10.61	9.70	---	---	10.90	9.52	8.93	---	---	---
MIN	---	8.07	9.16	7.82	---	---	7.97	6.62	6.43	---	---	---

APALACHICOLA RIVER BASIN

02341500 CHATTAHOOCHEE RIVER AT COLUMBUS, GA.

LOCATION.--Lat 32°27'45", long 84°59'52", Muscogee County, Ga.--Russell County, Ala., Hydrologic Unit 03130003, on downstream side of center pier of Central of Georgia railway bridge at Columbus, 0.5 mi downstream from Eagle and Phenix Dam, 1.2 mi downstream from City Mills Dam, 2.6 mi downstream from North Highlands Dam, 3.3 mi downstream from Oliver Dam, 17.5 mi downstream from Bartletts Ferry Dam, and at mile 159.9.

DRAINAGE AREA.--4,670 mi², 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, National Geodetic Vertical Datum of 1929. Dec. 1-31, 1912, nonrecording gage at site 800 ft upstream at datum 2.0 ft higher, and Aug. 23, 1929, to Sept. 30, 1975, recording gage at present site, at datum 2.0 ft 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 except those below 1,500 cfs, which are poor. Flow regulated by Lake Sidney Lanier since January 1956, West Point Lake since October 1974, and by Lake Harding since 1939. (See "Lakes and Reservoirs in Apalachicola River Basin", stations 02334400, 02339400, and 02341000.) Records of chemical analyses for the period February 1968 to May 1972 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--54 years, 6,810 ft³/s, 19.30 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 145,000 ft³/s Feb. 26, 1961; maximum gage height, 47.8 ft Feb. 25, 1961; minimum discharge, 294 ft³/s Oct. 23, Nov. 14, 1931; minimum daily, 480 ft³/s Oct. 31, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known since at least 1827, 198,000 ft³/s Mar. 15, 1929, computation of flow at North Highlands Dam before redevelopment; maximum stage known, 53.2 ft Mar. 16, 1929.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 56,700 ft³/s Apr. 9; maximum gage height, 26.94 ft Apr. 9; minimum daily, 1,500 ft³/s Sept. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6200	3300	10500	13200	9660	7850	19000	2490	7230	6910	7790	7100
2	2900	5050	10100	20900	14400	7130	20600	7190	7530	2470	8120	7100
3	2300	6860	10400	27000	16600	5680	19900	6100	7770	2460	9960	5800
4	4400	7190	10300	16400	13400	7290	20600	5240	3400	5770	10300	3000
5	4900	5900	27800	13300	12900	8680	15200	6440	2440	6750	9870	6190
6	4300	3740	35600	12300	13300	37400	13900	6000	5230	6090	6490	7630
7	5000	2570	23900	12000	11600	28400	14000	2370	6960	7330	2300	5600
8	5800	4710	15900	11500	11000	18300	26100	2440	7000	5900	6100	5200
9	5200	5380	11700	11900	11800	12000	53100	4940	7050	2380	5800	5400
10	4500	7120	11700	11600	11600	18800	38600	5080	7020	2340	5600	2200
11	4600	6580	24500	11700	11300	11700	28100	4880	3100	6210	5400	1700
12	4300	6380	32500	11600	11400	12000	22300	5400	2980	6120	2700	1800
13	6200	5400	21800	12200	11100	11000	22600	4530	6150	6330	2000	1800
14	5700	2710	13900	10700	11600	11100	20300	2060	6580	6690	1900	3200
15	3600	5850	11400	9650	13900	12100	21900	2420	5950	6500	3000	2900
16	2100	5610	13000	6380	12200	11600	17200	5600	5680	2900	5500	3300
17	1600	6980	11500	7360	11800	12500	13200	5960	6560	2600	5400	1800
18	2900	6200	12300	9150	12800	11200	18100	6350	3420	6470	5600	1700
19	4100	5500	12100	9600	9720	6330	15700	7670	2120	5690	5600	3600
20	4200	2100	11500	8270	3100	6030	10100	5460	6310	6070	3000	1800
21	3200	2200	11500	9610	7490	11900	10900	9490	6520	5970	2300	1700
22	3700	5400	11300	7030	10200	12200	10800	9840	6270	7210	6640	1600
23	2000	5900	11100	5320	13200	13700	20000	9850	7050	2600	6550	2000
24	1700	6000	11400	7250	13100	13800	25500	10200	7100	2600	7650	1600
25	4200	5600	10400	8450	12700	12500	14300	10700	4650	7180	7340	1500
26	3400	5200	10400	9470	6580	14200	10600	9680	3150	6600	7650	1600
27	3000	3600	10600	8690	2650	30900	6500	10300	5210	6730	5440	2300
28	4000	3400	12600	9360	7760	30200	9520	5120	6500	7340	2100	1700
29	3000	7600	16700	4250	---	23200	9570	3700	7240	7560	7300	1900
30	1600	8400	14400	3920	---	19600	2770	6170	7050	4820	7200	2100
31	1800	---	11900	7850	---	20800	---	7660	---	2500	6800	---
TOTAL	116400	158430	464700	327940	308860	460140	550960	194330	172180	165120	179400	96820
MEAN	3755	5221	14990	10580	11030	14840	18370	6269	5739	5326	5787	3227
MAX	6200	8400	35600	27000	16600	37400	53100	10700	7770	7560	10300	7630
MIN	1600	2100	10100	3920	2650	5680	2770	2060	2120	2340	1900	1500

CAL YR 1982 TOTAL 2706000 MEAN 7414 MAX 47600 MIN 1600 MEAN+ 8170 CFSM+ 1.75 IN+ 23.75
WTR YR 1933 TOTAL 3195280 MEAN 8754 MAX 53100 MIN 1500 MEAN+ 8737 CFSM+ 1.87 IN+ 25.40

+ ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER, WEST POINT LAKE, AND LAKE HARDING.

02341500 CHATTAHOOCHEE RIVER AT COLUMBUS, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1932 TO SEPTEMBER 1933
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.35	4.70	8.94	10.27	8.68	3.08	13.71	6.83	3.33	8.23	7.35	8.09
2	5.94	5.39	8.75	13.45	11.31	7.63	14.04	8.52	3.30	6.81	7.89	8.00
3	5.68	6.32	8.90	17.40	12.61	6.53	13.88	8.37	3.35	6.54	8.79	7.19
4	6.35	6.55	8.67	12.98	11.19	6.99	14.01	7.85	6.79	7.60	9.05	6.85
5	6.67	5.92	15.72	11.05	10.56	7.69	11.39	5.13	6.55	7.97	9.08	7.65
6	6.23	4.79	20.47	10.39	10.87	20.92	11.08	8.01	7.64	7.57	7.89	8.30
7	6.47	4.47	15.80	10.02	10.24	18.88	11.19	6.59	8.29	8.05	7.17	7.63
8	6.98	5.41	12.19	9.63	10.00	13.99	15.40	6.66	8.34	7.41	8.58	7.70
9	6.51	5.70	9.98	9.71	10.15	10.33	26.01	7.55	8.37	6.10	6.15	7.65
10	6.32	6.52	9.57	9.68	10.05	13.53	22.77	7.61	8.14	6.21	8.18	6.59
11	6.84	6.25	14.68	9.85	9.78	10.43	18.05	7.59	6.68	7.64	7.91	6.75
12	6.54	6.55	---	9.62	9.69	10.27	15.19	7.74	6.78	7.33	6.80	6.90
13	7.13	5.51	---	9.90	9.55	9.77	15.14	7.44	7.94	7.33	6.42	6.80
14	7.01	4.54	---	9.03	10.32	9.82	14.20	6.70	3.01	7.25	6.44	7.37
15	6.21	6.40	---	8.66	11.57	10.16	14.89	6.94	7.67	7.12	6.78	7.39
16	5.33	6.19	---	7.06	10.63	9.99	13.04	8.17	7.37	5.82	7.22	7.35
17	5.36	6.56	---	7.47	10.22	10.46	11.09	8.07	7.58	5.82	7.21	6.73
18	5.94	6.59	---	8.29	10.65	10.13	12.91	8.06	6.31	7.24	7.21	6.84
19	5.93	5.83	---	8.39	9.19	8.24	12.16	8.40	5.94	6.83	7.04	7.60
20	6.36	---	---	7.74	6.38	7.79	9.63	3.61	7.40	6.96	6.18	6.91
21	5.51	---	9.66	8.51	7.92	10.42	9.78	8.95	7.56	6.78	6.07	6.89
22	5.52	---	9.44	7.57	9.20	10.50	9.54	9.11	7.62	7.33	7.34	6.66
23	4.68	---	9.22	6.64	10.86	11.10	13.30	9.17	7.81	5.65	7.15	6.62
24	4.75	---	9.28	7.46	10.64	11.20	16.54	9.25	7.93	5.79	7.60	6.33
25	5.89	---	8.80	7.78	10.42	10.64	11.75	9.65	7.24	7.44	7.31	6.44
26	5.34	---	8.86	8.32	7.88	11.35	9.90	9.10	7.03	7.12	7.41	6.54
27	5.13	---	8.99	7.98	5.83	18.38	8.04	9.41	7.76	7.10	6.41	6.55
28	5.31	---	9.93	8.34	7.93	18.73	9.08	7.37	8.19	7.31	5.70	6.09
29	4.77	---	12.09	5.86	---	15.83	9.13	7.03	8.48	7.36	7.56	6.06
30	3.86	---	11.18	5.82	---	13.96	6.81	7.37	8.44	6.03	7.61	6.03
31	3.96	---	9.79	7.72	---	14.27	---	3.48	---	5.67	7.63	---
MEAN	5.35	---	---	9.12	9.80	11.56	13.14	8.04	7.63	6.95	7.41	7.02
MAX	7.18	---	---	17.40	12.61	20.92	26.01	9.65	8.48	8.23	9.08	8.30
MIN	3.96	---	---	5.82	5.83	6.53	6.81	6.59	5.94	5.65	5.70	6.03

APALACHICOLA RIVER BASIN

02341800 UPATOI CREEK NEAR COLUMBUS, GA.

LOCATION.--Lat 32°24'48", long 84°49'12", Muscogee-Chattahoochee County line, Hydrologic Unit 03130003, at downstream side of pier near left end of bridge on Red Arrow Road at Fort Benning, 2 mi downstream from Randall Creek, 2 mi upstream from Ochiltee Creek, 8 mi southeast of Columbus, and 12 mi upstream from mouth.

DRAINAGE AREA.--342 mi².

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Altitude of gage is 230 ft, from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--15 years, 489 ft³/s, 19.42 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,300 ft³/s Apr. 1, 1981, gage height, 21.06 ft; minimum, 99 ft³/s July 19, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,500 ft³/s (revised from 2,500 ft³/s) and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 11	2315	*4700	11.33	Mar. 27	0915	3820	10.29
Jan. 2	1945	3780	10.23	Apr. 9	1015	4040	10.56
Mar. 6	0830	4280	10.86				

Minimum discharge, 123 ft³/s Aug. 24, 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	144	155	450	592	523	880	849	461	206	379	158	155
2	142	157	336	1910	2530	796	787	430	200	508	246	207
3	142	161	272	2560	1840	653	731	420	192	368	308	321
4	144	256	246	1280	1030	571	638	457	192	269	276	459
5	150	270	1060	355	751	542	587	426	193	221	235	318
6	146	211	1490	684	822	3140	610	387	233	237	208	246
7	154	176	805	593	791	2080	633	359	268	222	234	231
8	164	166	506	543	644	1220	1140	342	417	197	257	205
9	182	161	399	506	568	994	3320	378	372	179	243	189
10	176	159	354	488	539	752	2010	357	269	172	200	179
11	166	158	1460	494	560	676	1200	338	224	164	180	175
12	188	167	3020	458	509	623	915	367	201	158	166	205
13	221	260	1360	418	498	592	780	331	191	162	156	252
14	218	261	760	398	2030	559	735	304	182	158	150	288
15	201	208	575	390	2080	539	916	282	175	156	144	246
16	178	182	1200	372	1120	740	806	415	170	173	138	203
17	163	174	896	359	852	898	671	493	170	175	135	185
18	158	241	623	350	719	914	620	385	193	161	133	176
19	155	332	514	336	632	756	628	330	194	154	131	171
20	156	276	451	360	578	643	570	353	191	147	128	187
21	157	227	408	618	538	1050	521	351	188	149	130	293
22	159	206	381	1060	865	843	496	316	220	187	131	382
23	158	196	365	924	1410	670	1230	303	263	165	132	284
24	154	190	361	725	901	725	1970	274	283	153	126	206
25	151	182	355	573	740	907	1150	257	247	142	127	179
26	149	178	336	493	626	739	803	245	217	138	135	168
27	151	177	328	496	557	2790	653	234	283	141	136	160
28	151	187	374	566	588	1810	577	223	295	137	133	155
29	152	409	1010	497	---	1100	530	215	413	132	169	153
30	154	427	940	529	---	869	492	216	679	126	173	153
31	156	---	644	521	---	916	---	214	---	129	150	---
TOTAL	5040	6513	22279	20948	25841	30887	27568	10463	7521	5959	5368	6731
MEAN	163	217	719	676	923	996	919	338	251	192	173	224
MAX	221	427	3020	2560	2530	3140	3320	493	679	508	308	459
MIN	142	157	246	336	493	539	492	214	170	126	126	153
CFSM	.48	.64	2.10	1.98	2.70	2.91	2.69	.99	.73	.56	.51	.66
IN.	.55	.71	2.42	2.28	2.81	3.36	3.00	1.14	.52	.65	.58	.73

CAL YR 1982	TOTAL	172682	MEAN 473	MAX 4190	MIN 133	CFSM 1.38	IN 18.78
WTR YR 1983	TOTAL	175118	MEAN 480	MAX 3320	MIN 126	CFSM 1.40	IN 19.05

APALACHICOLA RIVER BASIN

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02341800 UPatoi CREEK NEAR COLUMBUS, GA.--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT					
13...	1645	222	24.5	40	24
DEC					
01...	1045	515	16.0	132	184
JAN					
12...	0945	465	6.5	30	38
MAR					
02...	1525	773	12.0	28	58
APR					
06...	1450	630	17.0	30	51
MAY					
11...	0940	336	19.5	27	24
18...	1300	380	21.0	32	33
JUN					
29...	1125	370	26.0	44	44
JUL					
12...	1040	158	25.5	12	5.1
AUG					
10...	1135	196	27.0	19	10
SEP					
13...	1825	265	24.5	30	21

APALACHICOLA RIVER BASIN

02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, ALA.
(National stream-quality accounting network station)

LOCATION.--Lat 31°15'33", long 85°06'37", Early County, Ga.-Houston County, Ala., Hydrologic Unit 03130004, at left end of George W. Andrews Lock and Dam, 1.3 mi downstream from Omusee Creek, 2.3 mi south of Columbia, Ala., and at mile 46.5.
DRAINAGE AREA.--8,210 mi², approximately.

WATER-DISCHARGE RECORDS

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

GAGE.--Gate-opening and water-stage recorders. Datum of headwater gage and tailwater gages is National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for periods of missing or doubtful headwater, tailwater, or gate record, Jan 3 to July 8, which are fair. Flow regulated by Lake Sidney Lanier, West Point Lake, Lake Harding, Walter F. George Lake, and George W. Andrews Reservoir. (See "Lakes and Reservoirs in Apalachicola River Basin," stations 02334400, 02339400, 02341000, and 02343240. No adjustments made for George W. Andrews Reservoir's annual change in contents, which is insignificant.)

AVERAGE DISCHARGE.--8 years, 11,860 ft³/s, 19.62 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 131,000 ft³/s, Jan. 27, 1978, maximum headwater gage height, 118.12 ft Jan. 27, 1978, maximum tailwater gage height, 116.66 ft Jan. 27, 1978; minimum daily discharge, 519 ft³/s June 13, 1982.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 1929, thought to be the highest since 1827, based on station on Chattahoochee River at Columbia, Ala., 2.4 mi upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 64,400 ft³/s Feb. 4, maximum headwater gage height, 104.01 ft Mar. 8, maximum tailwater gage height, 102.00 ft Mar. 8; minimum daily discharge, 643 ft³/s May 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7430	7170	13500	22700	14600	21800	29600	1050	12000	14900	7450	10600
2	979	8150	14100	11100	31400	21200	29700	6160	13200	14200	3510	8710
3	765	8520	17400	19300	25600	21000	29400	10400	10600	1970	8750	1830
4	6990	9250	11700	33200	24300	21000	29500	13700	1220	10000	8040	1720
5	7950	8350	29500	25700	21300	4240	23600	13800	648	11000	4600	5700
6	7410	1520	30300	28100	7020	29200	19400	13700	8910	11300	1300	6770
7	7590	1050	23300	28700	19200	44700	20400	1660	9500	10900	1690	5580
8	7750	5810	28200	21700	19300	46300	30400	969	13200	12700	9320	8420
9	1050	7250	27900	9580	19300	29400	44700	5830	12700	1560	9030	9020
10	691	7210	21300	16600	20000	28900	55900	3200	12500	1130	8940	1360
11	6710	7370	13400	17700	28700	28700	51900	8800	1550	7980	10700	1100
12	7590	7220	29400	17600	21200	20100	30500	8640	848	11200	9320	8440
13	7400	1420	28200	17300	13800	17700	29200	3480	10800	10700	1110	9480
14	7500	947	28000	17700	24100	18300	29200	2250	11200	11200	793	10300
15	7270	5650	28000	9090	23300	22200	31200	643	11600	10700	10900	8790
16	1090	7330	28500	4740	31300	21300	29300	10600	11300	1240	9980	8560
17	694	7370	28000	13200	30700	21900	28800	13700	11600	1240	8350	1200
18	6830	7270	18600	14300	21600	21800	29500	13300	1450	7480	3400	1130
19	5780	8210	6760	14200	18600	17700	21200	13400	768	8210	7140	8490
20	7210	1440	18200	14600	3370	14300	19600	14300	7600	7980	1170	8370
21	7130	1050	19000	16100	19500	28700	19400	15900	8510	8780	844	8400
22	7370	6440	19100	13100	19900	20400	19700	8170	9090	9030	8640	8290
23	977	7510	19300	12900	20400	22700	31700	13100	9180	1320	9510	3030
24	874	9480	19200	16300	21800	23800	21900	13700	8920	852	10900	1320
25	6510	5150	8870	16900	22000	23700	21700	13600	1240	7670	10300	1200
26	7690	7320	7190	7420	10400	20200	23700	13600	843	8470	10500	7510
27	7890	1250	16200	16300	7170	44100	15900	13600	7470	8830	932	8120
28	10700	876	16200	18200	18600	56100	11000	1950	10800	8470	806	7880
29	10200	7690	18500	2540	---	50200	7120	1090	22800	8420	6140	5400
30	1060	11300	30300	1320	---	29500	2660	9860	16100	1570	7690	6710
31	844	---	28300	10600	---	29800	---	9880	---	1090	7220	---
TOTAL	168974	178653	656520	491790	552460	821440	794780	234032	258147	232292	211475	191480
MEAN	5451	5955	21180	15860	20090	26500	25490	9162	8605	7493	6822	6383
MAX	10700	11300	30300	33200	31400	56100	55900	15900	22800	14900	10900	10600
MIN	691	376	6760	1320	7020	4240	2660	643	648	352	793	1100

CAL YR 1932 TOTAL 402335 MEAN 11020 MAX 68800 MIN 519 MEAN+ 11640 CFSM+ 1.42 IN+ 19.25
WTR YR 1933 TOTAL 4852043 MEAN 13290 MAX 56100 MIN 643 MEAN+ 13280 CFSM+ 1.62 IN+ 21.96

+ADJUSTED FOR CHANGE IN CONTENTS IN LAKE SIDNEY LANIER, WEST POINT LAKE, LAKE HARDING, AND WALTER F. GEORGE LAKE.

APALACHICOLA RIVER BASIN

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02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, ALA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1982 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 19...	1400	13800	75	75	7.2	7.1	22.0	8.2	94
JAN 25...	1400	22500	55	53	7.0	7.0	8.0	10.8	91
MAR 22...	1245	23700	50	46	7.2	6.9	13.5	9.2	88
MAY 10...	1200	1240	50	55	7.6	7.1	20.0	9.7	107
JUL 18...	1515	14700	61	55	7.2	6.7	29.5	5.0	66
AUG 24...	1100	9790	72	70	6.9	6.9	29.0	4.1	53

DATE	TUR- BID- ITY (VTU)	COLI- FORM, FECAL, JM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BOXYATE (MG/L AS CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT 19...	2.3	K12	K12	21	0	5.9	1.4	5.8	35	.6	1.5
JAN 25...	21	50	65	16	4	4.4	1.1	3.8	32	.4	1.8
MAR 22...	26	220	150	15	3	4.4	.97	3.4	31	.4	1.3
MAY 10...	8.8	23	34	17	3	4.8	1.1	3.0	26	.3	1.3
JUL 18...	2.3	47	28	19	1	5.7	1.1	4.6	32	.5	1.4
AUG 24...	1.8	31	320	20	0	6.0	1.3	5.3	34	.5	1.7

DATE	ALKA- LITY LAB (MG/L AS CAC03)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT 19...	20	2.4	8.0	4.3	.10	3.5	56	48	2090	.08
JAN 25...	12	2.3	6.5	3.6	.10	9.1	50	33	3040	.07
MAR 22...	12	1.5	11	3.4	<.10	7.9	46	40	2940	.06
MAY 10...	14	.7	7.3	3.1	<.10	5.9	41	36	137	.06
JUL 18...	18	2.2	6.2	3.6	.20	6.0	33	40	1310	.04
AUG 24...	21	5.1	7.6	4.3	.10	5.9	49	45	1300	.07

APALACHICOLA RIVER BASIN

02343801 CHATTAHOOCHEE RIVER NEAR COLUMBIA, ALA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
OCT 19...	.150	.050	.50	.020	--	<.010
JAN 25...	.500	.090	.10	.030	.040	.030
MAR 22...	.360	.050	.40	.040	.010	.010
MAY 10...	.270	<.010	.30	.050	.020	<.010
JUL 15...	<.100	.050	.40	.050	.010	<.010
AUG 24...	<.100	.040	1.1	.070	<.010	<.010

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
OCT 19...	40	1	24	<1	<1	--	<3	3	18	1
JAN 25...	<10	<1	21	<1	<1	<1	<3	1	180	10
MAY 10...	50	<1	23	<1	<1	2	<3	3	220	6
AUG 24...	50	1	34	<1	<1	<1	<3	4	91	2

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 19...	<4	1	<.1	<10	1	<1	<1	30	<6	<4
JAN 25...	<4	6	.1	<10	2	<1	<1	23	<6	<4
MAY 10...	<4	3	<.1	<10	8	<1	<1	23	<6	<3
AUG 24...	<4	5	.1	<10	1	<1	<1	31	<6	7

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- SIEVE CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .052 MM
OCT 19...	1405	13800	22.0	8	298	90
JAN 25...	1405	22500	8.0	17	1030	81
MAR 22...	1250	23700	13.5	20	1280	89
MAY 10...	1205	1240	20.0	8	27	100
AUG 24...	1105	9790	29.0	3	79	100

APALACHICOLA RIVER BASIN

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02344040 CHATTAHOOCHEE RIVER NEAR STEAM MILL, GA.

LOCATION.--Lat 30°58'39", long 85°00'19", Seminole County, Ga.--Jackson County, Fla., Hydrologic Unit 03130004, at Herman E. Talmadge Bridge on State Highway 91, 2 mi northwest of Steam Mill, and at mile 23.7.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Flow regulated by Lake Sidney Lanier, West Point Lake, Lake Harding, Walter F. George Reservoir (See "Lakes and Reservoirs in Apalachicola River Basin", stations 02334400, 02339400, 02341000, 02343240.), and by George W. Andrews Reservoir.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 19...	1225	93	89	7.4	7.7	24.0	23.0	8.9	106
NOV 16...	1300	100	95	7.4	7.4	16.0	18.0	10.0	102
DEC 15...	1345	87	89	7.0	7.4	14.5	22.5	9.0	89
JAN 25...	1225	69	69	7.2	7.3	8.0	11.0	11.7	99
FEB 23...	1235	71	71	7.2	7.3	12.0	18.0	10.8	102
MAR 23...	1340	64	65	7.2	7.2	13.5	15.5	9.9	96
APR 20...	1255	66	64	7.2	7.2	16.0	17.0	10.0	103
MAY 25...	1200	73	81	--	7.2	24.0	27.5	8.1	97
JUN 23...	1150	75	75	7.0	7.4	26.0	27.0	8.2	102
JUL 19...	1145	73	80	7.3	7.3	30.0	32.0	7.6	101
AUG 16...	1225	73	81	7.4	7.5	29.5	30.5	7.2	95
SEP 28...	1155	33	83	7.6	7.5	24.0	24.0	8.2	98

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINEITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 19...	20	8	1.5	130	25	1	.09	.020	.030	--
NOV 16...	20	5	2.0	90	26	5	.23	.030	.030	--
DEC 15...	30	15	1.2	230	18	9	.64	.060	.040	2.7
JAN 25...	65	31	.9	430	17	19	.45	.080	.050	6.1
FEB 23...	50	20	.2	1500	18	3	.43	.170	.040	5.5
MAR 23...	80	26	.9	40	14	21	.38	.040	.100	5.5
APR 20...	60	17	1.3	490	18	14	.37	.050	.060	4.9
MAY 25...	40	14	1.6	70	24	6	.37	.060	.030	3.3
JUN 23...	20	12	1.2	490	23	16	.26	.080	.020	3.1
JUL 19...	10	8	1.3	50	23	1	.26	.150	.040	6.3
AUG 16...	10	5	1.8	80	23	5	.11	.030	<.020	3.4
SEP 23...	20	6	1.6	50	23	<1	.14	.030	.100	10

APALACHICOLA RIVER BASIN

02344180 FLINT RIVER NEAR JONESBORO, GA.

LOCATION.--Lat 33°32'14", long 84°22'35", Clayton County, Hydrologic Unit 03130005, at bridge on State Highway 138, 0.8 mi west of U.S. Highway 41, and 1.5 mi northwest of Jonesboro, and at mile 338.1.

DRAINAGE AREA.--39.1 mi².

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHCS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHQS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 07...	1315	27	180	177	6.9	6.9	21.0	25.0	3.2
NOV 02...	1145	19	221	223	--	7.3	17.0	28.0	4.3
DEC 09...	1430	40	200	193	--	7.0	14.0	20.0	5.3
JAN 06...	1515	50	160	139	7.0	7.0	8.0	18.0	8.3
FEB 03...	1715	98	122	119	--	6.9	7.5	4.0	8.0
MAR 03...	1345	44	185	187	7.1	7.2	13.0	26.0	6.6
APR 07...	1915	52	168	152	7.0	7.0	17.0	25.0	6.5
MAY 03...	1230	32	170	168	7.0	7.1	19.0	19.0	5.0
JUN 09...	1830	26	190	185	7.1	7.1	21.5	27.0	4.7
JUL 06...	1000	21	190	192	6.9	7.2	24.0	29.0	4.1
AUG 02...	1830	31	146	142	6.9	7.7	24.5	23.0	4.0
SEP 07...	1230	350	80	79	6.7	7.3	23.0	29.0	5.1

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CAC03)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 07...	44	7.3	79000	32	73	212	1.4	.630	1.00	13
NOV 02...	12	1.9	--	53	3	108	1.6	4.16	1.13	--
DEC 09...	19	2.4	15000	36	3	112	1.9	.350	.440	5.6
JAN 06...	19	3.0	93000	30	12	116	1.6	.500	.340	4.3
FEB 03...	60	3.0	7500	27	21	104	.90	.480	.190	3.0
MAR 03...	13	2.5	6800	37	11	112	.74	.840	.410	4.6
APR 07...	18	2.2	430	35	10	116	.87	.980	.170	4.2
MAY 03...	17	2.8	1400	31	11	128	2.0	.670	.560	4.0
JUN 09...	16	2.4	330	38	11	144	1.6	.440	.450	5.2
JUL 06...	17	2.2	--	32	18	164	3.2	.400	.670	4.3
AUG 02...	34	3.4	17000	31	27	152	.68	.680	.310	7.3
SEP 07...	120	2.4	2800	25	30	168	.34	.070	.130	6.2

APALACHICOLA RIVER BASIN

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02344190 FLINT RIVER NEAR FAYETTEVILLE, GA.

LOCATION.--Lat 33°29'13", long 84°23'44", Fayette-Clayton County line, Hydrologic Unit 03130005, at bridge on State Highway 54, 200 ft east of Thomas Road, 0.2 mi upstream from Camp Creek, and 4.4 mi northeast of Fayetteville, and at mile 333.7.

DRAINAGE AREA.--49 mi².

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
07...	1245	23	250	243	7.0	7.1	21.0	25.0	4.4	50
NOV										
02...	1345	27	221	224	--	7.2	16.5	26.0	4.4	46
DEC										
09...	1345	70	149	143	--	7.3	13.0	20.0	6.5	62
JAN										
06...	1415	83	144	136	7.0	7.1	7.5	14.5	8.4	72
FEB										
03...	1645	135	87	83	--	6.8	7.8	4.0	8.3	71
MAR										
03...	1315	70	142	144	7.1	7.2	12.5	25.0	9.1	88
APR										
07...	1930	33	126	120	7.0	7.2	17.5	25.0	7.0	75
MAY										
03...	1145	44	150	153	7.0	7.5	19.0	25.0	5.5	61
JUN										
09...	1800	42	128	127	7.1	7.1	22.5	27.0	5.8	69
JUL										
06...	1100	30	150	157	7.0	7.2	24.0	28.0	4.5	55
AUG										
02...	1740	79	146	155	--	7.7	25.0	23.0	4.5	56
SEP										
07...	1145	700	63	60	6.5	6.7	23.0	29.0	5.4	65

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
07...	11	3.2	7900	34	17	180	3.6	.210	.900	5.0
NOV										
02...	8	1.4	--	43	1	114	1.9	.390	.400	--
DEC										
09...	17	1.0	1500	29	3	100	1.5	.070	.200	3.8
JAN										
06...	17	2.3	600	28	6	104	1.5	.340	.250	3.1
FEB										
03...	110	1.9	4300	16	20	92	.78	.110	.170	3.1
MAR										
03...	10	1.2	150	29	5	38	1.2	.250	.200	4.8
APR										
07...	15	1.4	90	27	9	92	.95	1.25	.060	3.4
MAY										
03...	17	1.6	220	32	14	116	2.2	.110	.370	3.5
JUN										
09...	20	1.4	140	30	13	132	1.3	.110	.360	5.6
JUL										
06...	20	1.9	--	33	16	136	1.9	.220	.340	2.2
AUG										
02...	23	2.3	790	30	19	120	.93	.350	.330	7.1
SEP										
07...	120	2.0	11000	10	42	172	.39	.060	.370	6.2

APALACHICOLA RIVER BASIN

02344380 FLINT RIVER NEAR INMAN, GA.

LOCATION.--Lat 33°23'08", long 84°23'24", Fayette-Clayton County line, Hydrologic Unit 03130005, at bridge on Ackert Road, 0.6 mi downstream from Gay Creek, and 1.4 mi east of State Highway 92 at Inman, and at mile 322.3.

DRAINAGE AREA.--158 mi².

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 07...	1145	33	160	154	7.1	7.3	21.0	25.0	6.3	72
NOV 02...	1500	53	153	151	--	7.3	16.5	26.5	7.3	76
DEC 09...	1300	245	83	82	6.9	7.1	12.5	13.0	7.5	71
JAN 06...	1315	285	86	83	6.9	6.9	7.0	15.0	9.2	78
FEB 03...	1545	1050	56	53	--	6.6	9.5	4.0	7.7	69
MAR 03...	1230	200	96	96	7.0	7.0	12.0	23.5	8.8	84
APR 07...	1745	280	86	85	7.0	7.0	17.0	24.0	7.5	79
MAY 03...	1115	145	102	105	7.1	7.1	19.5	26.0	6.7	75
JUN 09...	1715	175	101	99	7.0	7.1	21.5	27.0	6.3	74
JUL 06...	1300	75	115	118	7.2	7.3	25.0	28.5	5.4	67
AUG 02...	1645	122	160	162	7.2	7.5	25.0	27.0	5.5	68
SEP 07...	1100	270	80	78	6.7	7.1	23.0	27.5	5.4	64

DATE	TUR- BIO- IDITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINEITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NO2+N03 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 07...	8	1.3	490	34	4	120	.78	.170	.310	5.0
NOV 02...	8	1.2	--	34	<1	76	1.0	.050	.190	--
DEC 09...	23	1.0	230	16	7	68	.35	.040	.190	5.8
JAN 06...	22	1.6	430	15	9	72	.68	.110	.210	4.6
FEB 03...	130	1.5	430	10	28	112	.31	.050	.160	.7
MAR 03...	11	.9	70	22	7	72	.56	.070	.150	3.1
APR 07...	12	.9	<30	21	7	84	.59	.060	.100	2.1
MAY 03...	11	.8	170	26	9	72	.73	.070	.170	3.5
JUN 09...	17	1.1	110	24	10	104	1.3	.110	.190	4.8
JUL 06...	13	.9	--	31	7	100	.63	.160	.120	3.1
AUG 02...	14	1.2	140	36	16	132	.73	.150	.260	6.1
SEP 07...	27	.8	270	14	7	102	.18	.060	.200	6.4

APALACHICOLA RIVER BASIN

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02344400 FLINT RIVER ABOVE GRIFFIN, GA.

LOCATION.--Lat 33°18'33", long 84°23'36", Spalding-Fayette County line, Hydrologic Unit 03130005, at bridge on State Highway 92, 3.4 mi upstream from Central of Georgia Railroad bridge, and 8.5 mi northwest of Griffin, and at mile 313.2.

DRAINAGE AREA.--194 mi².

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 07...	1045	25	165	163	7.3	7.3	21.5	25.5	5.9	68
NOV 02...	1615	57	146	142	--	7.2	15.5	28.0	7.6	78
DEC 09...	1200	430	71	69	--	6.9	12.5	17.5	7.4	70
JAN 06...	1230	370	71	66	6.9	7.0	6.5	14.0	8.8	73
FEB 03...	1430	1800	68	63	--	6.7	9.0	4.5	8.5	75
MAR 03...	1145	180	86	88	7.0	7.0	11.0	24.0	9.4	88
APR 07...	1700	380	76	75	7.1	7.0	17.0	25.0	8.7	92
MAY 03...	1030	160	96	97	7.1	7.1	19.5	25.0	6.6	74
JUN 09...	1615	195	97	92	7.1	7.1	22.0	32.0	7.1	84
JUL 06...	1200	68	105	109	7.2	7.3	25.0	29.5	5.7	71
AUG 02...	1500	80	140	149	7.3	7.5	25.5	32.0	5.8	73
SEP 07...	1015	520	85	84	6.4	6.9	23.0	32.0	4.9	59

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, CON- FIRMED (MPN)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINEITY LAB (MG/L AS CaCO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)
OCT 07...	10	14	1.3	7900	1700	35	11	124
NOV 02...	10	13	1.2	--	--	34	<1	88
DEC 09...	23	21	1.1	9300	230	9.0	5	72
JAN 06...	26	13	1.3	2300	930	13	9	68
FEB 03...	80	20	2.2	75000	930	13	22	92
MAR 03...	10	12	.7	9300	70	20	9	72
APR 07...	10	16	1.0	2300	230	19	5	84
MAY 03...	11	12	.9	1400	50	26	9	56
JUN 09...	16	16	.7	3300	170	24	8	100
JUL 06...	15	11	1.1	--	--	29	9	100
AUG 02...	14	15	.9	13000	1300	36	13	124
SEP 07...	31	27	1.0	7900	790	12	10	92

APALACHICOLA RIVER BASIN

02344400 FLINT RIVER ABOVE GRIFFIN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT					
07...	.73	.140	.30	.400	5.0
NOV					
02...	.95	.070	.30	.160	--
DEC					
09...	.24	.030	.50	.170	--
JAN					
06...	.47	.050	.70	.140	4.0
FEB					
03...	.47	.050	.60	.190	4.3
MAR					
03...	.63	.080	.50	.130	3.3
APR					
07...	.45	.060	.30	.160	3.2
MAY					
03...	.66	.060	.40	.140	3.6
JUN					
09...	.64	.110	.30	.160	5.7
JUL					
06...	.40	.140	.40	.160	2.9
AUG					
02...	.78	.060	.50	.200	4.3
SEP					
07...	.20	.040	.40	.200	7.5

02344500 FLINT RIVER NEAR GRIFFIN, GA.

LOCATION.--Lat 33°14'39", long 84°25'45", Spalding County, Hydrologic Unit 03130005, at downstream side of pier of bridge on State Highway 16, 1.5 mi downstream from Shoal Creek, 5.5 mi upstream from Line Creek, 10 mi west of Griffin, and at mile 304.4.

DRAINAGE AREA.--272 mi².

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, National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Aug. 25, 1938, nonrecording gage at present site at datum 3.00 ft 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 of no gage-height record, Nov. 19 to Dec. 6 and Feb. 10 to Mar. 7, which are poor. Some diurnal fluctuation at low flow. City of Griffin diverted an average of about 8 ft³/s for municipal supply at pumping plant 6 mi above station. An average of about 1 ft³/s of the diversion was discharged as sewage effluent into tributaries of Towaliga River, and an average of about 3 ft³/s was returned as sewage effluent to Flint River about 49 mi downstream. Records of chemical analyses for the water years 1968-69, 1971-72, are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--46 years, 355 ft³/s, 17.72 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,200 ft³/s Nov. 27, 1948, gage height, 18.0 ft; minimum daily, 2.5 ft³/s Oct. 20, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 14 or 15, 1929, reached a stage of 17.9 ft, present datum, from floodmark located by local resident, discharge, 15,300 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar. 7	2000	*4530	12.80	Apr. 9	0300	4480	12.77
Mar. 27	2200	3120	11.89				

Minimum daily discharge, 26 ft³/s July 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	69	750	377	250	400	620	222	168	100	42	32
2	46	67	700	608	925	380	575	211	147	105	58	31
3	44	75	600	1310	1370	330	573	204	138	144	103	34
4	40	92	500	1580	1810	300	545	214	135	163	110	77
5	34	127	600	1380	1180	1000	526	224	134	111	87	186
6	33	160	1040	738	626	2500	445	228	142	96	67	322
7	33	135	1040	433	533	4300	460	200	168	98	164	447
8	54	102	1410	335	572	3230	1630	187	258	108	169	343
9	135	89	784	291	580	1280	3620	178	245	86	98	416
10	219	87	370	264	400	816	3810	166	223	73	116	402
11	259	86	506	257	350	590	2330	164	171	64	117	183
12	292	90	1700	244	300	386	1120	154	138	64	70	117
13	492	142	1560	231	270	329	726	152	121	58	53	90
14	461	179	1630	214	350	299	537	148	110	56	51	85
15	727	233	993	202	400	279	475	183	102	57	48	127
16	1210	208	582	195	360	269	450	246	91	69	38	158
17	598	140	446	189	340	316	441	303	95	55	33	130
18	205	144	439	179	290	371	396	292	104	61	31	92
19	130	190	392	171	270	356	366	277	110	70	33	86
20	105	350	310	168	250	380	369	231	120	63	37	113
21	98	370	278	198	230	1320	388	235	124	52	32	267
22	90	300	245	276	450	1240	319	267	154	45	29	331
23	88	230	234	364	950	1200	356	238	175	41	31	432
24	82	200	225	421	1100	908	633	211	147	44	31	461
25	74	180	227	417	850	1100	546	191	141	40	38	226
26	71	160	221	310	600	1210	474	169	117	44	44	129
27	66	140	209	269	450	2560	356	160	103	33	87	94
28	69	170	222	270	360	2970	290	151	96	30	78	80
29	67	350	369	259	---	2400	256	147	99	28	49	71
30	70	650	424	272	---	1160	231	151	108	26	37	65
31	70	---	524	254	---	730	---	160	---	28	33	---
TOTAL	6010	5515	19730	12676	16436	34909	24063	6264	4184	2112	2014	5627
MEAN	194	184	636	409	537	1126	802	202	139	68.1	65.0	188
MAX	1210	650	1700	1580	1810	4300	3820	303	258	163	169	461
MIN	33	67	209	168	230	269	231	147	91	26	29	31
CFSM	.71	.68	2.34	1.50	2.16	4.14	2.95	.74	.51	.25	.24	.69
IN.	.82	.75	2.70	1.73	2.25	4.77	3.29	.86	.57	.29	.28	.77
CAL YR 1982	TOTAL	130166	MEAN 357	MAX 4020	MIN 33	CFSM 1.31	IN 17.80					
WTR YR 1983	TOTAL	139540	MEAN 382	MAX 4300	MIN 26	CFSM 1.40	IN 19.08					

APALACHICOLA RIVER BASIN

02344700 LINE CREEK NEAR SENOIA, GA.

LOCATION.--Lat 33°19'10", long 84°31'25", Coweta-Fayette County line, Hydrologic Unit 03130005, on downstream side of bridge on State Highway 85, 2.2 mi northeast of Senoia, 4.1 mi upstream from Whitewater Creek, and 11.2 mi upstream from mouth.

DRAINAGE AREA.--101 mi², approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 740 ft, from topographic map.

REMARKS.--Records good except those of no gage-height record, Sept. 5-19, which are poor. Low flow affected by withdrawals and return flow by several municipalities.

AVERAGE DISCHARGE.--19 years, 135 ft³/s, 18.15 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,580 ft³/s Nov. 5, 1977, gage height, 14.88 ft; minimum daily discharge, 2.0 ft³/s July 18, 19, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 6	1500	1660	9.63	Mar. 7	0300	1700	9.85
Dec. 12	2000	1340	9.07	Mar. 27	2300	1930	10.19
Feb. 2	2400	1260	8.92	Apr. 9	1300	*2240	10.61

Minimum daily discharge, 3.5 ft³/s Aug. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	26	392	142	118	162	292	96	63	35	7.7	3.6
2	11	26	388	283	674	161	267	92	58	37	38	5.6
3	11	28	234	663	1070	134	263	90	52	40	160	9.9
4	12	46	153	586	468	120	234	108	50	33	53	65
5	12	55	270	307	256	126	185	106	57	27	41	120
6	12	44	1410	206	245	1100	173	88	52	30	59	100
7	18	37	926	169	319	1320	175	78	62	52	42	75
8	118	33	343	150	265	490	396	75	87	37	47	50
9	284	32	204	135	190	288	2000	72	76	27	32	35
10	152	31	157	125	164	205	1040	68	59	22	26	25
11	81	31	235	128	158	167	479	66	48	20	26	20
12	60	34	1040	122	143	145	324	65	42	17	20	35
13	209	89	984	107	129	131	245	66	37	16	17	50
14	254	101	434	101	171	124	209	64	34	15	13	55
15	358	68	261	98	196	118	230	61	31	14	11	40
16	140	52	251	97	155	120	226	78	29	14	9.5	30
17	67	43	240	91	147	154	173	102	29	14	8.6	25
18	48	108	160	89	143	167	158	83	40	15	8.3	20
19	39	242	139	85	123	157	181	73	49	13	7.9	18
20	34	180	142	84	115	152	165	101	66	13	7.4	24
21	32	109	130	105	106	513	140	108	75	13	6.8	89
22	32	88	116	172	172	668	130	90	56	11	6.3	118
23	30	84	107	207	550	325	163	89	48	11	5.5	68
24	29	77	102	182	482	288	219	86	45	11	5.8	39
25	27	69	101	143	274	524	197	70	40	9.9	4.6	29
26	25	58	100	121	208	626	148	60	34	9.0	4.1	24
27	24	53	97	120	160	1410	127	56	32	8.3	4.6	21
28	24	62	119	135	142	1410	116	53	35	8.3	4.2	19
29	24	196	269	124	---	521	108	52	38	7.3	3.8	17
30	25	348	262	123	---	334	101	68	38	6.9	3.5	16
31	25	---	165	120	---	290	---	76	---	6.8	3.6	---
TOTAL	2228	2450	9831	5320	7343	12450	3884	2440	1462	594.0	687.2	1244.1
MEAN	71.9	81.7	317	172	262	402	296	78.7	48.7	19.2	22.2	41.5
MAX	358	348	1410	663	1070	1410	2000	108	87	52	160	120
MIN	11	26	97	84	106	118	101	52	29	6.8	3.5	3.6
CFSM	.71	.81	3.14	1.70	2.59	3.98	2.93	.78	.48	.19	.22	.41
IN.	.82	.90	3.62	1.96	2.70	4.59	3.27	.90	.54	.22	.25	.46

CAL YR 1982	TOTAL	50560.5	MEAN 139	MAX 2380	MIN 9.6	CFSM 1.36	IN 18.62
WTR YR 1983	TOTAL	54933.3	MEAN 151	MAX 2000	MIN 3.5	CFSM 1.50	IN 20.23

APALACHICOLA RIVER BASIN

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02346180 FLINT RIVER NEAR THOMASTON, GA.

LOCATION.--Lat 32°50'20", long 84°25'27", Upson-Talbot County line, Hydrologic Unit 03130005, at downstream end of left bank pier of bridge on State Highway 36, 2.5 mi upstream from Lazar Creek, and 7.8 mi southwest of Thomaston.

DRAINAGE AREA.--1,220 mi², approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 490.00 ft, National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Records fair except those for periods of no gage-height record, Mar. 9-14, Apr. 10-26, and Sept. 8-20, which are poor.

AVERAGE DISCHARGE.--17 years, 1,688 ft³/s, 18.79 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,400 ft³/s Mar. 3, 1971, gage height, 18.4 ft, from floodmarks; minimum daily, 77 ft³/s Oct. 6, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Nov. 28, 1948 reached a stage of 19.3 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 7,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 13	0600	9310	12.31	Mar. 7	0700	14200	13.79
Jan. 3	2000	7680	11.74	Mar. 28	1300	11600	13.02
Feb. 3	1200	8050	11.88	Apr. 9	1700	*21600	15.66

Minimum daily discharge, 91 ft³/s Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	204	334	3250	2040	1510	2360	3640	1370	880	673	196	91
2	193	339	3360	3730	5130	2200	3120	1320	820	658	344	100
3	130	400	3080	7110	7610	1950	2930	1300	750	641	361	128
4	175	458	2370	6510	6160	1770	2700	1380	730	599	641	327
5	171	589	3080	5000	5100	1660	2460	1380	812	582	567	333
6	161	560	5470	4010	3910	8680	2570	1320	773	554	458	498
7	168	539	6280	2620	2870	13300	3090	1250	820	531	420	611
8	245	505	5070	1960	2580	10800	8730	1180	1230	524	452	700
9	706	455	3950	1710	2420	9000	19400	1160	1240	509	478	800
10	1350	417	2480	1560	2140	5000	15000	1120	1080	440	344	750
11	1210	409	2740	1500	1880	3500	10000	1080	928	388	306	650
12	904	444	7570	1440	1710	2500	7500	1060	789	356	311	500
13	1750	710	8690	1330	1620	2000	4500	1050	689	327	275	350
14	3200	940	6400	1250	2270	1700	3200	1050	632	302	234	370
15	2470	931	4910	1200	2500	1600	2700	1020	582	280	205	330
16	1800	869	3760	1160	2280	1600	2500	1110	548	340	188	400
17	1830	776	2680	1120	2150	1580	2300	1420	521	413	172	350
18	1430	734	2170	1090	1970	2170	2200	1360	558	488	160	300
19	834	1210	1890	1050	1740	2100	2100	1240	628	461	156	280
20	594	1370	1680	1060	1590	1970	2000	1210	696	408	156	355
21	522	1350	1500	1220	1480	4370	2100	1210	812	360	149	532
22	495	1220	1390	1740	2170	5650	1800	1190	775	325	132	671
23	458	1020	1280	2190	5130	4800	2500	1170	786	300	122	759
24	434	914	1200	2210	4990	4430	3500	1140	821	275	112	776
25	418	852	1170	2020	4510	5270	2700	1080	747	255	112	710
26	399	792	1160	1760	3810	5250	2300	954	664	240	115	465
27	383	751	1130	1580	2600	9710	1950	873	596	214	129	378
28	376	767	1210	1390	2080	11100	1670	823	595	205	149	306
29	371	1590	2160	1530	---	9870	1530	811	676	188	188	275
30	376	2600	2440	1490	---	7750	1440	828	681	164	142	245
31	376	---	2230	1490	---	5180	---	882	---	168	103	---
TOTAL	24233	24995	97740	67270	85910	151120	124130	35321	22859	12168	7877	13340
MEAN	792	833	3153	2170	3068	4875	4138	1139	762	393	254	445
MAX	3200	2600	8690	7110	7610	13300	19400	1420	1240	673	641	800
MIN	161	384	1130	1050	1480	1600	1440	811	521	164	103	91
CFSM	.64	.68	2.58	1.78	2.52	4.00	3.39	.93	.63	.32	.21	.37
IN.	.74	.76	2.98	2.05	2.62	4.61	3.78	1.08	.70	.37	.24	.41
CAL YR 1982	TOTAL	584741	MEAN	1602	MAX	14600	MIN	161	CFSM	1.31	IN	17.83
WTR YR 1983	TOTAL	666963	MEAN	1827	MAX	19400	MIN	91	CFSM	1.50	IN	20.34

02347500 FLINT RIVER NEAR CULLODEN, GA.

LOCATION.--Lat 32°43'17", long 84°13'57", Taylor-Upson County line, Hydrologic Unit 03130005, on left bank underneath bridge on U.S. Highway 19, 4 mi upstream from Auchumpkee Creek, 5 mi downstream from Swift Creek, 13 mi southwest of Culloden, and at mile 238.4.

DRAINAGE AREA.--1,850 mi², approximately.

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, National Geodetic Vertical Datum of 1929. July 1, 1911, to Oct. 11, 1918, nonrecording gage and Oct. 12, 1918, to May 31, 1923, water-stage recorder, at site 2.5 mi 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. Records of chemical analyses for the water years 1968-79 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--60 years (1911-22, 1928-31, 1937-83), 2,402 ft³/s, 17.63 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92,000 ft³/s Mar. 15, 1929, gage height, 38.4 ft, from graph based on gage readings; minimum observed, 92 ft³/s Oct. 4, 6, 7, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1912, that of Mar. 15, 1929.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 11,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 12	2300	12800	14.50	Mar. 7	1300	15900	16.65
Jan. 3	0300	12900	14.56	Mar. 27	1500	16000	16.68
Feb. 2	1600	11700	13.67	Apr. 10	0200	*31000	24.60

Minimum discharge, 230 ft³/s Oct. 7, gage height, 1.35 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	280	508	4840	3070	2310	4410	5620	2300	1150	1080	380	441
2	275	514	4490	6520	9240	4010	4720	2190	1110	1030	1200	383
3	258	531	3870	12700	11100	3310	4350	2140	1030	1060	717	473
4	243	654	3110	9930	8800	2880	3980	2230	983	930	824	478
5	241	858	4220	7110	6880	2610	3630	2210	1040	830	972	702
6	241	871	8760	5700	5660	10400	3590	2090	1070	810	760	625
7	233	790	7990	4140	4410	15500	4170	1950	1080	792	696	795
8	272	760	6450	3110	3790	12900	10400	1840	1530	740	729	845
9	462	714	5040	2660	3500	10700	28500	1790	1710	731	751	859
10	1210	664	3580	2410	3190	7480	27900	1740	1550	669	646	793
11	1420	636	4010	2270	2840	4450	17200	1670	1320	601	537	818
12	1090	644	12000	2160	2530	3460	12200	1640	1110	559	527	757
13	1540	1070	11800	1990	2410	2910	7780	1610	956	513	1030	585
14	3300	1250	8670	1350	5010	2650	5160	1610	870	490	529	603
15	3230	1190	6520	1760	5190	2490	4560	1520	310	458	427	562
16	2170	1080	6260	1680	4020	2440	4190	1590	764	451	386	509
17	2030	1000	4530	1620	3460	2840	3760	1940	731	617	368	509
18	1850	995	3460	1580	3130	3470	3460	1960	751	667	343	500
19	1230	1370	2880	1520	2780	3310	3280	1800	818	668	325	455
20	841	1640	2580	1520	2490	2940	3110	1740	888	597	308	524
21	726	1610	2310	1840	2290	5350	2960	1720	1010	531	294	763
22	676	1480	2110	3020	2480	7410	2830	1680	1110	486	284	1020
23	642	1300	1950	3790	6630	6280	3580	1620	1160	456	279	989
24	599	1130	1830	3620	6810	5610	6490	1570	1190	433	264	958
25	570	1050	1750	3180	5910	6870	5220	1470	1100	402	262	919
26	554	982	1710	2750	5220	6860	4120	1340	969	380	262	768
27	534	935	1670	2450	3970	13800	3390	1230	888	363	264	575
28	522	923	1680	2520	3170	15000	2930	1130	885	342	269	479
29	513	2550	3120	2390	---	12400	2630	1100	1130	323	379	430
30	512	3500	3980	2310	---	9990	2440	1130	1350	307	349	407
31	509	---	3390	2300	---	7570	---	1160	---	291	289	---
TOTAL	28743	33199	140550	105470	129320	202300	198150	52710	32073	18562	15705	19529
MEAN	927	1107	4534	3402	4619	6526	6605	1700	1069	599	507	651
MAX	3300	3500	12000	12700	11100	15500	28500	2300	1710	1080	1200	1020
MIN	233	508	1670	1520	2290	2440	2440	1100	731	291	262	383
CFSM	.50	.60	2.45	1.84	2.50	3.53	3.57	.92	.58	.32	.27	.35
IN.	.58	.67	2.83	2.12	2.60	4.07	3.98	1.06	.64	.37	.32	.39

CAL YR 1982 TOTAL 830297 MEAN 2275 MAX 21400 MIN 233 CFSM 1.23 IN 16.70
WTR YR 1983 TOTAL 976311 MEAN 2675 MAX 28500 MIN 233 CFSM 1.45 IN 19.63

02349500 FLINT RIVER AT MONTEZUMA, GA.

LOCATION.--Lat 32°17'53", long 84°02'38", Macon County, Hydrologic Unit 03130006, near left bank on downstream end of pier of bridge on State Highways 26 and 49, 1,000 ft upstream from Central of Georgia Railway bridge, 1,400 ft upstream from Seaboard Coast Line Railroad (formerly Atlanta, Birmingham and Coast) bridge, just upstream from Buck Creek, 1 mi west of Montezuma, and at mile 180.6.

DRAINAGE AREA.--2,900 mi², approximately; includes that of Buck Creek.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1904 to December 1912 (published as "near Montezuma"), July 1930 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at same site since 1904 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 822: Drainage area. WSP 852: 1936(M). WSP 1504: 1905-9, 1911-12, drainage area (at site used prior to 1912). WRD GA-82-1: 1981(P).

GAGE.--Water-stage recorder. Datum of gage is 255.83 ft, National Geodetic Vertical Datum of 1929. January 1905 to December 1909, and January 1911 to December 1912, nonrecording gage at site 1.5 mi upstream at same datum. July 1, 1930, to June 30, 1933, and Oct. 1, 1934, to Dec. 12, 1941, nonrecording gage, and Dec. 13, 1941, to Oct. 25, 1955, water-stage recorder at site 500 ft downstream at same datum.

REMARKS.--Records good. Records include flow of Buck Creek. Prior to Dec. 31, 1963, when operation was discontinued, moderate diurnal fluctuation at low flow caused by powerplant above station.

AVERAGE DISCHARGE.--61 years, 3,593 ft³/s, 16.83 in./yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,900 ft³/s Nov. 30, 1948, gage height, 25.2 ft; minimum daily, 516 ft³/s Oct. 5, 1981.

FLOODS OUTSIDE PERIOD OF RECORD.--Flood on Mar. 2, 1897, reached a stage of 26.0 ft at former site, from National Weather Service, discharge, 97,000 ft³/s, from rating curve extended above 10,000 ft³/s on basis of peak flows passing upstream and downstream stations.

Flood on Mar. 17, 1929, reached a stage of 27.4 ft, at present site, from National Weather Service, discharge, 92,300 ft³/s, from rating curve extended above 65,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 13,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 6	2100	13800	13.96	Mar. 31	0600	17600	15.53
Feb. 6	1700	13000	13.60	Apr. 12	0900	*32800	19.36
Mar. 10	1000	18200	15.76				

Minimum daily discharge, 769 ft³/s Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	845	1030	3990	6010	3910	6330	15600	3910	1960	2490	929	1290
2	832	1030	4620	5520	4390	6130	13200	3690	1950	2340	1060	1520
3	813	1060	5000	6260	6560	6620	10700	3540	1920	2150	1720	1600
4	803	1340	4790	7840	8270	6130	8490	3500	1860	2050	1830	1710
5	791	1600	4260	9810	10400	5130	6770	3510	1810	1360	1770	1600
6	775	1640	4320	13100	12700	7490	5850	3490	1830	1730	1810	1650
7	769	1640	6040	13100	12300	11400	5460	3330	2070	1670	1850	1560
8	783	1500	7100	10700	10300	11600	5680	3160	2690	1620	1960	1500
9	831	1400	7550	7360	7640	15100	6730	2990	3030	1540	1830	1520
10	876	1340	3030	4790	5780	17900	3840	2880	3150	1480	1500	1530
11	1140	1230	7310	4160	5250	16500	20700	2870	2880	1430	1440	1480
12	1740	1260	6560	3850	4680	13800	31900	2790	2410	1360	1370	1470
13	1760	1280	7470	3640	4520	10400	26100	2680	2090	1290	1370	1500
14	1310	1470	5500	3420	5950	6490	19100	2640	1880	1250	1670	1460
15	2930	1860	10800	3230	9510	4780	14700	2640	1750	1220	1480	1400
16	3560	1380	13200	3110	9200	4460	11000	2650	1660	1210	1230	1360
17	2950	1770	12500	3000	9520	4670	8170	2700	1590	1190	1110	1270
18	2510	1720	10400	2390	8660	5310	6360	2920	1540	1220	1040	1190
19	2410	1930	9510	2820	6410	5830	5500	3030	1510	1340	1010	1200
20	2060	2140	5680	2770	5100	5790	5050	2920	1590	1360	967	1350
21	1650	2420	4290	2930	4490	5790	4770	2830	1800	1310	935	1430
22	1420	2390	3740	3320	4300	6440	4540	2780	2120	1220	913	1610
23	1300	2260	3450	4520	5170	7400	4510	2720	2630	1170	390	1840
24	1280	2090	3250	5480	6120	8210	5120	2620	2390	1160	865	1810
25	1180	1390	3030	5680	7210	8760	6400	2520	2660	1120	352	1690
26	1140	1760	2910	5130	7910	8680	7280	2410	2360	1060	350	1610
27	1100	1680	2820	4480	8000	9070	7310	2270	2140	1010	356	1510
28	1080	1630	2760	4090	7500	9740	6030	2150	2000	979	364	1350
29	1050	1690	3700	3990	---	11300	4320	2030	2060	951	836	1220
30	1040	2600	5090	4010	---	15900	4230	1960	2250	924	897	1140
31	1030	---	6200	3970	---	17300	---	1960	---	921	929	---
TOTAL	44258	50640	138260	164980	201150	280650	290910	38090	64080	43625	38683	44370
MEAN	1428	1688	6073	5322	7184	9053	9697	2342	2136	1407	1248	1479
MAX	3560	2630	13200	13100	12700	17900	31900	3910	3150	2490	1960	1840
MIN	769	1030	2760	2770	3910	4460	4230	1960	1510	921	850	1140
CFSM	.49	.53	2.09	1.84	2.48	3.12	3.34	.98	.74	.49	.43	.51
IN.	.57	.65	2.41	2.12	2.58	3.60	3.73	1.13	.82	.56	.50	.57
CAL YR 1982	TOTAL	1312293	MEAN	3595	MAX	23800	MIN	769	CFSM	1.24	IN	16.83
WTR YR 1983	TOTAL	1499696	MEAN	4109	MAX	31900	MIN	769	CFSM	1.42	IN	19.24

02349500 FLINT RIVER AT MONTEZUMA, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.18	1.59	6.29	8.65	6.20	8.93	14.73	6.19	3.34	4.20	1.37	2.12
2	1.15	1.59	7.02	8.12	6.79	8.74	13.67	5.90	3.33	3.97	1.66	2.57
3	1.11	1.67	7.54	8.86	9.11	9.20	12.39	5.70	3.28	3.66	2.93	2.72
4	1.08	2.22	7.29	10.25	10.60	8.73	10.78	5.66	3.15	3.49	3.12	2.91
5	1.05	2.71	6.64	11.85	12.16	7.68	9.33	5.67	3.09	3.18	3.03	2.73
6	1.01	2.80	6.78	13.64	13.45	10.02	8.46	5.63	1.12	2.96	3.09	2.81
7	1.00	2.80	8.64	13.63	13.23	12.79	8.06	5.43	3.53	2.35	3.16	2.65
8	1.04	2.54	9.61	12.39	12.11	12.89	8.29	5.18	4.50	2.75	3.35	2.53
9	1.15	2.34	10.25	9.84	10.24	14.49	9.29	4.94	5.01	2.61	3.12	2.57
10	1.25	2.23	10.41	7.29	8.39	15.67	11.03	4.78	5.17	2.49	2.53	2.58
11	1.82	2.12	9.80	6.51	7.82	15.12	16.26	4.76	4.79	2.40	2.42	2.49
12	2.96	2.07	9.14	6.11	7.40	13.93	19.20	4.65	4.08	2.27	2.29	2.47
13	3.01	2.12	9.93	5.84	6.96	12.13	17.97	4.49	3.57	2.14	2.29	2.54
14	3.08	2.48	10.80	5.54	3.51	9.03	16.03	4.42	3.22	2.05	2.84	2.46
15	4.84	3.18	12.41	5.28	10.80	7.27	14.33	4.43	2.99	1.99	2.48	2.34
16	5.73	3.22	13.69	5.11	11.37	6.69	12.55	4.44	2.83	1.98	2.00	2.26
17	4.88	3.02	13.33	4.95	11.62	7.14	10.52	4.52	2.71	1.93	1.76	2.09
18	4.24	3.03	12.23	4.80	10.92	7.39	8.95	4.84	2.61	1.99	1.62	1.94
19	4.07	3.30	10.80	4.70	3.98	8.44	8.10	5.00	2.55	2.23	1.54	1.95
20	3.51	3.64	8.24	4.62	7.65	8.40	7.60	4.84	2.71	2.28	1.46	2.25
21	2.81	4.09	6.67	4.85	6.92	8.40	7.27	4.70	3.08	2.17	1.38	2.41
22	2.38	4.05	5.93	5.40	6.68	9.03	6.98	4.84	3.61	1.99	1.34	2.73
23	2.16	3.84	5.62	6.96	7.74	9.37	6.94	4.55	4.41	1.88	1.28	3.14
24	2.03	3.56	5.31	8.08	8.72	10.56	7.66	4.40	4.80	1.86	1.23	3.10
25	1.91	3.23	5.00	8.29	9.71	11.01	8.99	4.25	4.45	1.80	1.20	2.88
26	1.32	3.01	4.82	7.69	10.30	10.95	9.77	4.08	4.00	1.66	1.19	2.73
27	1.75	2.87	4.69	6.92	10.39	11.26	9.80	3.86	3.64	1.55	1.21	2.56
28	1.69	2.77	4.60	6.42	9.96	11.80	8.63	3.66	3.42	1.48	1.23	2.25
29	1.63	2.33	5.92	6.29	---	12.71	7.32	3.47	3.51	1.42	1.27	1.98
30	1.61	4.34	7.64	6.32	---	14.85	6.60	3.34	3.82	1.36	1.30	1.82
31	1.60	---	3.81	6.27	---	15.42	---	3.34	---	1.35	1.37	---
MEAN	2.28	2.54	8.26	7.47	9.45	10.69	10.58	4.70	3.61	2.32	2.00	2.49
MAX	5.73	4.34	13.69	13.64	13.45	15.67	19.20	6.19	5.17	4.20	3.35	3.14
MIN	1.00	1.59	4.60	4.62	6.20	6.89	6.60	3.34	2.55	1.35	1.19	1.82
CAL YR 1982	MEAN	5.11	MAX	17.43	MIN	1.00						
WTR YR 1983	MEAN	5.53	MAX	19.20	MIN	1.00						

APALACHICOLA RIVER BASIN

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02349500 FLINT RIVER AT MONTEZUMA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to July 1974, August 1976 to current year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
18...	1125	2500	51	52	6.7	7.0	18.0	19.5	8.2	87
NOV										
15...	1210	1830	64	61	7.3	7.4	13.5	14.0	9.2	89
DEC										
14...	1215	8440	33	37	6.5	6.5	9.0	9.0	9.7	84
JAN										
24...	1210	5560	43	41	7.0	6.9	6.0	8.0	10.3	84
FEB										
22...	1210	4160	43	41	6.3	7.0	12.0	15.0	9.4	89
MAR										
22...	1255	6470	--	40	6.8	6.9	12.5	14.0	9.0	85
APR										
19...	1130	5500	42	40	6.3	6.8	14.0	14.0	8.9	88
MAY										
24...	1035	2620	43	50	7.0	7.0	23.0	26.5	7.7	91
JUN										
22...	1135	2110	43	44	6.7	7.1	25.0	27.5	7.4	91
JUL										
18...	1005	1190	49	51	6.8	7.2	27.0	33.0	6.9	88
AUG										
15...	1100	1430	55	53	7.1	7.3	27.5	29.5	7.0	90
SEP										
27...	1050	1530	57	53	7.1	7.3	19.0	21.0	8.6	94

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT												
18...	140	31	--	.9	170	12	40	.25	.020	--	.030	--
NOV												
15...	40	13	--	.5	150	22	17	.10	.030	--	.040	--
DEC												
14...	200	110	--	1.6	4300	5.0	66	.22	.030	--	.120	6.9
JAN												
24...	100	32	--	.5	250	11	36	.24	.080	--	.050	7.4
FEB												
22...	50	18	--	.3	150	11	13	.18	.020	--	.030	4.5
MAR												
22...	110	21	--	.8	430	12	41	.18	.040	--	.090	4.8
APR												
19...	60	22	--	.2	20	12	28	.18	.030	--	.070	5.0
MAY												
24...	70	19	--	--	<20	16	21	.26	.040	--	.040	3.2
JUN												
22...	50	18	--	.8	3300	14	24	.14	.100	--	.050	3.2
JUL												
18...	25	10	5	.3	30	16	8	.21	.100	.30	.040	3.1
AUG												
15...	40	15	11	.6	170	13	19	.19	.030	.30	.040	4.4
SEP												
27...	40	11	11	.5	220	15	17	.31	.100	.20	.110	5.3

02349900 TURKEY CREEK AT BYROMVILLE, GA.

LOCATION.--Lat 32°11'44", long 83°54'03", Dooly County, Hydrologic Unit 03130006, on downstream side of bridge on State Highway 90, 0.5 mi southwest of Byromville, and 11 mi upstream from mouth.

DRAINAGE AREA.--45 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Water years 1951-58 (annual maximum), June 1958 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 286 ft, from topographic map. Prior to June 19, 1958, crest-stage gage at site 50 ft upstream at same datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--25 years (1958-83), 48.7 ft³/s, 14.70 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,820 ft³/s Apr. 1, 1981, gage height, 13.82 ft; minimum discharge, 0.1 ft³/s July 28, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 3	0400	484	9.77	Mar. 6	2100	707	10.28
Feb. 14	2000	*1690	11.65	Mar. 27	2300	491	9.79
Feb. 23	0200	488	9.78				

Minimum discharge, 3.6 ft³/s Aug. 23, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	6.7	13	198	100	159	123	31	8.8	23	4.5	20
2	6.7	6.8	12	203	250	140	104	23	9.2	19	26	22
3	6.6	12	11	287	363	109	91	28	8.9	11	32	28
4	6.7	44	11	210	163	95	77	33	8.3	8.4	13	25
5	6.7	21	14	145	120	87	68	30	7.6	7.6	9.9	14
6	6.7	12	19	120	122	450	65	26	7.7	8.3	11	9.8
7	6.7	10	15	106	132	369	65	23	14	7.2	8.1	8.2
8	7.7	9.2	12	93	105	194	76	22	18	6.4	7.2	7.4
9	8.6	8.9	12	85	96	140	123	22	15	5.9	7.8	7.2
10	7.8	8.6	11	81	94	110	268	21	12	5.2	6.5	6.8
11	7.7	8.4	28	76	142	93	161	28	10	5.3	5.9	8.0
12	7.9	9.0	162	69	142	83	110	20	9.3	5.3	5.4	9.7
13	11	15	173	59	120	76	88	19	3.6	5.4	5.2	14
14	10	12	33	55	1030	72	79	18	3.4	4.9	4.9	32
15	9.1	10	56	54	836	69	99	17	8.1	5.0	4.7	18
16	8.4	9.7	67	50	325	91	96	19	8.0	6.5	4.5	12
17	7.9	9.5	64	48	266	186	73	19	8.0	5.5	4.4	9.1
18	7.5	15	46	46	232	273	63	17	8.0	5.1	4.3	7.7
19	7.4	19	40	43	171	164	67	17	8.0	4.5	4.2	8.9
20	7.3	15	37	46	146	126	60	18	7.8	4.4	4.0	18
21	7.3	13	33	105	127	166	53	18	11	4.4	3.9	18
22	7.1	13	29	199	175	153	48	17	17	4.3	4.0	16
23	7.1	13	27	167	335	109	72	16	16	4.2	3.8	12
24	7.0	12	27	130	197	115	91	14	57	4.2	3.8	9.1
25	6.8	11	26	102	151	156	70	13	25	4.0	3.9	7.0
26	6.6	10	25	85	125	120	54	12	15	4.1	4.2	6.1
27	6.6	10	24	83	97	305	44	12	11	4.0	4.5	5.7
28	6.6	10	28	90	103	333	41	11	9.8	4.0	4.5	5.5
29	6.5	12	177	80	---	175	36	11	9.5	4.0	4.4	5.3
30	6.5	14	314	104	---	132	33	10	9.3	4.1	3.9	5.3
31	6.6	---	255	131	---	127	---	9.7	---	4.2	3.8	---
TOTAL	229.7	379.8	1951	3350	6235	4976	2498	599.7	373.8	204.4	218.2	375.8
MEAN	7.41	12.7	59.7	108	223	161	33.3	19.3	12.5	6.59	7.04	12.5
MAX	11	44	314	287	1030	450	268	33	57	28	32	32
MIN	6.5	6.7	11	43	84	69	33	9.7	7.6	4.0	3.8	5.3
CF5M	.17	.28	1.33	2.40	4.96	3.58	1.85	.43	.28	.15	.16	.28
IN.	.19	.31	1.53	2.77	5.15	4.11	2.06	.50	.31	.17	.18	.31

CAL YR 1982 TOTAL 16248.8 MEAN 44.5 MAX 522 MIN 6.5 CF5M .99 IN 13.43
WTR YR 1983 TOTAL 21291.4 MEAN 53.3 MAX 1030 MIN 3.8 CF5M 1.30 IN 17.60

APALACHICOLA RIVER BASIN

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02350001 FLINT RIVER NEAR VIENNA, GA.

LOCATION.--Lat 32°03'38", long 83°58'36", Dooly County, Hydrologic Unit 03100206, at bridge on State Route 27, 0.2 mi downstream of Turkey Creek, and 12 mi west of Vienna, and at mile 154.1.

DRAINAGE AREA.--3,390 mi².

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Records of discharge for the water years 1927-30 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT									
19...	1225	71	72	6.7	7.0	18.0	24.0	9.0	95
NOV									
15...	1315	125	120	7.2	7.3	14.0	17.5	9.3	91
DEC									
14...	1110	55	54	6.7	6.8	9.0	10.0	9.4	81
JAN									
24...	1330	59	56	6.9	6.9	5.5	10.5	9.9	80
FEB									
22...	1340	63	62	6.9	6.9	12.0	16.0	11.0	104
MAR									
22...	1115	63	60	6.4	6.8	12.5	13.5	8.6	82
APR									
19...	1025	58	55	6.8	6.8	14.0	11.0	8.3	82
MAY									
24...	0900	72	73	6.9	6.9	23.0	24.5	7.2	85
JUN									
22...	0940	72	70	6.7	7.2	25.0	27.5	7.2	89
JUL									
18...	0910	83	85	6.9	7.2	28.5	29.0	6.2	81
AUG									
15...	0915	101	101	7.1	7.5	28.0	28.5	6.3	81
SEP									
27...	0940	92	94	7.1	7.3	20.0	21.0	8.1	90

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINEITY LAB (MG/L AS CaCO ₃)	NITRO- GEN, NO ₂ +NO ₃ TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
18...	140	30	.7	110	13	.23	.040	.080	--
NOV									
15...	40	11	.4	230	20	.16	.050	.040	--
DEC									
14...	300	100	1.4	2300	10	.22	.030	.120	3.1
JAN									
24...	60	25	.5	930	12	.37	.120	.040	5.4
FEB									
22...	60	17	<.1	90	13	.28	.030	.030	4.7
MAR									
22...	100	17	.6	930	11	.24	.050	.090	4.5
APR									
19...	100	21	.3	110	12	.19	.040	.060	6.1
MAY									
24...	70	17	--	80	16	.30	.100	.040	7.1
JUN									
22...	45	13	.7	170	17	.16	.020	.020	2.5
JUL									
18...	40	13	.3	220	17	.24	.090	.080	3.7
AUG									
15...	55	10	.4	20	15	.24	.020	.040	3.7
SEP									
27...	50	10	.8	170	16	.26	.100	.080	6.5

02350600 KINCHAFOONEE CREEK AT PRESTON, GA.

LOCATION.--Lat 32°03'09", long 84°32'54", Webster County, Hydrologic Unit 03130007, at bridge on State Highway 41, 1 mi southwest of Preston, and 1 mi upstream from Harrel Mill Creek.

DRAINAGE AREA.--197 mi².

PERIOD OF RECORD.--December 1969 to September 1970, November 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, Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey. Water discharge records for the water years 1951-77 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

		DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	
		APR 05...	1130	370	34	33	6.7	6.7	15.0	8.0	80	
		JUL 18...	1130	84	35	34	6.9	6.7	24.5	6.8	83	
DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)
APR 05...	60	8.1	12	3	3.7	.8	1.6	21	.2	.6	10	3.9
JUL 18...	110	15	13	2	4.0	.8	2.0	24	.2	.7	11	2.7
DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 DIS- SOLVED TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
APR 05...	6.3	2.8	<.10	4.3	33	27	33.0	.05	<.10	<.10	<.010	<.010
JUL 18...	3.7	2.9	<.10	6.9	26	29	5.9	.04	.20	.21	.050	.030
DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)
APR 05...	--	--	.30	.30	--	--	.020	<.010	6.1	20	1	1
JUL 18...	.35	.27	.40	.30	.60	.51	.050	.020	7.6	10	1	1
DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, DIS- SOLVED (UG/L AS ZN)	
APR 05...	1	<10	1	530	10	4	110	.1	<.1	<1	<3	
JUL 18...	1	<10	1	1100	17	7	130	.3	.3	<1	4	

APALACHICOLA RIVER BASIN

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02351890 MUCKALEE CREEK AT STATE HIGHWAY 195, NEAR LEESBURG, GA.

LOCATION.--Lat 31°46'34", long 84°08'22", Lee County, Hydrologic Unit 03130007, at bridge on State Highway 195, 75 ft downstream from White Oak Branch, 3.3 mi downstream from Muckaloochee Creek, and 4.0 mi northeast of Leesburg.

DRAINAGE AREA.--362 mi².

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

REVISED RECORDS.--WRD GA-82-1: 1980(P), 1981(P).

GAGE.--Water-stage recorder. Altitude of gage is 220 ft, from topographic map.

REMARKS.--Records good except for period of no gage-height record Oct. 1-14, which are fair. Discharges during growing season affected by undetermined amount of irrigation withdrawal.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,810 ft³/s Mar. 8, 1983, gage height, 13.20 ft; minimum discharge, 28 ft³/s July 16, 1981.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,200 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 3	0300	1450	10.57	Mar. 8	1800	*4810	13.20
Feb. 4	1000	1920	11.13	Mar. 20	0200	1490	10.62
Feb. 16	0300	4130	12.81	Mar. 29	0300	2090	11.29

Minimum discharge, 66 ft³/s Aug. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	116	278	1170	675	874	1100	360	165	391	94	136
2	122	119	313	1370	832	921	929	341	165	354	111	184
3	119	125	331	1420	1180	975	832	335	160	302	126	276
4	114	205	730	1310	1840	963	777	354	153	240	138	305
5	112	247	321	1130	1570	891	725	340	160	205	154	343
6	111	236	344	1060	1440	1100	667	339	215	198	172	321
7	112	353	361	956	1100	1540	626	343	427	191	207	240
8	115	332	445	308	822	3780	607	319	624	180	182	199
9	127	317	550	662	701	3340	734	290	544	169	182	173
10	141	210	544	594	654	1790	955	278	547	150	211	154
11	155	184	523	558	666	1170	1020	285	481	136	223	140
12	153	178	523	520	653	907	992	279	372	131	194	130
13	146	200	534	481	697	776	867	291	244	123	157	163
14	139	216	642	443	1470	705	744	331	199	115	132	272
15	136	243	763	412	3200	658	712	324	176	109	116	306
16	142	243	739	390	4050	706	675	330	160	104	103	315
17	145	225	628	376	3470	867	659	325	147	108	90	253
18	138	241	556	365	2360	1210	644	320	145	119	82	206
19	129	283	633	354	1530	1420	604	337	143	125	77	175
20	123	300	569	359	1120	1450	563	327	138	122	71	184
21	120	324	438	506	901	1290	521	313	152	117	69	206
22	121	320	356	673	818	1100	497	313	366	103	67	240
23	120	289	321	794	901	979	539	318	581	96	80	266
24	120	247	301	843	1030	948	535	297	894	98	84	268
25	117	222	289	522	1150	1050	582	265	1030	96	84	240
26	115	210	283	772	1130	990	576	236	325	94	82	203
27	113	202	280	727	927	1130	543	269	529	89	86	168
28	112	197	282	681	823	1300	507	190	466	80	93	152
29	113	227	502	643	---	1970	443	179	417	75	100	144
30	114	254	739	652	---	1730	389	171	378	71	100	139
31	113	---	934	659	---	1410	---	167	---	76	98	---
TOTAL	3884	7177	14652	22560	37760	40490	20614	9106	11003	4567	3765	6506
MEAN	125	239	473	728	1349	1306	687	294	367	147	121	217
MAX	155	332	934	1420	4050	3730	1100	360	1030	391	223	343
MIN	111	116	278	354	653	653	389	167	138	71	67	130
CFSM	.35	.66	1.31	2.01	3.73	3.61	1.90	.81	1.01	.41	.33	.60
IN.	.40	.74	1.51	2.32	3.38	4.16	2.12	.94	1.13	.47	.39	.67
CAL YR 1982 TOTAL	163924	MEAN 449	MAX 2610	MIN 111	CFSM 1.24	IN 16.85						
WTR YR 1983 TOTAL	182084	MEAN 499	MAX 4050	MIN 67	CFSM 1.33	IN 18.71						

APALACHICOLA RIVER BASIN

02352500 FLINT RIVER AT ALBANY, GA.

LOCATION.--Lat 31°35'39", long 84°08'39", Dougherty County, Hydrologic Unit 03130008, on right bank at downstream side of Georgia Northern Railway bridge in Albany, and at mile 103.4.
DRAINAGE AREA.--5,310 mi², 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 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, National Geodetic Vertical Datum of 1929. Prior to Jan. 1, 1902, non-recording gage at site 1 mi downstream at datum 1.3 ft lower. Jan. 1, 1902, to June 30, 1921, nonrecording gage at site 1 mi downstream at datum 2.0 ft lower.

REMARKS.--Records good. Flow regulated by powerplants at Flint River Reservoir since 1921, capacity, 7,500 acre-ft; and at Warwick Reservoir since 1930, capacity about 35,000 acre-ft. Normal operation of powerplants does not materially affect figures of monthly runoff.

AVERAGE DISCHARGE.--73 years (1901-20, 1929-83), 6,303 ft³/s, 16.12 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 77,000 ft³/s Mar. 7, 1966, gage height, 34.72 ft; minimum daily, 327 ft³/s regulated Aug. 24, 1930.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1893, 37.84 ft Jan. 21, 1925, from floodmark, present site and datum, discharge, 92,000 ft³/s, from rating curve extended above 75,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 20,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 7	0745	21400	16.10	Apr. 2	0730	23300	17.49
Feb. 16	1330	30600	21.58	Apr. 14	2030	*32100	22.27
Mar. 8	1830	30000	21.29				

Minimum daily discharge, 960 ft³/s Sept. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2670	1740	4460	15700	10600	14100	21900	5710	3400	4480	980	1530
2	2890	2010	5890	18100	10900	13400	23000	5780	2720	4940	1340	1190
3	2410	1820	6230	17500	12600	11900	21500	6140	2940	3550	1970	960
4	2310	4760	6440	16600	13900	13100	18100	6150	3180	3690	2120	1290
5	2130	2710	6560	14900	16500	13100	14400	5650	1770	3570	1960	1700
6	2480	2610	6590	15000	17700	16600	12500	5250	2490	3430	1880	1770
7	2400	3390	6740	17300	19800	21800	10900	6570	5170	3260	2520	2400
8	2470	2560	7460	18200	15100	27000	10700	5040	5980	3320	3900	3420
9	2770	2790	7220	17700	16600	28100	11900	4400	5230	2620	4290	2940
10	2500	2530	9060	13500	14900	25600	16300	5220	5410	2310	3070	2310
11	2060	2470	10400	8850	12900	23900	17300	5110	5470	1770	2740	2210
12	2210	1870	10200	6180	11300	23100	19000	4300	5330	2240	2760	1770
13	2180	2200	9980	6260	10700	20600	23500	4230	3590	2040	2110	1960
14	2760	2710	9940	6260	17000	18000	29800	4390	4280	2010	1680	4500
15	5450	2620	10100	5980	25700	12000	31000	4900	3390	2010	1370	3230
16	1850	2810	11400	5720	29300	10400	23300	4180	2310	1790	1900	3530
17	2980	3140	16200	4380	27900	12400	21700	6550	1510	1180	2080	2600
18	4460	3210	15800	5740	23300	14300	15800	3860	1990	1370	2090	2210
19	3070	3950	15300	5280	21000	15300	13100	5140	2320	2080	2280	1740
20	2810	3780	12800	6190	17100	16100	9950	5070	2540	2410	2020	2430
21	2720	3580	10200	7420	11800	15400	10200	5130	2620	2660	1600	3280
22	2550	3870	5150	6150	11700	13600	8030	4330	4180	2250	1450	2200
23	2210	4000	7280	10800	10900	13700	10200	4030	4640	2010	2490	2340
24	2040	3320	4230	12100	12000	14100	9860	4940	6700	1970	2420	2320
25	2100	3170	5400	11200	14000	16500	7390	4730	6660	1610	1830	3080
26	1780	2790	4590	11000	14100	15000	11200	2770	6410	2870	1820	2820
27	1840	2900	4210	11000	15100	16100	9420	3800	4290	2020	1270	2320
28	1650	2810	4220	11000	14000	19300	12800	2880	5930	1720	961	2600
29	1850	2680	11700	9360	---	20400	9400	3960	3780	1780	1020	2480
30	1830	3510	11100	7260	---	20200	9040	2050	4000	1090	1290	1400
31	1510	---	11500	8570	---	19700	---	4120	---	965	1500	---
TOTAL	76940	88310	268400	331700	448400	534800	468190	146330	120230	75015	62771	70530
MEAN	2482	2944	8658	10700	16010	17250	15610	4720	4008	2420	2025	2351
MAX	5450	4760	16200	18200	29300	28100	31000	6570	6700	4940	4290	4500
MIN	1510	1740	4210	4880	10600	10400	7390	2050	1510	965	961	760
CFSM	.47	.55	1.63	2.02	3.02	3.25	2.94	.89	.76	.46	.38	.44
IN.	.54	.62	1.88	2.32	3.14	3.75	3.28	1.03	.84	.53	.44	.49

CAL YR 1982	TOTAL	2269060	MEAN	6217	MAX	24300	MIN	1460	CFSM	1.17	IN	15.90
WTR YR 1983	TOTAL	2691616	MEAN	7374	MAX	31000	MIN	960	CFSM	1.39	IN	18.86

APALACHICOLA RIVER BASIN

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02352500 FLINT RIVER AT ALBANY, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.12	3.25	5.33	11.93	3.63	10.30	16.44	6.03	4.65	5.35	2.32	3.04
2	4.32	3.55	6.12	13.69	8.85	10.27	17.28	6.06	4.14	5.53	2.75	2.58
3	3.90	3.35	6.34	13.19	9.81	9.38	16.15	6.26	4.30	4.64	3.49	2.29
4	3.80	5.44	6.43	12.48	10.61	10.10	13.73	6.21	4.48	4.79	3.64	2.71
5	3.64	4.01	6.50	11.32	12.49	10.08	11.03	5.98	3.31	4.74	3.47	3.20
6	3.96	4.08	6.52	11.43	13.35	12.60	9.77	5.78	3.89	4.54	3.40	3.29
7	3.90	4.67	6.59	13.07	14.91	16.38	3.84	6.50	5.72	4.55	4.04	3.90
8	3.95	4.05	6.98	13.75	11.42	19.72	5.69	5.66	6.15	4.60	5.00	4.67
9	4.21	4.24	6.85	13.40	12.52	20.31	9.38	5.30	5.76	4.06	5.24	4.28
10	4.00	4.03	7.82	10.44	11.34	18.99	12.28	5.76	5.85	3.79	4.43	3.79
11	3.60	3.99	8.57	7.70	9.97	17.94	13.07	5.70	5.90	3.29	4.13	3.70
12	3.72	3.39	8.44	6.21	9.05	17.33	14.31	5.24	5.81	3.73	4.16	3.30
13	3.70	3.73	8.29	6.25	8.73	15.53	17.60	5.21	4.74	3.57	3.61	3.48
14	4.20	4.17	8.27	6.33	12.35	13.57	21.16	5.31	5.19	3.52	3.21	5.33
15	5.77	4.11	8.37	6.17	18.90	9.62	21.76	5.54	4.62	3.50	2.83	4.45
16	3.38	4.26	9.12	6.03	20.93	8.54	20.44	5.18	3.76	3.30	3.40	4.75
17	4.37	4.47	12.24	5.58	20.20	9.71	16.26	6.48	3.01	2.60	3.57	4.04
18	5.25	4.55	11.94	6.04	17.48	10.88	12.00	4.97	3.50	2.79	3.54	3.74
19	4.42	5.04	11.63	5.79	15.81	11.61	10.16	5.70	3.80	3.56	3.76	3.20
20	4.23	4.93	9.99	6.29	12.95	12.13	3.30	5.68	4.00	3.87	3.51	3.91
21	4.15	4.80	8.42	6.95	9.34	11.66	8.42	5.71	4.07	4.04	3.12	4.60
22	4.05	5.01	5.62	6.26	9.30	10.40	7.26	5.26	5.16	3.70	2.95	3.69
23	3.73	5.07	6.87	8.81	8.84	10.47	8.44	5.12	5.44	3.51	3.95	3.82
24	3.58	4.61	5.20	9.53	9.44	10.75	8.24	5.61	6.99	3.43	3.87	3.82
25	3.62	4.50	5.34	9.03	10.67	12.48	6.91	5.50	6.41	3.09	3.32	4.46
26	3.30	4.24	5.39	8.87	10.77	11.37	9.00	4.14	6.38	4.25	3.30	4.19
27	3.36	4.32	5.19	9.87	11.43	12.17	8.01	4.92	5.17	3.48	2.72	3.81
28	3.14	4.25	5.21	8.89	10.69	14.55	9.96	4.26	6.13	3.22	2.29	4.05
29	3.36	4.15	9.34	7.98	---	15.39	8.01	4.99	4.34	3.31	2.37	3.99
30	3.37	4.75	8.92	6.87	---	15.25	7.78	3.54	5.06	2.46	2.74	2.85
31	3.00	---	9.15	7.55	---	14.87	---	5.13	---	2.30	3.00	---
MEAN	3.91	4.30	7.66	8.93	12.19	13.06	12.02	5.44	4.94	3.78	3.46	3.76
MAX	5.77	5.44	12.24	13.75	20.93	20.31	21.76	6.50	6.99	5.53	5.24	5.33
MIN	3.00	3.25	5.19	5.58	8.63	8.54	6.91	3.54	3.01	2.30	2.29	2.29
CAL YR 1982	MEAN 6.23		MAX 18.22	MIN 2.92								
WTR YR 1983	MEAN 6.92		MAX 21.76	MIN 2.29								

APALACHICOLA RIVER BASIN

02352500 FLINT RIVER AT ALBANY, GA.--Continued

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
DEC 14...	0945	9930	72	69	7.0	7.1	12.0	5.5	10.4	96
MAR 22...	1005	13500	72	70	--	7.1	13.0	12.0	10.1	97
JUN 22...	0830	4010	95	94	7.1	7.5	26.0	26.5	7.0	88
SEP 27...	0830	1840	118	121	--	7.7	22.0	20.5	7.6	87

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LILITY LAB (MG/L AS CAO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
DEC 14...	120	30	1.1	2300	17	.29	.090	.120	5.6
MAR 22...	80	15	.6	230	18	.40	.050	.080	5.9
JUN 22...	45	12	1.0	2200	37	.34	.100	.040	2.2
SEP 27...	30	6	.5	<20	43	.62	.210	.100	5.7

02352790 FLINT RIVER NEAR PUTNEY, GA.

LOCATION.--Lat 31°26'39", long 84°08'16", Dougherty County, Hydrologic Unit 03130008, at Plant Mitchell intake, and 2.5 mi south of Putney, and at mile 90.8.

DRAINAGE AREA.--5,340 mi², approximately.

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

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: July 1979 to current year.

INSTRUMENTATION.--Water-temperature recorder since July 1979.

REMARKS.--Flow regulated by powerplants at Flint River and Warwick Reservoirs. (See remarks for station 02352500.) Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. No daily water-temperature record Oct. 1-24 and April 24 to May 23.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 31.0°C July 15-18, 1980, July 26-29, 1981; minimum, 5.0°C Jan. 13, 1981, Jan. 15-18, 1982.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 30.5°C July 24, 26; minimum, 6.5°C Jan. 22, 23.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW/ INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	pH (STAND- ARD UNITS)	pH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 19...	1430	3000	--	--	--	7.7	21.5	27.0	8.0	91
NOV 16...	1515	2900	117	111	7.5	7.5	15.0	19.5	9.2	92
DEC 15...	1530	10900	73	75	7.1	7.3	12.5	21.0	10.2	97
JAN 25...	1440	10200	93	93	7.4	7.4	7.5	13.0	12.0	101
FEB 23...	1440	10600	77	76	7.2	7.3	13.5	16.5	10.0	98
MAR 23...	1540	13000	81	81	7.1	7.3	14.0	16.0	10.1	99
APR 20...	1500	9090	82	81	7.2	7.4	16.0	19.0	9.5	98
MAY 25...	1400	5300	108	111	7.2	7.4	24.0	29.0	7.2	87
JUN 23...	1355	6000	109	110	7.4	7.6	26.5	29.0	7.1	90
JUL 19...	1335	2210	103	119	7.5	7.6	29.0	33.5	7.0	92
AUG 16...	1420	6620	127	130	7.6	7.7	29.0	31.0	7.1	93
SEP 28...	1400	3100	118	117	7.5	7.6	23.0	25.0	8.1	95

DATE	COLOR (PLAT- INUM- COSALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (CLW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COCLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINEITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 19...	40	3	9	.4	700	31	<1	.33	.080	.30	.090	--
NOV 16...	40	27	14	1.1	430	32	50	.42	.110	.40	.210	--
DEC 15...	140	30	19	.6	430	17	1	.27	.070	.30	.070	5.8
JAN 25...	50	17	13	.5	930	23	<1	.59	.070	.40	.050	5.6
FEB 23...	100	28	13	.8	4300	22	9	.52	.110	.50	.050	6.4
MAR 23...	80	14	13	.5	930	22	6	.45	.060	.30	.100	5.4
APR 20...	110	23	17	1.5	140	26	10	.35	.100	.60	.080	6.4
MAY 25...	80	16	11	1.6	490	33	5	.55	.160	.40	.070	4.1
JUN 23...	30	11	6	1.0	1200	36	13	.52	.080	.40	.060	2.5
JUL 19...	20	3	--	.5	330	40	<1	.39	.060	--	.060	3.4
AUG 16...	25	5	--	.5	170	37	1	.34	.120	--	.100	3.0
SEP 28...	30	5	--	.8	110	28	<1	.32	.140	--	.140	5.4

02352790 FLINT RIVER NEAR PUTNEY, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

02353000 FLINT RIVER AT NEWTON, GA.

(National stream-quality accounting network station)

LOCATION.--Lat 31°18'34", long 84°20'06", Baker-Mitchell County line, Hydrologic Unit 03130008, on downstream side of pier of bridge on State Highway 37 at Newton, 1 mi downstream from Coolewahee Creek, and at mile 69.5.
DRAINAGE AREA.--5,740 mi², 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, National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Nov. 12, 1956, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow regulated by powerplants at Flint River Reservoir since 1921, capacity, 7,500 acre-ft; and at Warwick Reservoir since 1930, capacity, about 35,000 acre-ft. Normal operation of powerplants does not materially affect figures of monthly runoff.

AVERAGE DISCHARGE.--39 years, 6,997 ft³/s, 16.55 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 66,600 ft³/s Mar. 9, 1966, gage height, 34.9 ft; minimum discharge, 790 ft³/s regulated Oct. 20, Nov. 10, 1940.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1893, 41.3 ft Jan. 21, 1925, from floodmarks; discharge, 94,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 20,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 18	0600	28900	21.05	Apr. 3	0700	23100	18.23
Mar. 10	1900	28300	20.76	Apr. 16	1800	*30700	21.90

Minimum discharge, 1,400 ft³/s Sept. 4, gage height, 3.97 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3730	1910	4090	12700	9980	14000	20800	9080	4990	5590	1600	1900
2	3380	2390	5210	16400	11000	14000	22300	7240	4140	6270	1730	2030
3	3390	2520	6190	17400	11700	13000	22900	7900	3700	5570	2170	1550
4	3100	3100	8370	16600	12900	13000	21700	7160	4280	4680	2660	1420
5	2930	4370	6630	15800	14700	13200	16700	8480	3330	4290	2760	1890
6	2870	2760	6750	14500	15700	15300	14800	6400	2740	5120	2460	2110
7	3270	3510	6810	15600	18400	21100	12900	7600	4690	4100	2770	2340
8	3030	3390	7130	17200	17100	23700	12000	7520	7240	4310	3560	3340
9	3220	3160	7470	17600	15600	26600	12200	5870	6140	4110	4610	3690
10	3430	3090	8020	16000	16100	28000	15100	6480	6250	3470	4400	3190
11	2910	2970	9230	11300	13800	27100	16700	6420	6440	2870	3480	2760
12	2670	2820	9900	9120	12400	25500	18200	6350	6290	3000	3580	2360
13	3030	2230	9610	8000	11400	24100	20100	5580	5350	2870	3210	2320
14	2940	2900	9550	7360	14500	21400	23700	5670	5140	2900	2480	3380
15	4170	3030	9660	7760	21000	16900	27600	5860	4870	2840	2260	4910
16	4640	3120	9390	7270	25400	13000	30200	5950	3990	2730	2130	3510
17	2730	3390	12600	6240	28000	12500	29600	6770	2800	2250	2580	4050
18	4550	3610	14200	6670	28400	14600	23300	6550	2530	1910	2690	3020
19	4500	3390	14600	6830	25600	15900	16700	5710	3220	2420	2370	2560
20	3660	4340	13400	6510	22000	16400	13000	6570	3330	2860	3090	2580
21	3630	4080	10800	7440	16100	16200	11600	6330	3450	3340	2240	3360
22	3370	4070	8840	8430	13400	15300	11200	6170	4040	3170	2050	3640
23	3140	4360	6650	7440	12400	14100	10700	5330	5450	2810	2260	2670
24	2610	4200	6790	11000	12300	14400	12000	5670	6550	2770	3090	3120
25	2710	3820	5440	11400	13800	15300	10100	6110	8870	2240	2600	3050
26	2660	3330	6390	11100	13900	16300	11200	5120	6120	2680	2510	3700
27	2210	3350	4540	11000	14800	15500	11400	4400	6950	3530	1980	3010
28	2470	3350	5270	11200	14900	17900	12000	4570	6180	2460	1690	3140
29	2060	3120	7970	10300	---	19800	11900	4320	6190	2290	1460	2940
30	2430	3410	11300	8890	---	20700	19300	4080	5070	2200	1540	2720
31	2300	---	10900	8360	---	20300	---	3850	---	1670	1840	---
TOTAL	97840	100100	262440	344420	457280	555600	502900	191110	150330	103320	80050	86260
MEAN	3156	3337	8466	11110	16330	17920	16760	6165	5011	3333	2582	2875
MAX	4640	4870	14600	17600	28400	28000	30200	9080	8870	6270	4810	4910
MIN	2060	1910	4090	6240	9980	12500	10100	3850	2530	1670	1460	1420
CF5M	.55	.53	1.48	1.94	2.35	3.12	2.92	1.07	.87	.58	.45	.50
IN.	.63	.65	1.70	2.23	2.96	3.60	3.26	1.24	.97	.67	.52	.56

CAL YR 1982	TOTAL	2422120	MEAN	6636	MAX	23200	MIN	1910	CF5M	1.16	IN	15.70
WTR YR 1983	TOTAL	2931650	MEAN	8032	MAX	30200	MIN	1420	CF5M	1.40	IN	19.00

APALACHICOLA RIVER BASIN

02353000 FLINT RIVER AT NEWTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to June 1979, May 1981 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 19...	0825	4640	115	114	7.4	7.4	21.5	7.5	85
JAN 26...	0930	11400	90	88	7.6	7.5	7.0	12.0	99
MAR 23...	0915	14400	92	92	7.5	7.2	14.0	8.9	87
MAY 11...	0830	6370	120	123	7.6	7.4	21.0	7.4	83
JUL 19...	0830	2320	165	170	8.0	7.5	28.0	7.0	90
AUG 25...	0830	2680	140	135	7.0	7.1	25.5	6.1	75

DATE	TUR- BID- ITY (NTU)	COLI- FORM, FECAL, 0.7 UM-MF (CCLS./ 100 ML)	STREP- TOCOC- CI, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
OCT 19...	6.1	80	150	30	0	10	1.2	11	43	.9	1.1
JAN 26...	12	210	110	29	4	9.8	1.0	6.7	32	.6	1.4
MAR 23...	17	210	300	34	2	12	1.0	4.9	23	.4	1.1
MAY 11...	8.0	280	63	47	2	17	1.0	5.4	20	.4	1.1
JUL 19...	1.3	150	93	19	0	5.9	1.1	5.9	38	.6	1.0
AUG 25...	3.4	340	73	42	0	15	1.2	10	33	.7	1.2

DATE	ALKA- LINITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)
OCT 19...	31	2.4	12	7.5	.10	8.9	90	71	1130	.12
JAN 26...	25	1.2	11	6.4	<.10	9.2	69	61	2120	.09
MAR 23...	32	2.0	12	5.0	<.10	6.6	69	62	2630	.09
MAY 11...	45	2.2	3.5	5.0	<.10	8.9	80	75	1380	.11
JUL 19...	74	1.4	5.4	5.6	.10	7.4	82	77	514	.11
AUG 25...	43	8.3	10	8.7	.10	7.3	87	80	630	.12

02353000 FLINT RIVER AT NEWTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)
OCT 19...	.35	.090	.20	.070	--	.050
JAN 26...	.63	.060	.20	.180	.030	.030
MAR 23...	.46	.050	.50	.060	.020	.020
MAY 11...	.68	.060	.30	.110	.070	.050
JUL 19...	.71	.020	.30	.070	.060	.040
AUG 25...	.31	.040	.80	.070	.040	.020

DATE	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC DIS- SOLVED (UG/L AS AS)	BARIUM, DIS- SOLVED (UG/L AS BA)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
OCT 19...	60	1	26	<1	<1	--	<3	4	470	6
JAN 26...	<10	<1	24	<1	<1	2	<3	1	330	5
MAY 11...	30	1	28	<1	<1	3	<3	3	580	8
AUG 25...	50	2	33	<1	<1	<1	<3	3	160	1

DATE	LITHIUM DIS- SOLVED (UG/L AS LI)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY DIS- SOLVED (UG/L AS HG)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO)	NICKEL, DIS- SOLVED (UG/L AS NI)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, DIS- SOLVED (UG/L AS AG)	STRON- TIUM, DIS- SOLVED (UG/L AS SR)	VANA- DIUM, DIS- SOLVED (UG/L AS V)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 19...	<4	5	<.1	<10	<1	<1	<1	27	<6.0	10
JAN 26...	<4	17	.1	<10	1	<1	<1	21	<6.0	5
MAY 11...	<4	16	<.1	<10	4	<1	<1	27	<6.0	9
AUG 25...	<4	4	<.1	<10	1	<1	<1	31	<6.0	6

02353000 FLINT RIVER AT NEWTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT					
19...	0830	4640	21.5	12	150
22...	1400	3610	20.5	10	97
22...	1405	3610	20.5	10	97
NOV					
22...	1340	4090	17.5	11	121
22...	1345	4090	17.5	11	121
JAN					
26...	0935	11400	7.0	14	431
31...	1435	8910	11.5	9	217
31...	1440	8910	11.5	9	217
FEB					
14...	1220	14300	9.0	23	888
15...	1420	21400	9.0	33	1910
15...	1425	21400	9.0	28	1620
16...	1230	25500	9.0	41	2820
18...	0915	28600	9.5	23	1780
20...	0930	22700	9.5	41	2510
20...	0935	22700	9.5	25	1530
21...	1500	14800	9.5	16	639
21...	1505	14800	9.5	20	799
MAR					
09...	1245	26800	15.5	42	3040
09...	1250	26800	15.5	49	3550
23...	0920	14400	14.0	16	622
APR					
11...	1225	16500	13.0	17	757
11...	1230	16500	13.0	16	713
13...	1030	19900	18.0	17	913
14...	0950	23300	18.0	27	1700
14...	0955	23300	18.0	28	1760
15...	0940	27300	18.0	41	3020
15...	0945	27300	18.0	35	2580
17...	1430	29500	17.0	33	2630
17...	1435	29500	17.0	31	2470
19...	1410	16200	18.0	18	787
19...	1415	16200	18.0	62	2710
20...	1125	13200	16.0	19	677
20...	1130	13200	16.0	16	570
MAY					
11...	0835	6370	21.0	14	241
13...	1215	5530	21.5	15	224
13...	1220	5530	21.5	9	134
JUN					
24...	1010	5630	26.0	12	182
24...	1015	5630	26.0	13	198
AUG					
22...	1450	2050	27.5	4	22
22...	1455	2050	27.5	5	28
25...	0835	2680	25.5	7	51

02353000 FLINT RIVER AT NEWTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SED. SUSP. SIEVE DIAM.	SED. SUSP. SIEVE DIAM.	SED. SUSP. SIEVE DIAM.	SED. SUSP. SIEVE DIAM.	SED. SUSP. SIEVE DIAM.	SED. SUSP. SIEVE DIAM.	SED. SUSP. SIEVE DIAM.
			% FINER THAN .062 MM	% FINER THAN .125 MM	% FINER THAN .250 MM	% FINER THAN .500 MM	% FINER THAN 1.00 MM	% FINER THAN 2.00 MM	% FINER THAN 2.00 MM
OCT									
19...	0830	4440	85	--	--	--	--	--	--
JAN									
26...	0935	11400	72	--	--	--	--	--	--
FEB									
14...	1220	14300	78	--	--	--	--	--	--
14...	1225	14300	66	71	78	92	93	100	100
16...	1230	25500	72	--	--	--	--	--	--
16...	1235	25500	37	40	44	58	78	100	100
18...	0915	28600	77	--	--	--	--	--	--
18...	0920	28600	43	46	52	72	92	100	100
21...	1505	14800	79	--	--	--	--	--	--
MAR									
23...	0920	14400	71	--	--	--	--	--	--
APR									
13...	1030	19900	100	--	--	--	--	--	--
13...	1035	19900	82	86	94	100	--	--	--
19...	1415	16200	77	--	--	--	--	--	--
MAY									
11...	0835	6370	100	--	--	--	--	--	--
AUG									
25...	0835	2680	87	--	--	--	--	--	--

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.
			% FINER THAN .062 MM	% FINER THAN .125 MM	% FINER THAN .250 MM	% FINER THAN .500 MM	% FINER THAN 1.00 MM	% FINER THAN 2.00 MM	% FINER THAN 4.00 MM	% FINER THAN 8.00 MM	% FINER THAN 16.0 MM
NOV											
22...	1445	4070	<1	1	4	6	42	84	88	94	100
22...	1446	4070	--	<1	1	5	22	69	90	98	100
22...	1447	4070	<1	<1	1	33	75	93	96	99	100
22...	1448	4070	<1	<1	1	4	27	74	92	99	100
22...	1449	4070	<1	<1	1	4	22	75	96	100	--
FEB											
18...	1005	28600	--	--	<1	2	36	92	99	100	--
18...	1006	28600	--	--	<1	8	71	99	99	100	--
18...	1007	28600	--	--	<1	11	60	95	99	100	--
18...	1008	28600	--	<1	1	11	78	99	100	--	--

APALACHICOLA RIVER BASIN

02353500 ICHAWAYNOCHAWAY CREEK AT MILFORD, GA.

LOCATION.--Lat 31°22'58", long 84°32'52", Baker County, Hydrologic Unit 03130009, on downstream end of left bank pier of bridge on State Highway 216 at Milford, 2.2 mi upstream from Alligator Creek, and 5.5 mi upstream from Chickasawhatchee Creek.

DRAINAGE AREA.--620 mi², 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, National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Aug. 29, 1905, to Dec. 31, 1907, nonrecording gage at several sites within 450 ft of present site at various datums. Oct. 1, 1939, to Nov. 10, 1941, nonrecording gage at site 100 ft downstream at present datum.

REMARKS.--Records good. Discharges during growing season affected by undetermined amount of irrigation withdrawal. Moderate diurnal fluctuation at low flow.

AVERAGE DISCHARGE.--46 years, 794 ft³/s, 17.39 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,900 ft³/s Jan. 27, 1978, gage height, 15.08 ft; minimum, 49 ft³/s July 27, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1916 reached a stage of 17.2 ft, from information by local resident, discharge, 15,500 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 16	1300	5060	8.78	Mar. 29	1200	3440	6.67
Mar. 9	1100	*5500	9.28				

Minimum discharge, 188 ft³/s Sept. 1, gage height, 0.85 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	270	259	641	1960	1100	1390	2000	825	422	1420	297	222
2	265	264	688	2240	1520	1540	1700	782	408	1260	445	366
3	257	272	675	2380	2050	1670	1540	755	403	1020	624	503
4	244	322	674	2390	2740	1620	1440	799	395	857	753	561
5	242	487	714	2230	2930	1440	1340	822	389	713	695	597
6	252	674	1010	2060	2580	1650	1230	797	416	653	538	608
7	259	801	1490	1760	2010	2100	1170	758	562	635	527	498
8	269	711	2050	1450	1570	3840	1220	712	574	635	569	401
9	322	622	1960	1240	1360	5160	1520	681	1050	579	650	348
10	414	469	1540	1110	1230	3750	1820	656	1060	512	620	310
11	406	401	1130	1020	1210	2190	1990	665	966	459	590	279
12	363	375	1050	964	1230	1700	2000	673	795	413	489	346
13	335	369	1180	907	1300	1440	1750	695	581	378	458	559
14	326	407	1270	857	2070	1300	1460	668	475	354	358	1050
15	342	463	1300	821	3140	1220	1410	633	426	338	339	1390
16	343	449	1270	790	4820	1220	1450	683	400	359	316	2190
17	325	406	1300	766	4660	1340	1440	921	366	383	281	2030
18	306	385	1300	744	3550	1570	1350	1000	356	354	243	1190
19	289	440	1210	724	2540	1840	1230	1150	349	364	228	675
20	277	556	1130	734	2050	2060	1120	992	375	322	217	583
21	273	637	1000	924	1710	2040	1020	773	582	307	200	633
22	271	628	830	1170	1500	1830	946	710	1120	283	202	695
23	273	550	732	1320	1420	1640	1100	696	1210	327	205	689
24	271	478	692	1350	1530	1480	1590	685	1380	334	210	604
25	264	436	668	1280	1610	1500	1810	628	1430	297	225	534
26	263	418	653	1180	1570	1550	1770	576	1380	268	215	476
27	261	405	641	1120	1450	1850	1490	532	1620	259	199	434
28	260	390	640	1160	1320	2500	1240	483	1400	268	203	412
29	257	418	856	1130	---	3330	1040	457	1410	304	205	385
30	258	531	1290	1110	---	2990	910	445	1530	272	201	373
31	258	---	1620	1090	---	2470	---	433	---	263	196	---
TOTAL	9015	14023	33204	39981	57730	62820	43096	22085	24130	15190	11498	19941
MEAN	291	467	1071	1290	2062	2026	1437	712	804	490	371	665
MAX	414	801	2050	2390	4820	5160	2000	1150	1620	1420	753	2190
MIN	242	259	640	724	1100	1220	910	433	349	259	196	222
CFSM	.47	.75	1.73	2.08	3.33	3.27	2.32	1.15	1.30	.79	.60	1.07
IN.	.54	.84	1.99	2.40	3.46	3.77	2.59	1.33	1.45	.91	.69	1.20

CAL YR 1982	TOTAL	290351	MEAN	795	MAX	6810	MIN	180	CFSM	1.28	IN	17.42
WTR YR 1983	TOTAL	352713	MEAN	906	MAX	5160	MIN	196	CFSM	1.56	IN	21.16

APALACHICOLA RIVER BASIN

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02353500 ICHAWAYNOCHAWAY CREEK AT MILFORD, GA.--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHCS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)	OXYGEN, DIS- SOLVED (MG/L)			
APR 05...	1330	1360	70	70	7.3	7.4	16.0	7.9	31			
JUL 19...	1030	388	80	84	7.5	7.4	26.0	6.6	82			

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (NTU)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	PCTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)
APR 05...	65	20	29	2	10	1.0	2.2	14	.2	.3	27	2.6
JUL 19...	50	6.1	37	4	13	1.0	2.8	14	.2	.7	33	2.0

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)
APR 05...	7.2	4.1	<.10	4.1	54	46	198	.07	.40	.37	<.010	<.010
JUL 19...	3.6	4.4	<.10	6.9	56	53	58.7	.08	.70	.68	.030	.020

DATE	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUM- INIUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)
APR 05...	--	--	.40	.40	.80	.77	.030	<.010	6.1	30	1	1
JUL 19...	.37	.28	.40	.30	1.1	.98	.040	.030	4.8	10	1	1

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CP)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, DIS- SOLVED (UG/L AS ZN)
APR 05...	1	<10	1	560	9	4	49	.4	<.1	<1	<3
JUL 19...	1	<10	3	540	16	6	25	.4	.3	<1	5

APALACHICOLA RIVER BASIN

02356000 FLINT RIVER AT BAINBRIDGE, GA.

LOCATION.--Lat 30°54'41", long 84°34'48", Decatur County, Hydrologic Unit 03130008, on downstream side of highway bridge on Business Route 27, 0.2 mi downstream from Seaboard Coast Line Railroad bridge, at mile 29.0, and 29.2 mi upstream from Jim Woodruff Dam.

DRAINAGE AREA.--7,570 mi², approximately.

PERIOD OF RECORD.--Discharge: October 1907 to December 1913, October 1928 to September 1971. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at same site since 1904 are contained in reports of National Weather Service.

Chemical analyses: February 1968 to September 1973.

Annual peaks: Water years 1972-76, 1978-83.

Continuous gage-height record: August 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is 58.06 ft, National Geodetic Vertical Datum of 1929. Prior to Dec. 31, 1913, nonrecording gage at same site at datum 0.3 ft higher. Oct. 1, 1928, to Jan. 14, 1929, nonrecording gage at present site and datum. Auxiliary water-stage recorder at site 6.4 mi upstream Jan. 15, 1957, to September 1971.

REMARKS.--Flow regulated by powerplants at Flint River Reservoir since 1921, capacity, 7,500 acre-ft; and at Warwick Reservoir since 1930, capacity, about 35,000 acre-ft. Normal operation of powerplants does not materially affect figures of monthly runoff.

AVERAGE DISCHARGE.--49 years (water years 1908-13, 1929-71), 8,740 ft³/s, 15.68 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,200 ft³/s Mar. 21, 1929, gage height, 37.73 ft; minimum daily discharge, 1,340 ft³/s Sept. 25, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1893, 40.9 ft, present datum, Jan. 24, 1925, discharge, 101,000 ft³/s, from rating curve extended above 70,000 ft³/s on basis of slope-conveyance studies.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 32,900 ft³/s Feb. 18, gage height, 24.62 ft.

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.05	18.54	19.00	20.35	20.18	21.12	22.75	20.62	19.36	19.96	18.29	18.72
2	19.14	18.59	19.29	20.87	20.74	21.13	22.98	20.26	19.50	20.07	18.48	19.04
3	18.89	18.76	19.59	21.31	20.93	21.15	23.13	20.17	19.56	20.06	18.71	19.14
4	18.54	19.04	19.80	21.46	20.94	21.07	23.06	20.18	19.63	19.40	18.95	18.91
5	18.79	19.29	19.35	21.53	21.24	21.12	22.56	20.19	19.30	19.32	19.19	18.71
6	18.98	19.31	19.88	21.36	21.57	21.33	21.73	20.11	18.86	19.53	19.17	18.82
7	19.12	19.03	19.84	21.31	21.71	22.16	21.18	20.05	19.11	19.67	18.97	18.91
8	19.25	18.90	19.86	21.59	22.02	23.01	20.99	19.98	19.55	19.65	18.86	19.02
9	19.30	18.99	19.76	21.65	21.48	23.69	20.95	19.71	19.79	19.73	19.23	19.26
10	19.07	19.12	19.95	21.37	21.33	24.31	21.31	19.68	19.88	19.42	19.50	19.34
11	18.32	19.19	20.03	20.87	21.23	24.45	22.01	19.88	19.99	19.06	19.58	19.10
12	18.90	19.30	20.13	20.31	21.01	24.05	22.18	19.55	19.74	19.10	19.74	18.90
13	19.04	19.24	20.06	19.94	20.66	23.57	22.34	19.76	19.45	19.39	19.69	19.20
14	19.18	18.90	20.05	19.94	21.04	23.09	22.85	19.84	19.43	19.60	19.31	19.41
15	19.28	18.66	20.08	20.14	21.95	22.47	23.53	19.66	19.63	19.62	18.98	19.61
16	19.44	18.65	20.21	19.90	23.05	21.46	24.11	19.49	19.66	19.67	19.16	19.71
17	19.05	18.72	20.36	19.73	23.90	20.94	24.45	19.71	19.71	19.26	19.31	19.79
18	18.76	18.75	20.68	19.76	24.45	21.18	24.16	19.99	19.68	18.86	19.39	19.47
19	18.96	18.76	20.65	19.73	24.42	21.61	22.73	19.84	19.26	18.86	19.44	19.23
20	19.05	18.87	20.45	19.58	23.74	21.73	21.59	19.99	18.87	18.96	19.41	19.32
21	19.14	18.70	20.37	19.80	22.66	21.94	20.87	20.00	18.93	19.06	19.04	19.44
22	19.20	18.56	20.11	20.03	21.52	21.81	20.83	19.96	19.22	19.19	18.69	19.46
23	19.15	18.71	19.64	20.15	21.18	21.35	20.74	19.98	19.52	19.28	18.73	19.40
24	18.37	18.91	19.83	20.40	21.08	21.29	21.03	19.84	19.84	18.98	18.87	19.31
25	18.60	19.07	19.81	20.53	21.12	21.45	20.37	19.73	20.29	18.67	19.05	18.96
26	18.64	19.06	19.61	20.49	21.23	21.71	20.71	19.76	20.15	18.68	19.23	18.75
27	18.70	19.05	19.35	20.39	21.09	21.73	20.85	19.69	19.97	18.80	19.34	18.85
28	18.82	18.81	19.59	20.55	21.07	21.99	20.57	19.75	20.03	18.86	18.94	18.94
29	19.04	18.62	19.79	20.54	---	22.54	20.83	19.36	20.22	18.89	18.55	19.03
30	19.12	18.70	20.35	20.22	---	22.69	20.79	19.05	20.07	18.91	18.55	19.12
31	18.81	---	20.34	19.91	---	22.84	---	19.08	---	18.56	18.61	---
MEAN	18.99	18.89	19.95	20.51	21.73	22.14	21.96	19.84	19.61	19.26	19.06	19.16
MAX	19.44	19.31	20.68	21.65	24.45	24.45	24.45	20.62	20.29	20.07	19.74	19.79
MIN	18.60	18.54	19.00	19.58	20.18	20.94	20.57	19.05	18.86	18.56	18.29	18.71
CAL YR 1982	MEAN 19.64		MAX 22.57	MIN 18.04								
WTR YR 1983	MEAN 20.03		MAX 24.45	MIN 18.29								

APALACHICOLA RIVER BASIN

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02356015 FLINT RIVER BELOW BAINBRIDGE, GA.

LOCATION.--Lat 30°53'34", long 84°36'38", Decatur County, Hydrologic Unit 03130008, at Bainbridge, 0.8 mi downstream from State Docks, and at mile 26.5.

DRAINAGE AREA.--7,570 mi², approximately.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 19...	1115	145	148	--	7.9	21.5	24.5	7.7	88
NOV 16...	1145	--	150	7.7	7.8	16.0	17.5	8.4	85
DEC 15...	1240	88	91	7.3	7.5	13.0	22.5	9.2	88
JAN 25...	1105	92	95	7.5	7.5	7.5	8.0	11.6	97
FEB 23...	1120	100	100	7.4	7.5	13.5	17.0	9.2	89
MAR 23...	1200	104	108	7.4	7.6	14.5	16.0	9.0	89
APR 20...	1135	107	104	7.1	7.5	16.0	13.5	8.2	84
MAY 25...	0955	149	152	--	7.6	23.0	27.0	6.5	78
JUN 23...	1035	149	144	7.5	7.8	25.5	27.5	6.9	85
JUL 19...	1035	163	172	8.0	7.9	28.0	30.5	6.9	89
AUG 16...	1100	151	156	8.2	8.1	28.5	31.0	8.4	109
SEP 28...	1045	144	146	7.8	7.9	22.5	28.0	9.2	107

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 19...	30	8	--	.4	70	55	--	.69	.110	--	.060	--
NOV 16...	20	5	--	.4	750	54	--	.37	.260	--	.060	--
DEC 15...	120	28	--	.5	680	24	--	.37	.120	--	.070	5.2
JAN 25...	60	13	--	.8	15000	26	--	.60	.090	--	.050	9.6
FEB 23...	100	25	--	1.0	90	35	--	.75	.330	--	.060	6.8
MAR 23...	70	15	--	.6	230	34	--	.82	.330	--	.120	5.9
APR 20...	95	18	--	1.4	7900	40	--	.58	.100	--	.060	6.4
MAY 25...	30	12	--	1.2	330	56	--	.94	.290	--	.060	3.2
JUN 23...	30	15	--	1.0	15000	54	--	1.3	.940	--	.100	2.2
JUL 19...	10	7	4	1.0	170	70	<1	.74	.180	.60	.030	3.2
AUG 16...	20	9	12	1.8	70	57	18	.54	.050	.30	.040	3.3
SEP 28...	20	5	11	1.0	110	50	<1	.64	.060	.30	.130	3.8

APALACHICOLA RIVER BASIN

02357000 SPRING CREEK NEAR IRON CITY, GA.

LOCATION.--Lat 31°02'23", long 84°44'18", Decatur County, Hydrologic Unit 03130010, on right bank 25 ft downstream from county bridge, 1.5 mi downstream from Aycock Creek, 1.5 mi upstream from Dry Creek, 5.0 mi north of Brinson, and 5.5 mi northeast of Iron City.

DRAINAGE AREA.--485 mi², approximately.

PERIOD OF RECORD.--October 1920 to June 1921, June 1937 to April 1971, water years 1972-76 (annual maximum), December 1976 to September 1978, June 1982 to current year.

GAGE.--Water-stage recorder. Datum of gage is 85.7 ft, National Geodetic Vertical Datum of 1929. Oct. 21, 1920, to June 30, 1921, nonrecording gage at site 125 ft upstream at different datum, June 11, 1937, to Oct. 17, 1952, nonrecording gage at site 125 ft upstream at present datum, Oct. 18, 1952, to April 1971, recording gage at same site and datum as present, May 1971 to Dec. 1976, nonrecording gage at same site and datum as present.

REMARKS.--Records good except those of no gage-height record Aug. 18 to Sept. 15, which are poor. Discharges during growing season affected by undetermined amount of irrigation withdrawal.

AVERAGE DISCHARGE.--35 years (1937-70, 1978, 1983), 494 ft³/s, 13.83 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,700 ft³/s Apr. 12, 1975, gage height, 19.43 ft; maximum gage height, 19.9 ft Apr. 2, 1948; minimum discharge, 9.1 ft³/s Oct. 30 to Nov. 2, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of 5.3 ft³/s was measured on July 13, 1981. The effect of irrigation is unknown on this measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan. 4	1100	3220	13.44	Mar. 30	0700	3940	14.23
Feb. 5	1700	3590	13.59	Apr. 11	2400	2750	12.92
Feb. 16	2300	*7840	16.27	Apr. 27	0200	2470	12.47
Mar. 9	1600	4100	13.99				

Minimum daily discharge, 94 ft³/s Aug. 23, 29, Sept. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	203	112	147	1740	1470	1270	2210	981	267	961	108	94
2	195	111	175	2260	1670	1260	1760	869	250	1260	195	118
3	188	117	181	2830	2120	1270	1480	795	230	1120	234	160
4	192	142	187	3200	2830	1340	1310	755	218	858	239	230
5	178	158	223	3110	3500	1400	1170	724	217	656	294	280
6	174	189	327	2730	3300	1600	1070	737	217	540	314	300
7	187	208	367	2250	2510	2010	1010	722	262	482	290	310
8	187	215	521	1900	1990	2630	1040	670	387	442	243	280
9	195	216	753	1630	1700	3920	1320	602	518	402	214	230
10	197	193	946	1450	1510	3240	1890	550	566	365	197	185
11	193	169	372	1310	1390	2170	2580	527	525	329	215	170
12	184	155	857	1190	1290	1620	2690	527	455	299	199	150
13	182	151	334	1100	1280	1300	2280	517	368	273	180	175
14	194	153	837	1030	2250	1140	1870	482	316	250	175	240
15	185	157	1010	967	4810	1040	1900	449	279	233	166	350
16	179	156	1070	907	7240	996	1900	449	250	215	147	461
17	171	150	1010	854	7240	1010	1820	454	227	201	132	746
18	162	146	947	812	5030	1080	1730	452	213	190	124	941
19	154	142	929	772	3470	1170	1590	431	205	180	118	757
20	149	139	959	772	2590	1270	1360	436	201	172	110	556
21	145	138	921	863	2160	1310	1180	454	229	160	104	467
22	139	139	805	981	1880	1320	1060	410	367	149	96	420
23	134	142	709	1090	1710	1320	1140	380	450	139	94	432
24	132	142	650	1200	1600	1290	1560	364	534	130	97	480
25	130	140	604	1250	1500	1250	2010	346	614	124	101	472
26	127	138	568	1160	1460	1190	2310	329	702	120	106	425
27	124	137	544	1140	1410	1300	2330	302	726	116	104	347
28	120	135	534	1400	1310	1260	1930	231	632	109	100	288
29	117	136	723	1560	---	3140	1420	260	590	101	94	253
30	115	136	996	1610	---	3850	1140	250	645	97	98	231
31	113	---	1290	1560	---	3100	---	263	---	98	96	---
TOTAL	5035	4562	21546	46628	72220	53766	50110	15768	11660	10771	4984	10548
MEAN	162	152	695	1504	2579	1734	1670	509	389	347	161	352
MAX	203	216	1290	3200	7240	3920	2690	981	726	1260	314	941
MIN	113	111	147	772	1280	996	1010	250	201	97	94	94
CFSM	.33	.31	1.43	3.10	5.32	3.53	3.44	1.05	.80	.72	.33	.73
IN.	.39	.35	1.65	3.53	5.54	4.12	3.84	1.21	.89	.83	.38	.81

WTR YR 1983 TOTAL 307598 MEAN 843 MAX 7240 MIN 94 CFSM 1.74 IN 23.59

LAKES IN APALACHICOLA RIVER BASIN

02334400 LAKE SIDNEY LANIER.--Lat 34°04'30", long 84°04'20", Forsyth County, Hydrologic Unit 03130001, at forebay of dam on Chattahoochee River, 2.5 mi upstream from bridge on State Highway 20, 4.5 mi northwest of Buford, Ga., and at mile 348.3. DRAINAGE AREA, 1,040 mi², approximately. PERIOD OF RECORD, January 1956 to current year. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army 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 between elevations 1,035 and 1,085 ft. Dead storage, 868,000 acre-ft. Lake is used for flood control and power. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 2,205,200 acre-ft Apr. 14, 1964, elevation, 1,077.20 ft; minimum, after beginning operation, 1,329,300 acre-ft Dec. 23, 24, 1981, elevation, 1,052.66 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 2,043,600 acre-ft April 11, elevation, 1,073.25 ft; minimum, 1,740,300 acre-ft Sept. 30, elevation, 1,065.20 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	1067.54	1825200	-	-
Oct. 31.....	1067.91	1838900	+13700	+223
Nov. 30.....	1068.40	1857000	+18100	+304
Dec. 31.....	1070.38	1931400	+74400	+1210
CAL YR 1982	-	-	+576300	+796
Jan. 31.....	1070.24	1926100	-5300	-86
Feb. 28.....	1071.19	1962600	+36500	+657
Mar. 31.....	1071.71	1982900	+20300	+330
Apr. 30.....	1072.22	2002800	+19900	+334
May 31.....	1072.52	2014500	+11700	+190
June 30.....	1071.81	1986800	-27700	-466
July 31.....	1069.75	1907500	-79300	-1290
Aug. 31.....	1066.07	1771600	-135900	-2210
Sept. 30.....	1065.20	1740300	-31300	-526
WTR YR 1983	-	-	-84900	-117

02339400 WEST POINT LAKE.--Lat 32°55'05", long 85°11'17", Troup County, Hydrologic Unit 03130002, at forebay of dam on Chattahoochee River, 2.3 mi upstream from Oseligee Creek, 3.0 mi north of West Point, Ga., 3.2 mi upstream from bridge on U.S. Highway 29, and at mile 201.4. DRAINAGE AREA, 3,440 mi², approximately. PERIOD OF RECORD, October 1974 to current year. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

Lake is formed by concrete gravity dam with earth dikes at either side. Spillway, crest elevation, 597 ft is equipped with six taintor gates 50 ft wide by 41 ft high. Storage began Oct. 16, 1974, and lake reached maximum power pool, 635 ft on June 10, 1975. Total capacity at elevation, 641 ft; maximum flood control pool, 774,800 acre-ft. Capacity at elevation, 635 ft, maximum power pool, 604,500 acre-ft. Dead storage below elevation 620 ft, minimum power pool, 298,400 acre-ft. Lake is used for flood control and power. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 690,700 acre-ft April 16, 1979, elevation, 638.17 ft; minimum, since first filling, 313,900 acre-ft, Nov. 24, 1981, elevation, 620.98 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 640,000 acre-ft May 23, elevation, 636.34 ft; minimum, 411,800 acre-ft Jan. 21, elevation, 626.48 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	629.80	480500	-	-
Oct. 31.....	632.84	550600	+70100	+1140
Nov. 30.....	630.80	502900	-47700	-802
Dec. 31.....	629.10	465400	-37500	-610
CAL YR 1982	-	-	+23100	+32
Jan. 31.....	627.80	438200	-27200	-442
Feb. 28.....	630.50	496100	+57900	+1043
Mar. 31.....	633.10	556900	+60800	+989
Apr. 30.....	632.30	537700	-19200	-323
May 31.....	635.50	617700	+80000	+1301
June 30.....	635.00	604500	-13200	-222
July 31.....	633.30	561800	-42700	-694
Aug. 31.....	629.20	467600	-94200	-1532
Sept. 30.....	631.70	523500	+55900	+939
WTR YR 1983	-	-	+43000	+59

APALACHICOLA RIVER BASIN

LAKES IN APALACHICOLA RIVER BASIN--Continued

02341000 LAKE HARDING.--Lat 32°39'46", long 85°05'27", Harris County, Hydrologic Unit 03130002, at forebay of dam on Chattahoochee River, 3.3 mi upstream from Mulberry Creek, 15 mi northwest of Columbus, Ga., and at mile 178.0. DRAINAGE AREA, 4,240 mi², approximately. PERIOD OF RECORD, October 1929 to current year. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Georgia Power Co.).

Reservoir is formed by concrete gravity dam with earth fill abutments. Spillway, crest elevation, 500.0 ft is equipped with 19 taintor gates 25 ft wide by 21 ft high and two trash gates 11 ft wide by 9 ft high. Storage began in 1926; water in reservoir first reached minimum pool elevation in 1926. Total capacity at elevation 521.0 ft, top of gates, is 181,000 acre-ft, of which 136,000 acre-ft 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 1982 TO SEPTEMBER 1983

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	515.4	149000	-	-
Oct. 31.....	507.9	116000	-33000	-537
Nov. 30.....	508.4	118000	+2000	+34
Dec. 31.....	508.1	116000	-2000	-33
CAL YR 1982	-	-	-52000	-72
Jan. 31.....	508.5	118000	+2000	+33
Feb. 28.....	511.1	128000	+10000	+180
Mar. 31.....	519.5	172000	+44000	+716
Apr. 30.....	520.5	178000	+6000	+101
May 31.....	520.6	179000	+1000	+16
June 30.....	520.5	178000	-1000	-17
July 31.....	520.0	175000	-3000	-49
Aug. 31.....	520.4	177000	+2000	+33
Sept. 30.....	520.7	179000	+2000	+34
WTR YR 1983	-	-	+30000	+41

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

02343240 WALTER F. GEORGE LAKE.--Lat 31°37'27", long 85°04'03", Clay County, Hydrologic Unit 03130003, at forebay of dam on Chattahoochee River, 1.6 mi upstream from bridge on State Highway 37, 1 mi north of Ft. Gaines, Ga., and at mile 75.0. DRAINAGE AREA, 7,460 mi², approximately. PERIOD OF RECORD, May 1962 to current year. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army 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, is equipped with 14 taintor gates 42 ft wide by 29 ft high. Total capacity at elevation 190.0 ft, full summer pool, 934,400 acre-ft, of which 244,400 acre-ft between elevations 190.0 and 184.0 ft, minimum pool, is controlled storage. Lake is used for navigation and power. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 993,700 acre-ft May 20, 1969, elevation, 191.28 ft; minimum, after first filling, 660,400 acre-ft Apr. 23, 1965, elevation, 183.17 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 956,100 acre-ft March 7, elevation, 190.47 ft; minimum, 787,900 acre-ft Nov. 2, elevation, 186.56 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	188.50	868300	-	-
Oct. 31.....	186.94	803100	-65200	-1060
Nov. 30.....	188.40	864300	+61200	+1029
Dec. 31.....	187.60	830500	-33800	-550
CAL YR 1982	-	-	-94900	-131
Jan. 31.....	188.30	860000	+29500	+480
Feb. 28.....	188.40	864300	+4300	+77
Mar. 31.....	189.50	912200	+47900	+779
Apr. 30.....	189.50	912200	0	0
May 31.....	189.30	903300	-8900	-145
June 30.....	189.80	925500	+22200	+373
July 31.....	188.60	872800	-52700	-857
Aug. 31.....	188.40	864300	-8500	-138
Sept. 30.....	188.60	872800	+8500	+143
WTR YR 1983	-	-	+4500	+6

LAKES IN APALACHICOLA RIVER BASIN--Continued

02357500 LAKE SEMINOLE.--Lat 30°42'33", long 84°51'45", Gadsden County, Fla., Hydrologic Unit 03130004, on right upstream lock wall of Jim Woodruff Dam on Chattahoochee River, 0.6 mi upstream from bridge on U.S. Highway 90, and 1.5 mi northwest of Chattahoochee, Fla. DRAINAGE AREA, 17,100 mi², 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 National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to July 22, 1957, nonrecording gage at same site at datum 53.96 ft 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 long and 30.5 ft high, and a side channel navigation lock 82 ft 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. Total capacity at elevation 77.0 ft, normal pool, is 367,300 acre-ft, of which 36,170 acre-ft between elevations 77.0 and 76.0 ft is used for pondage. Lake is used for navigation and power. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 433,000 acre-ft Apr. 7, 8, 1960, elevation, 78.66 ft; minimum after Feb. 4, 1957, 272,100 acre-ft Nov. 27, 1978, elevation, 74.18 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 401,900 acre-ft June 30, elevation, 77.89 ft; minimum, 342,700 acre-ft Aug. 1, elevation, 76.32 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	77.13	372200	-	-
Oct. 31.....	76.79	359700	-12500	-203
Nov. 30.....	76.92	364400	+4700	+79
Dec. 31.....	77.49	386400	+22000	+358
CAL YR 1982	-	-	-7400	-10
Jan. 31.....	77.44	384400	-2000	-33
Feb. 28.....	77.30	379000	-5400	-97
Mar. 31.....	77.38	382100	+3100	+50
Apr. 30.....	77.78	397600	+15500	+261
May 31.....	77.11	371600	-26000	-423
June 30.....	77.55	388700	+17100	+287
July 31.....	76.51	349600	-39100	-636
Aug. 31.....	76.80	360100	+10500	+171
Sept. 30.....	77.30	379000	+18900	+318
WTR YR 1983	-	-	+6800	+9

MOBILE RIVER BASIN

02380500 COOSAWATTEE RIVER NEAR ELLIJAY, GA.

LOCATION.--Lat 34°40'18", long 84°30'31", Gilmer County, Hydrologic Unit 03150102, on right bank 0.5 mi downstream from State Highway 5, 2 mi southwest of Ellijay, and 2.2 mi downstream from confluence of Cartecay and Ellijay Rivers.

DRAINAGE AREA.--236 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to December 1949, occasional low-flow measurements 1959, 1961-62. June 1963 to current year.

REVISED RECORDS.--WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,216.04 ft, National Geodetic Vertical Datum of 1929. Prior to June 10, 1940, nonrecording gage at site 0.5 mi upstream at datum 8.04 ft higher.

REMARKS.--Records good.

AVERAGE DISCHARGE.--31 years (1938-49, 1963-83), 524 ft³/s, 30.15 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,000 ft³/s Oct. 4, 1964, gage height, 17.63 ft; minimum, 101 ft³/s several days in October 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1938, 20.7 ft Mar. 19, 1951, from floodmark.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 2	0700	*3730	5.47	Apr. 5	2330	3560	5.28

Minimum discharge, 172 ft³/s Aug. 30, 31, gage height, 1.39 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1932 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	203	242	2130	544	425	555	631	631	670	500	827	200
2	200	242	1560	762	2500	528	702	608	640	580	491	321
3	196	614	909	796	1370	515	680	639	600	500	370	367
4	194	751	716	673	854	503	612	639	730	460	318	268
5	195	468	2370	606	692	509	1020	588	710	475	297	258
6	194	375	1930	574	914	1330	2100	568	760	492	287	303
7	217	340	1130	548	861	883	1290	554	700	434	299	340
8	255	319	840	527	741	943	1600	580	720	416	322	283
9	251	301	716	514	684	709	2160	553	720	403	284	263
10	277	290	644	517	682	654	1740	535	660	391	264	241
11	1050	282	972	533	747	617	1330	521	670	360	266	274
12	510	354	1560	495	672	591	1070	516	600	372	300	544
13	1440	464	993	473	626	573	952	521	550	362	268	286
14	740	356	799	460	606	554	926	507	520	357	252	260
15	460	324	774	455	581	544	1020	546	500	349	239	228
16	370	307	1370	441	568	533	875	1190	490	347	235	212
17	329	305	971	433	553	533	817	721	500	338	233	205
18	305	351	818	421	534	537	810	595	620	358	233	199
19	287	357	830	409	523	524	778	1410	700	343	222	192
20	285	343	742	411	509	542	762	1790	1050	339	215	216
21	322	329	668	527	498	778	724	1690	750	330	209	356
22	285	344	615	594	709	593	709	1470	640	314	200	303
23	277	336	583	505	992	548	778	1560	560	303	200	245
24	269	370	563	467	717	593	1020	1180	500	364	193	229
25	263	345	566	442	633	583	817	980	500	395	191	219
26	258	328	541	431	579	531	762	870	480	349	195	211
27	252	330	521	428	555	988	717	790	480	319	191	207
28	248	358	758	420	550	812	695	730	530	295	188	204
29	247	961	757	413	---	709	664	740	520	280	181	199
30	246	625	618	429	---	647	647	720	480	272	175	198
31	246	---	571	408	---	702	---	690	---	271	177	---
TOTAL	10871	11711	29540	15656	20875	20226	29408	25632	18550	11688	8322	7931
MEAN	351	390	953	505	746	652	980	827	618	377	268	264
MAX	1440	961	2370	796	2500	1330	2160	1790	1050	580	827	644
MIN	194	242	521	408	425	503	612	507	480	271	175	192
CFSM	1.49	1.65	4.04	2.14	3.16	2.76	4.15	3.50	2.62	1.60	1.14	1.12
IN.	1.71	1.85	4.66	2.47	3.29	3.19	4.64	4.04	2.92	1.84	1.31	1.25

CAL YR 1982	TOTAL	225669	MEAN 618	MAX 5050	MIN 194	CFSM 2.62	IN 35.57
WTR YR 1983	TOTAL	210410	MEAN 576	MAX 2500	MIN 175	CFSM 2.44	IN 33.17

MOBILE RIVER BASIN

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02380500 COOSAWATTEE RIVER NEAR ELLIJAY, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to March 1972, December 1977 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT 27...	0930	254	9.0	5	3.4
DEC 09...	0940	724	10.5	25	49
JAN 25...	1445	438	6.0	4	4.7
MAR 03...	0925	514	9.0	9	12
MAY 25...	0815	1000	15.0	36	97
JUL 05...	1345	449	22.5	21	25
AUG 17...	0910	234	20.5	19	12

MOBILE RIVER BASIN

02381600 FAUSETT CREEK NEAR TALKING ROCK, GA.

LOCATION.--Lat 34°34'13", long 84°28'08", Gilmer County, Hydrologic Unit 03150102, on right bank 25 ft upstream from culvert on county road, 3.6 mi upstream from mouth, and 4.5 mi northeast of Talking Rock.

DRAINAGE AREA.--9.99 mi².

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, from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--9 years, 19.7 ft³/s, 26.78 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,160 ft³/s May 29, 1973, gage height, 16.96 ft, from floodmarks; minimum daily discharge, 2.9 ft³/s Oct. 9, 1981.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 5	1130	332	3.83	Aug. 1	1215	*754	6.13
Feb. 2	0230	388	4.17				

Minimum daily discharge, 4.6 ft³/s Aug. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	7.7	90	20	19	22	25	23	19	16	89	6.0
2	5.9	7.7	37	40	125	21	25	23	18	14	15	26
3	5.9	30	24	35	40	20	25	25	18	13	13	12
4	5.9	23	19	28	30	19	31	23	24	13	12	8.5
5	5.9	14	137	25	27	23	65	22	19	13	11	8.0
6	5.9	13	53	23	47	52	81	21	20	13	10	9.6
7	7.1	12	32	22	37	30	53	21	20	12	10	9.9
8	8.2	11	24	21	32	28	95	21	19	11	9.7	15
9	7.5	11	22	20	29	25	144	20	17	11	9.7	10
10	17	10	20	21	29	23	75	19	17	11	9.2	8.1
11	22	10	56	20	28	22	49	19	16	10	8.6	8.3
12	11	20	72	19	26	21	44	19	15	10	8.6	17
13	94	16	37	19	25	21	37	19	14	9.7	7.7	12
14	18	14	28	19	25	20	36	18	14	9.5	7.5	9.5
15	12	12	35	18	24	20	39	21	14	9.4	7.3	8.0
16	9.5	12	43	18	23	19	33	44	14	9.4	7.2	7.5
17	8.3	12	31	17	22	20	32	23	16	9.2	7.0	7.3
18	7.8	14	26	17	21	20	32	20	21	9.6	6.8	7.9
19	7.4	12	27	17	21	20	30	90	22	9.4	6.5	9.3
20	7.9	12	24	18	20	26	29	53	19	9.4	6.4	10
21	8.1	12	22	22	20	26	27	39	17	9.6	6.2	14
22	7.2	12	21	19	37	22	26	34	17	8.7	5.8	9.4
23	7.2	12	20	17	35	21	35	31	16	8.4	5.5	8.5
24	7.3	14	20	16	28	26	44	27	15	14	5.5	7.9
25	7.4	12	19	16	25	24	32	24	14	11	5.5	7.6
26	7.4	12	19	16	23	27	29	23	13	9.4	5.5	7.5
27	7.4	12	19	16	23	45	27	22	14	8.6	5.4	7.3
28	7.5	14	37	15	22	33	26	21	20	8.2	4.9	7.1
29	7.6	26	27	15	---	27	25	22	16	7.9	4.8	7.1
30	7.6	20	23	15	---	25	24	22	15	7.5	4.6	7.1
31	7.6	---	21	15	---	28	---	20	---	9.1	5.0	---
TOTAL	355.4	419.4	1075	619	863	776	1275	819	513	325.0	320.9	292.4
MEAN	11.5	14.0	34.7	20.0	30.8	25.0	42.5	26.4	17.1	10.5	10.4	9.75
MAX	94	30	137	40	125	52	144	80	24	16	89	26
MIN	5.9	7.7	19	15	19	19	24	18	13	7.5	4.6	6.0
CFSM	1.15	1.40	3.47	2.00	3.08	2.50	4.25	2.64	1.71	1.05	1.04	.98
IN.	1.32	1.56	4.00	2.30	3.21	2.89	4.75	3.05	1.91	1.21	1.19	1.09
CAL YR 1982	TOTAL	7920.5	MEAN	21.7	MAX	495	MIN	5.9	CFSM	2.17	IN	29.49
WTR YR 1983	TOTAL	7653.1	MEAN	21.0	MAX	144	MIN	4.6	CFSM	2.10	IN	28.50

02382200 TALKING ROCK CREEK NEAR HINTON, GA.

LOCATION.--Lat 34°31'22", long 84°36'40", Pickens County, Hydrologic Unit 03150102, on left bank 300 ft downstream from Scaricorn Creek, and 3.3 mi northwest of Hinton.

DRAINAGE AREA.--119 mi².

PERIOD OF RECORD.--November 1973 to current year.

REVISED RECORDS.--WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 890 ft, from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--9 years, 212 ft³/s, 24.19 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,100 ft³/s Mar. 4, 1979, gage height, 14.18 ft; minimum, 23 ft³/s Sept. 30, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 28, 1973, reached a stage of 15.45 ft, from floodmarks; discharge, 18,400 ft³/s from rating curve extended above 3,100 ft³/s on basis of slope-area measurements at gage heights 8.66 and 15.45 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft³/s, revised, and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 5	1445	2700	6.12	Apr. 9	0300	2820	6.23
Feb. 2	0415	*3170	6.71				

Minimum discharge, 46 ft³/s Oct. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	73	1010	202	166	200	250	240	210	143	456	95
2	50	74	526	399	1580	190	297	234	202	137	195	244
3	49	265	294	404	492	186	270	247	202	126	135	193
4	48	301	224	308	335	190	242	250	264	123	127	113
5	50	166	1550	261	266	195	429	229	237	120	110	97
6	47	129	749	237	410	619	1120	221	242	126	102	113
7	56	115	379	221	375	335	554	214	242	111	101	141
8	79	106	269	207	315	305	1090	219	227	104	98	112
9	92	100	222	199	232	256	1840	213	201	99	93	139
10	72	95	199	197	268	237	922	209	189	96	89	102
11	225	93	549	207	273	220	590	203	176	94	85	91
12	106	130	1110	190	243	208	446	202	168	93	82	126
13	830	183	471	178	230	200	377	206	160	91	77	151
14	254	127	333	176	228	195	367	199	156	89	73	122
15	143	115	322	172	217	193	370	216	150	88	70	101
16	114	107	671	166	210	189	325	580	150	86	70	93
17	98	108	379	164	205	187	305	292	151	86	70	89
18	92	150	297	159	200	189	312	235	213	92	68	87
19	88	139	296	152	195	185	296	1020	217	95	65	86
20	86	126	258	155	190	204	277	952	208	96	63	90
21	96	119	232	183	180	292	265	670	171	116	60	134
22	86	123	214	198	1000	216	257	475	168	90	57	104
23	83	117	202	177	650	197	298	442	180	83	56	84
24	79	123	196	171	300	257	644	340	160	116	56	76
25	80	114	196	163	255	266	375	294	146	171	60	73
26	78	108	185	158	240	250	316	271	131	130	57	72
27	76	106	183	163	230	548	286	250	130	108	53	69
28	74	115	330	158	215	377	267	237	168	96	52	68
29	74	346	310	152	---	292	255	239	161	90	51	67
30	73	213	242	153	---	255	245	237	141	86	50	67
31	73	---	217	149	---	287	---	220	---	90	57	---
TOTAL	3506	4186	12614	6179	9750	7920	13887	10056	5521	3274	2838	3199
MEAN	113	140	407	199	348	255	463	324	154	106	91.5	107
MAX	830	346	1550	404	1580	619	1840	1020	264	171	456	244
MIN	47	73	183	149	166	185	242	199	130	83	50	67
CFSM	.95	1.18	3.42	1.67	2.92	2.14	3.89	2.72	1.55	.89	.77	.90
IN.	1.10	1.31	3.94	1.93	3.05	2.48	4.34	3.14	1.73	1.02	.89	1.00
CAL YR 1982	TOTAL	83836	MEAN 230	MAX 4680	MIN 47	CFSM 1.93	IN 26.21					
WTR YR 1983	TOTAL	82930	MEAN 227	MAX 1340	MIN 47	CFSM 1.91	IN 25.92					

MOBILE RIVER BASIN

02382500 COOSAWATTEE RIVER AT CARTERS, GA.

LOCATION.--Lat 34°36'13", long 84°41'44", Murray County, Hydrologic Unit 03150102, on downstream side of left bank pier of bridge on U.S. Highway 411 at Carters, 200 ft upstream from Louisville & Nashville Railroad bridge, 0.4 mi downstream from Carters re-regulation dam, and 0.6 mi downstream from Talking Rock Creek.

DRAINAGE AREA.--521 mi².

PERIOD OF RECORD.--August 1896 to December 1908, October 1918 to September 1923, October 1961 to August 1972, October 1974 to current year.

REVISED RECORDS.--WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 650.67 ft, National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to September 1923, nonrecording gage at site 0.4 mi upstream at datum 2.00 ft higher.

REMARKS.--Records good. Flow regulated by Carters Lake and Carters re-regulation dam since November 1974. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400.) Records of chemical analyses for the water years 1968-74 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--36 years (1896-1908, 1918-23, 1961-71, 1974-83), 1,232 ft³/s, 32.11 in/yr, adjusted for storage since 1975.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 28,500 ft³/s Nov. 19, 1906, gage height, 30.6 ft, present datum; minimum daily, 122 ft³/s, regulated Nov. 15, 1974; minimum discharge observed prior to regulation, 184 ft³/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, from floodmarks; discharge, 57,000 ft³/s, from rating curve extended above 24,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,780 ft³/s Dec. 10, gage height, 14.45 ft; minimum daily, 260 ft³/s Oct. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	230	503	1550	2310	1100	1230	1770	1420	1750	1450	524	466
2	272	609	1200	2320	1190	1200	1650	1460	1740	1170	695	491
3	296	695	1640	1960	1540	1230	1410	1510	1740	917	776	527
4	310	813	2050	1850	1980	1240	1470	1480	1710	924	826	522
5	320	1040	2020	1790	1950	1150	1260	1490	1580	978	860	481
6	275	937	1760	1880	2020	1150	1520	1440	1630	993	839	569
7	268	839	1710	1580	2060	1650	2420	1130	1690	935	785	707
8	274	996	2430	1390	2030	1980	2620	1060	2210	983	614	722
9	265	1010	2970	1240	2060	2060	2660	1170	2220	808	553	719
10	260	1030	2770	1360	2040	1650	2760	1200	1820	749	567	710
11	333	1050	2050	1370	2080	1720	2730	1210	1500	796	585	665
12	463	937	1950	1290	2060	1340	2760	975	1430	847	594	615
13	877	832	1990	1240	2010	1250	2690	803	1250	776	589	791
14	1340	358	2500	931	1850	1210	2750	767	905	770	536	906
15	1460	371	2240	665	1490	1280	2780	742	962	799	534	928
16	1250	867	2350	563	1490	1260	1660	751	996	813	651	943
17	1060	877	2770	787	1360	1270	1430	1050	1020	748	627	936
18	1100	973	2850	1020	1390	1330	1560	1310	1000	598	529	835
19	1110	1080	2900	1040	1340	1180	1550	1300	923	501	454	760
20	992	880	2930	1050	1310	926	1540	796	936	492	451	629
21	882	797	2990	1050	1290	1010	1540	728	929	539	382	564
22	776	811	2880	948	1170	1190	1530	1380	974	589	313	518
23	685	831	2700	962	1070	1240	1480	2630	1000	568	354	637
24	646	807	2130	1110	948	1280	1440	3190	975	563	368	632
25	725	821	1760	1250	1000	1290	1470	3190	1010	516	360	587
26	695	828	1630	1270	1070	1270	1530	4100	951	525	433	503
27	725	850	1650	1250	1020	1180	1520	3220	846	548	503	486
28	746	833	1680	1270	1110	1580	1630	2000	888	545	468	418
29	576	1060	2000	1150	---	1850	1600	1320	1190	558	447	378
30	468	1470	2220	998	---	1960	1510	1200	1390	543	451	349
31	459	---	2260	1040	---	1720	---	1580	---	527	464	---
TOTAL	20178	26855	68530	39934	43048	43076	56240	47627	39465	23020	17182	19094
MEAN	651	895	2211	1288	1537	1390	1875	1536	1316	743	554	636
MAX	1460	1470	2990	2320	2080	2060	2780	4100	2220	1450	860	943
MIN	260	503	1200	563	948	926	1260	728	346	492	313	349
MEAN+	811	962	2146	1215	1576	1358	2007	1744	1113	779	523	564
CFSM+	1.56	1.85	4.12	2.33	3.02	2.61	3.85	3.35	2.14	1.50	1.00	1.08
IN+	1.79	2.06	4.75	2.69	3.15	3.00	4.30	3.86	2.38	1.72	1.16	1.21

CAL YR 1982 TOTAL 483924 MEAN 1326 MAX 4970 MIN 260 MEAN+ 1334 CFSM+ 2.56 IN+ 34.76
WTR YR 1983 TOTAL 444249 MEAN 1217 MAX 4100 MIN 260 MEAN+ 1227 CFSM+ 2.36 IN+ 31.97

+ ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND CARTERS RE-REGULATION DAM.

02383500 COOSAWATTEE RIVER NEAR PINE CHAPEL, GA.

LOCATION.--Lat 34°33'51", long 84°49'59", Gordon County, Hydrologic Unit 03150102, on right bank at downstream side of highway bridge, 1.4 mi downstream from Sallacoa Creek, 8.7 mi upstream from confluence with Conasauga River, and 2.4 mi east of Pine Chapel.

DRAINAGE AREA.--831 mi².

PERIOD OF RECORD.--October 1938 to current year. Prior to October 1976, published as Coosawattee River at Pine Chapel, Ga.

Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 616.16 ft National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Since October 1, 1976, auxiliary water-stage recorder at highway bridge 2.2 mi downstream. Prior to Feb. 23, 1940, nonrecording gage at current auxiliary gage site and same datum. Feb. 23, 1940, to April 8, 1975, water-stage recorder at current auxiliary gage site and same datum. Feb. 23, 1940, to April 8, 1975 auxiliary water-stage recorder at current gage site. April 9, 1975, to Sept. 30, 1976, water-stage recorder on Oostanaula River at Resaca used as auxiliary gage, due to bridge construction.

REMARKS.--Records good except those for period of no base gage record, Dec. 19 to Jan. 11, which are fair. Flow regulated by Carters Lake and re-regulation dam. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400.)

AVERAGE DISCHARGE.--45 years, 1,505 ft³/s, 24.59 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,200 ft³/s Mar. 30, 1951, gage height, 34.2 ft at current base gage, 30.8 ft at current auxiliary gage; minimum daily, 188 ft³/s Sept. 11, 1976, minimum unregulated daily discharge, 220 ft³/s Oct. 26, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 8, 1938, reached a stage of 30.0 ft from gage reading at current auxiliary gage, discharge 34,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,190 ft³/s Apr. 9, maximum gage height, 22.63 ft Apr. 9; minimum daily discharge, 336 ft³/s Oct. 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1932 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	346	552	4760	2870	1420	1620	2450	1940	2150	1700	688	694
2	344	577	4590	3510	4630	1580	2460	1860	2140	1680	782	672
3	347	1220	2710	3920	4330	1560	2180	1970	2100	1250	935	874
4	353	1720	2760	2950	3280	1600	2070	1980	2230	1300	1000	744
5	391	1520	4770	2450	2840	1490	2210	1910	2840	1220	1010	660
6	360	1340	5780	2380	3390	3750	5400	1920	2130	1260	1050	643
7	336	1150	3410	2290	3700	3480	4330	1630	2390	1230	1020	1010
8	355	1130	3140	1960	3150	3060	4850	1460	2740	1190	869	964
9	335	1250	3610	1300	2910	2870	7410	1480	2700	1020	696	969
10	349	1240	3470	1740	2840	2550	7350	1580	2490	965	697	920
11	394	1250	3620	1860	3030	2320	5450	1570	1870	932	714	876
12	477	1270	5670	1710	2890	1940	4330	1470	1790	1050	728	777
13	1330	1230	5170	1660	2730	1710	3770	1130	1700	992	740	900
14	1700	1150	3680	1400	2630	1610	3730	1110	1210	949	682	1130
15	1720	1110	3430	1080	2050	1660	3810	1060	1200	963	646	1140
16	1450	1130	4380	901	2000	1660	3010	2320	1250	993	760	1130
17	1190	1140	4730	943	1880	1650	2240	1890	1270	966	793	1150
18	1130	1930	3970	1290	1820	1690	2150	1840	1300	822	710	1060
19	1220	1770	3790	1320	1770	1550	2290	3100	1240	686	558	929
20	1190	1410	3540	1340	1700	1350	2150	5320	1310	639	563	887
21	1010	1120	3630	1420	1670	1590	2100	4850	1250	662	523	697
22	970	1140	3530	1520	1610	1680	2060	2750	1240	740	420	775
23	789	1140	3490	1400	2050	1630	2090	4090	1360	726	421	880
24	736	1030	2730	1390	1730	1810	3240	4300	1300	722	471	770
25	768	1050	2490	1590	1560	2020	2830	3990	1270	708	461	758
26	796	1080	2080	1590	1530	1380	2340	4330	1250	704	482	668
27	788	1060	2030	1590	1460	3030	2180	4100	1120	711	594	605
28	834	1130	2280	1600	1450	3420	2200	2920	1100	698	595	596
29	762	2490	2990	1550	---	2740	2190	2010	1280	693	526	492
30	551	2230	3050	1350	---	2670	2070	1630	1630	698	560	471
31	532	---	2920	1330	---	2560	---	1830	---	669	552	---
TOTAL	23943	38659	112500	55704	68520	66030	97440	75340	50850	29538	21236	24841
MEAN	772	1239	3629	1797	2447	2130	3248	2430	1695	953	685	828
MAX	1720	2490	5780	3920	4830	3750	7410	5320	2840	1700	1050	1150
MIN	336	552	2030	901	1420	1350	2060	1060	1100	639	420	471

CAL YR 1982 TOTAL 726072 MEAN 1987 MAX 16800 MIN 336 MEAN+ 1997 CFSM+ 2.40 IN+ 32.62
WTR YR 1983 TOTAL 654611 MEAN 1981 MAX 7410 MIN 336 MEAN+ 1831 CFSM+ 2.20 IN+ 29.91

+ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND CARTERS RE-REGULATION DAM.

MOBILE RIVER BASIN

02383540 COOSAWATTEE RIVER NEAR CALHOUN, GA.

LOCATION.--Lat 34°32'28", long 84°54'03", Gordon County, Hydrologic Unit 03150102, at bridge on State Highway 225, 0.2 mi up-stream from confluence with Conasauga River, and 4.0 mi northeast of Calhoun.

DRAINAGE AREA.--861 mi², revised.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Carters Lake and Carters re-regulation reservoir. (See "Lakes and Reservoirs in Mobile River Basin", stations 02381400 and 02382400.) Discharge obtained from gaging station 02383500, Coosawattee River near Pine Chapel, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
27...	1200	753	55	55	7.4	7.4	15.5	16.0	8.5	86
NOV										
30...	1145	2070	73	77	--	7.4	13.0	10.5	9.3	90
DEC										
22...	1630	3460	48	48	7.2	7.2	10.5	13.0	10.9	100
JAN										
27...	0845	1590	59	56	7.4	7.2	7.0	7.0	11.2	93
FEB										
24...	1130	1830	67	69	--	7.5	10.0	11.0	10.2	93
MAR										
30...	1100	2500	54	54	7.4	7.9	9.5	8.0	11.0	98
APR										
27...	1200	2180	60	60	--	7.4	12.5	26.0	10.1	96
MAY										
24...	1830	4080	48	49	7.2	7.0	16.5	25.0	8.7	91
JUN										
29...	1400	1180	--	59	7.4	7.4	23.0	30.0	8.8	104
JUL										
27...	1445	700	62	67	7.5	7.3	24.0	33.5	8.1	99
AUG										
31...	1130	569	53	56	7.5	7.4	25.0	32.0	7.6	94
SEP										
28...	1115	628	59	62	7.6	7.6	19.0	19.5	8.1	89

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	ALKAL- INITY LAB (MG/L AS CACO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
27...	7	.6	330	20	.00	20	.20	.030	<.020	--
NOV										
30...	24	1.0	2300	28	2.0	36	.21	.050	.060	2.0
DEC										
22...	9	--	--	18	1.0	17	.19	.040	.060	1.3
JAN										
27...	6	.8	<30	20	.00	20	.24	.020	<.020	.5
FEB										
24...	28	.8	590	28	2.0	26	.24	.040	.030	4.6
MAR										
30...	10	1.1	--	20	.00	40	.24	.040	.100	1.1
APR										
27...	11	.5	220	22	1.0	21	.12	.040	<.020	1.2
MAY										
24...	14	--	110	16	1.0	15	.17	.050	.040	1.6
JUN										
29...	12	.7	140	20	.00	22	.22	.150	.020	<1.0
JUL										
27...	8	.6	80	24	1.0	23	.27	.030	<.020	1.3
AUG										
31...	7	1.3	170	22	1.0	21	.20	.040	.040	<1.0
SEP										
28...	6	.8	130	30	4.0	26	.17	<.020	.100	<1.0

MOBILE RIVER BASIN

255

02384500 CONASAUGA RIVER NEAR ETON, GA.

LOCATION.--Lat 34°49'40", long 84°51'03", Murray-Whitfield County line, Hydrologic Unit 03150101, at downstream side of right bank pier of bridge on State Highway 286, 3.4 mi upstream from Mill Creek, 5.2 mi west of Eton, and at mile 42.7.

DRAINAGE AREA.--252 mi².

PERIOD OF RECORD.--Water years 1954-58, 1963-81 (annual maximum), October 1981 to current year.

GAGE.--Water-stage recorder. Datum of gage is 672.64 ft, National Geodetic Vertical Datum of 1929. June 26, 1953, to September 30, 1958, and August 16, 1962, to September 30, 1981, crest-stage gage at site 75 ft downstream at datum 3.00 ft higher.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,200 ft³/s Mar. 17, 1973, gage height, 18.59 ft, present datum; minimum discharge, 52 ft³/s Sept. 30, 1983.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 2	0800	*9910	14.48	Feb. 3	0900	4580	11.84
Dec. 6	1700	4150	11.50	Apr. 6	2200	6360	12.94
Dec. 13	0100	4200	11.54	May 22	0100	4730	11.95

Minimum discharge, 52 ft³/s Sept. 30, gage height, 2.29 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	117	4660	438	333	369	440	312	451	293	100	75
2	79	117	3720	549	2940	335	446	293	396	432	102	77
3	73	423	3110	1130	3760	309	438	290	355	388	101	95
4	76	1080	1090	718	1170	291	443	375	580	276	96	99
5	79	899	2100	577	774	284	849	282	660	254	92	83
6	76	470	3840	500	1040	1520	4620	259	450	523	89	87
7	77	373	1930	445	1170	1200	4210	243	404	417	87	90
8	37	271	995	400	820	765	1520	255	401	257	97	84
9	129	232	759	396	678	583	2270	290	344	232	90	78
10	113	206	621	390	652	473	1960	237	321	200	84	71
11	111	189	1310	389	977	418	1290	225	284	180	81	88
12	220	192	3480	353	870	375	949	245	258	167	102	75
13	1150	390	2960	318	706	346	766	234	240	156	170	68
14	395	377	1190	304	616	325	650	220	226	145	98	70
15	411	305	971	293	542	309	670	217	216	139	84	76
16	275	256	2320	277	479	292	648	591	206	138	79	69
17	213	261	2030	260	439	282	570	838	200	141	77	62
18	180	613	1120	250	395	296	525	505	334	129	77	59
19	162	645	896	240	366	296	518	1060	359	134	74	57
20	152	508	746	235	342	334	442	2530	518	134	71	62
21	158	402	609	750	317	675	402	3960	370	124	69	121
22	183	420	523	1050	322	582	373	3860	266	123	66	137
23	153	410	479	700	1120	435	466	3350	231	113	64	98
24	145	415	445	550	902	393	916	2430	224	112	63	74
25	140	381	449	450	638	394	1190	1270	204	217	76	65
26	135	343	410	370	486	338	837	921	126	219	72	61
27	130	316	379	400	410	698	559	719	175	162	73	58
28	126	428	738	350	377	915	446	585	467	127	66	56
29	124	2140	943	320	---	621	393	521	518	113	66	54
30	121	1800	622	300	---	479	341	860	313	107	62	53
31	118	---	502	290	---	473	---	571	---	104	59	---
TOTAL	6177	14939	50937	13982	23641	15413	30187	28560	10157	6286	2587	2302
MEAN	199	498	1643	451	844	497	1006	921	339	203	83.5	76.7
MAX	1150	2140	8720	1130	3760	1520	4620	3960	660	523	170	137
MIN	76	117	379	235	317	282	341	217	175	104	59	53
CFSM	.79	1.93	6.52	1.79	3.35	1.97	3.99	3.66	1.35	.81	.33	.30
IN.	.91	2.21	7.52	2.06	3.49	2.28	4.46	4.22	1.50	.93	.38	.34
CAL YR 1982	TOTAL	223545	MEAN 612	MAX 8720	MIN 76	CFSM 2.43	IN 33.00					
WTR YR 1983	TOTAL	205168	MEAN 562	MAX 8720	MIN 53	CFSM 2.23	IN 30.29					

MOBILE RIVER BASIN

02384748 CONASAUGA RIVER NEAR DALTON, GA.

LOCATION.--Lat 34°47'20", long 84°52'30", Whitfield-Murray County line, Hydrologic Unit 03150101, at Dalton water works intake, 0.4 mi upstream from U.S. Highway 76, and 5.5 mi east of Dalton.

DRAINAGE AREA.--308 mi².

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
27...	0915	76	100	103	7.6	7.7	10.0	10.0	9.8	88
NOV										
30...	0930	2700	53	52	6.7	7.1	12.0	9.0	8.7	83
DEC										
22...	1530	550	97	94	7.4	7.5	7.0	13.0	11.1	93
JAN										
26...	1730	420	108	100	7.7	7.5	6.0	10.0	11.5	94
FEB										
24...	0745	940	72	75	7.0	7.5	10.5	9.5	9.7	90
MAR										
30...	0830	480	80	81	7.5	7.7	9.0	7.5	10.6	94
APR										
27...	0930	585	70	71	--	7.5	13.0	16.0	9.7	94
MAY										
24...	1730	2730	70	72	7.2	7.5	18.5	25.0	7.7	84
JUN										
29...	1045	470	71	71	7.2	7.4	--	29.0	6.9	--
JUL										
27...	0945	160	88	94	7.5	7.4	25.0	29.5	6.4	79
AUG										
31...	0845	14	127	131	7.5	7.7	25.5	27.0	6.0	75
SEP										
28...	0815	22	110	120	7.3	7.8	17.0	12.0	8.3	88

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, CON- FIRMED (MPN)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS (MG/L AS CaCO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CaCO3)	ALKA- LINEITY LAB (MG/L AS CaCO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
OCT									
27...	7	--	.4	3300	220	48	3.0	45	8
NOV									
30...	23	--	1.4	43000	930	22	3.0	19	42
DEC									
22...	6	--	--	--	--	44	4.0	40	3
JAN									
26...	5	--	1.5	2300	40	46	4.0	42	2
FEB									
24...	26	--	1.0	9300	930	34	5.0	29	35
MAR									
30...	6	--	1.0	--	--	36	2.0	34	12
APR									
27...	10	--	.1	3300	110	30	.00	30	13
MAY									
24...	24	--	--	49000	1300	28	.00	60	21
JUN									
29...	50	--	1.6	130000	3300	30	1.0	29	64
JUL									
27...	27	9	.7	--	230	42	5.0	37	32
AUG									
31...	15	5	.9	4900	170	60	2.0	58	28
SEP									
28...	11	4	.8	3600	180	68	13	55	7

02384748 CONASAUGA RIVER NEAR DALTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT					
27...	.14	.030	--	<.020	--
NOV					
30...	.12	.020	--	.080	4.5
DEC					
22...	.32	.020	--	<.020	<1.0
JAN					
26...	.24	.020	--	<.020	.4
FEB					
24...	.14	.040	--	.040	5.6
MAR					
30...	.17	.020	--	<.200	1.5
APR					
27...	.15	.030	--	<.020	1.2
MAY					
24...	.18	.060	--	.040	4.9
JUN					
29...	.20	.220	--	.370	5.8
JUL					
27...	.25	.050	.30	.060	3.3
AUG					
31...	.19	.080	.30	.040	2.0
SEP					
28...	.13	<.020	.30	.100	1.6

02385800 HOLLY CREEK NEAR CHATSWORTH, GA.

LOCATION.--Lat 34°43'00", long 84°46'12", Murray County, Hydrologic Unit 03150101, on right bank 100 ft upstream from bridge on county road, 3 mi upstream from Rock Creek, and 3.3 mi south of Chatsworth.

DRAINAGE AREA.--64.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1960 to current year.

REVISED RECORDS.--WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 690 ft, from topographic map.

REMARKS.--Records good. Low flow affected by withdrawals and return flow by the city of Chatsworth. Records of chemical analyses for the water years 1968-74 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--23 years, 123 ft³/s, 26.10 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,110 ft³/s Mar. 4, 1979, gage height, 12.54 ft; minimum daily, 1.5 ft³/s Sept. 14, 16, 17, 1980.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 29	1600	2470	9.17	Feb. 2	1900	1840	8.76
Dec. 1	2400	*3380	9.82	May 21	0900	2260	9.05
Dec. 6	0400	1800	8.73				

Minimum daily discharge, 4.9 ft³/s Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	26	1730	103	78	87	102	81	89	41	13	10
2	16	26	1830	289	1270	78	119	74	80	50	17	16
3	15	414	545	371	761	73	109	92	74	38	16	29
4	14	490	290	194	265	69	93	95	117	34	15	14
5	14	200	1040	148	178	69	244	72	96	62	14	11
6	13	115	1360	126	453	743	1290	66	92	66	12	25
7	17	55	501	110	344	259	572	62	92	35	14	32
8	43	71	267	98	218	164	427	61	77	32	14	21
9	36	62	199	92	175	126	605	58	67	29	11	16
10	25	57	164	90	174	108	528	54	68	27	10	13
11	71	53	594	96	251	97	295	53	58	25	16	11
12	109	69	1240	81	196	89	202	52	53	36	38	18
13	645	156	628	74	160	83	160	52	49	25	17	19
14	283	94	322	71	142	78	168	43	46	23	12	17
15	103	77	270	69	124	75	176	69	44	21	11	13
16	69	66	869	66	111	72	147	632	43	20	10	9.9
17	51	90	520	65	101	71	127	283	41	21	9.3	9.0
18	43	420	286	63	90	73	126	122	81	27	8.6	7.8
19	37	285	234	58	85	71	113	489	73	21	3.3	6.7
20	36	167	139	59	79	62	99	1450	68	22	7.1	6.3
21	67	123	155	118	75	212	89	1680	49	31	6.6	25
22	42	128	132	282	92	112	85	750	47	21	6.4	19
23	36	116	119	150	387	99	124	602	56	19	5.8	11
24	34	157	109	114	185	97	241	360	62	13	6.9	8.6
25	32	127	110	93	136	91	283	219	41	138	6.6	7.5
26	30	107	95	84	108	81	174	169	36	60	9.2	7.1
27	29	94	98	84	94	212	133	139	34	29	7.0	5.5
28	28	192	207	79	89	172	111	120	67	21	6.0	5.6
29	28	1790	201	72	---	125	97	118	58	18	7.3	5.5
30	27	698	142	74	---	103	87	119	42	16	5.4	4.9
31	27	---	117	67	---	126	---	97	---	15	5.0	---
TOTAL	2035	6555	14553	3540	6421	3987	7126	8338	1876	1041	350.5	404.3
MEAN	65.6	219	469	114	229	129	238	269	63.2	33.6	11.3	13.5
MAX	645	1790	1830	371	1270	743	1290	1680	117	138	38	32
MIN	13	26	88	58	75	69	85	48	34	15	5.0	4.9
CFSM	1.03	3.42	7.33	1.78	3.58	2.02	3.72	4.20	.99	.53	.18	.21
IN.	1.18	3.81	5.46	2.06	3.73	2.32	4.14	4.85	1.10	.61	.20	.23

CAL YR 1982	TOTAL	65666.0	MEAN	180	MAX	3510	MIN	12	CFSM	2.81	IN	38.17
WTR YR 1983	TOTAL	56246.8	MEAN	154	MAX	1830	MIN	4.9	CFSM	2.41	IN	32.69

02385800 HOLLY CREEK NEAR CHATSWORTH, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to June 1974, March 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
NOV 10...	1135	57	9.5	8	1.2
DEC 15...	1220	234	9.5	10	6.3
FEB 02...	1245	1200	12.5	108	350
JUN 08...	1050	77	18.0	24	5.0

LOCATION.--Lat 34°40'00", long 84°55'42", Whitfield-Murray County line, Hydrologic Unit 03150101, on left bank 250 ft downstream from highway bridge, 0.2 mi downstream from Swamp Creek, 0.5 mi northeast of Tilton, and 12 mi upstream from confluence with Coosawattee River.

DRAINAGE AREA.--687 mi².

WATER-DISCHARGE RECORDS

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 4	0200	*13500	21.72	Feb. 4	1100	8130	17.18
Dec. 14	0200	7270	16.42	Apr. 8	1700	9720	18.98
Dec. 17	1900	5500	13.47	May 23	0700	8870	18.32

Minimum daily discharge, 95 ft³/s Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157	232	7380	1140	930	895	1250	791	949	526	207	101
2	149	229	9080	1340	5910	355	1320	742	830	631	192	113
3	150	790	12200	2920	7370	781	1450	701	744	651	191	209
4	156	1960	12400	2660	7860	727	1240	814	789	545	180	209
5	158	2140	7890	1650	3760	696	1430	780	1170	588	171	180
6	147	1210	6630	1370	2630	2440	6200	662	1010	702	159	163
7	153	774	7240	1220	3910	4110	7930	597	800	764	155	193
8	193	604	5040	1070	2950	2180	9430	559	785	578	172	186
9	243	511	2180	974	2060	1470	8270	593	719	455	174	153
10	255	453	1670	987	1800	1170	6260	617	623	359	161	143
11	230	411	2540	1030	2300	1020	4370	534	593	353	150	123
12	329	397	5980	967	2600	913	2630	508	550	326	162	194
13	1640	582	6950	339	1980	339	1960	536	514	314	204	170
14	2530	777	6360	764	1650	788	1670	518	480	294	246	143
15	1240	631	2920	728	1460	744	1640	527	459	272	176	123
16	681	536	4650	694	1280	713	1530	1420	443	262	157	117
17	500	546	5380	663	1150	693	1340	2230	427	256	140	111
18	415	1820	4050	629	1030	714	1220	1420	470	292	137	98
19	357	2510	2380	595	951	721	1170	2420	767	262	139	104
20	328	1580	1980	561	880	735	1050	5410	889	255	128	108
21	338	1110	1600	927	819	1720	941	7330	815	288	119	209
22	360	1030	1350	2670	810	1650	877	9550	645	254	116	224
23	334	1020	1200	2390	1680	1150	986	8700	524	228	124	207
24	300	991	1100	1610	2450	995	2020	7470	550	211	115	151
25	288	973	1120	1250	1630	1070	2140	4650	503	363	113	121
26	277	824	1070	1050	1230	929	1920	2200	431	526	113	118
27	258	738	966	984	1020	2340	1380	1600	402	361	111	116
28	247	1070	1260	993	924	2810	1110	1300	368	287	112	101
29	236	5290	2460	906	---	1940	957	1110	1050	221	115	100
30	231	5540	1810	879	---	1360	862	1140	642	198	119	95
31	229	---	1330	873	---	1270	---	1360	---	185	105	---
TOTAL	13109	37269	130186	37392	65024	40438	76553	67789	19901	11857	4663	4383
MEAN	423	1242	4200	1206	2322	1304	2552	2187	663	382	150	146
MAX	2530	5540	12400	2920	7860	4110	9430	8700	1170	764	246	224
MIN	147	229	966	561	810	693	862	508	368	185	105	95
CFSM	.62	1.81	6.11	1.76	3.38	1.90	3.72	3.18	.97	.56	.22	.21
IN.	.71	2.02	7.05	2.02	3.52	2.19	4.15	3.67	1.08	.64	.25	.22

CAL YR 1982	TOTAL	577702	MEAN	1583	MAX	18200	MIN	147	CFSM	2.30	IN	31.28
WTR YR 1983	TOTAL	508564	MEAN	1393	MAX	12400	MIN	95	CFSM	2.03	IN	27.54

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1975 to current year.

pH: October 1975 to current year.

WATER TEMPERATURES: October 1975 to current year.

DISSOLVED OXYGEN: October 1975 to current year.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 623 micromhos Sept. 26, 1981; minimum, 34 micromhos Mar. 23, 1980.

pH: Maximum recorded, 8.7 units Feb. 28, Mar. 1, 1977; minimum recorded, 6.3 units July 5, 6, 1976.

WATER TEMPERATURE: Maximum recorded, 32.5°C Aug. 7, 1979; minimum recorded, 0.0°C Dec. 19, 20, 1981.

DISSOLVED OXYGEN: Maximum recorded, 13.6 mg/L Jan. 31, 1977; minimum recorded, 0.6 mg/L July 1, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 333 micromhos Aug. 25; minimum, 54 micromhos Dec. 3.

pH: Maximum recorded, 7.7 units Aug. 30; minimum recorded, 6.5 units Dec. 3, 4, Apr. 7, 8.

WATER TEMPERATURE: Maximum, 31.5°C Aug. 21, 22; minimum, 2.0°C Jan. 20, 21.

DISSOLVED OXYGEN: Maximum recorded, 12.7 mg/L Jan. 21; minimum, 1.1 mg/L Sept. 3.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT									
19...	1300	350	164	157	7.2	7.6	15.0	24.0	7.7
NOV									
08...	1130	603	103	106	7.2	7.4	9.5	7.0	9.3
DEC									
14...	1330	6640	75	77	6.9	7.1	6.0	4.0	8.5
JAN									
19...	1420	538	170	162	7.3	7.5	3.5	2.0	9.6
FEB									
08...	1300	2850	107	104	7.1	7.4	5.5	3.0	9.8
MAR									
23...	1130	1140	126	129	7.2	7.5	10.0	9.0	9.0
APR									
12...	1540	2520	102	99	7.0	7.3	14.5	15.0	9.1
MAY									
12...	1000	507	166	173	7.2	7.4	19.5	19.0	7.2
JUN									
14...	1400	470	165	163	7.3	7.4	22.5	26.0	7.7
JUL									
20...	1310	246	220	219	7.3	7.5	28.0	30.0	5.3
AUG									
10...	1300	160	252	250	7.3	7.4	29.5	31.0	5.1
SEP									
26...	1330	116	236	238	7.4	7.3	20.0	20.0	6.2

MOBILE RIVER BASIN

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	ALKA- LITY LAB (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
OCT 19...	15	15	1.2	1700	53	9.0	49	10
NOV 08...	3	9	.7	230	40	.00	40	<1
DEC 14...	25	16	1.5	230	30	4.0	26	12
JAN 19...	7	20	1.3	--	74	15	59	4
FEB 08...	30	10	.8	430	44	6.0	38	6
MAR 23...	16	16	1.5	1500	50	3.0	47	22
APR 12...	15	11	1.4	220	40	3.0	37	23
MAY 12...	16	19	2.2	20	60	2.0	58	34
JUN 14...	16	18	.8	140	60	4.0	56	30
JUL 20...	11	25	2.3	230	76	4.0	72	18
AUG 10...	4	30	1.9	270	86	11	75	5
SEP 26...	14	24	1.5	110	80	7.0	73	18

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 19...	1.5	.520	1.00	1.50	--
NOV 08...	.16	.060	.30	.220	--
DEC 14...	.24	.070	.30	.130	4.1
JAN 19...	.60	.130	.90	.750	6.7
FEB 08...	.36	.060	.30	.180	2.6
MAR 23...	.21	.050	.30	.400	5.8
APR 12...	.23	.070	.40	.230	3.4
MAY 12...	.27	.210	.60	.840	7.1
JUN 14...	.44	.080	.40	.880	4.2
JUL 20...	.36	.160	.90	1.66	9.0
AUG 10...	.48	.170	1.20	3.00	9.2
SEP 26...	.39	.140	.60	1.17	7.6

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	260	251	151	170	79	74	---	---	165	125	140	134
2	265	255	215	173	92	90	---	---	---	---	144	139
3	255	219	216	153	57	54	---	---	---	---	149	144
4	220	215	162	128	76	56	---	---	---	---	149	146
5	259	211	127	99	97	80	---	---	---	---	154	142
6	287	262	101	97	93	74	---	---	---	---	149	95
7	301	289	105	99	75	70	---	---	---	---	95	84
8	298	287	116	100	88	75	---	---	110	107	106	92
9	297	236	139	119	94	35	---	---	116	110	119	107
10	230	210	146	139	124	95	---	---	122	117	124	116
11	216	192	157	146	152	131	---	---	128	122	127	124
12	234	185	156	152	166	143	---	---	128	122	129	125
13	201	137	200	154	141	74	164	160	121	111	126	124
14	132	102	156	131	85	75	164	159	120	111	134	124
15	119	102	132	122	102	86	163	152	125	119	143	135
16	123	114	143	128	104	95	154	149	129	124	149	144
17	126	117	153	143	102	85	158	147	131	128	151	147
18	133	122	175	132	90	89	167	160	133	130	152	150
19	154	134	137	128	94	92	173	165	135	131	157	152
20	170	162	140	130	116	95	173	167	130	126	153	136
21	181	165	131	123	123	117	169	140	133	123	151	120
22	177	166	142	123	131	124	143	128	137	132	140	126
23	179	165	151	142	133	128	131	112	150	124	140	128
24	165	157	164	148	132	130	123	112	126	115	143	130
25	157	153	153	134	144	131	134	124	132	117	141	132
26	196	154	136	129	---	---	141	134	128	118	139	131
27	201	190	130	129	---	---	150	141	121	120	132	110
28	196	189	131	82	---	---	150	148	134	121	122	110
29	209	193	109	90	---	---	153	148	---	---	116	108
30	207	196	110	81	---	---	150	147	---	---	116	109
31	194	181	---	---	---	---	158	146	---	---	128	117
MONTH	301	102	216	81	166	54	173	112	165	107	157	84
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		
1	128	124	125	122	140	132	151	141	202	193	330	323
2	138	127	136	122	141	132	181	141	232	194	328	320
3	132	126	144	136	149	142	144	124	237	225	321	300
4	135	130	154	140	164	146	131	122	237	224	292	232
5	138	97	148	140	147	131	156	121	242	230	232	207
6	101	74	156	148	146	130	162	136	246	238	209	197
7	73	60	159	151	143	133	147	109	246	228	277	207
8	84	62	152	141	147	141	125	108	227	213	278	250
9	99	85	152	136	158	149	129	124	250	217	261	251
10	96	91	165	154	155	153	134	126	262	247	265	258
11	96	86	168	163	157	152	146	135	264	259	265	251
12	108	97	167	164	155	144	210	146	273	261	256	223
13	117	109	175	167	153	141	207	186	283	248	243	224
14	129	117	168	160	166	156	193	185	243	199	257	242
15	130	126	163	147	168	163	202	189	196	178	262	237
16	131	122	163	120	177	168	210	197	233	179	271	263
17	122	115	125	105	181	176	203	192	264	235	289	272
18	124	114	113	104	181	176	191	185	271	266	297	279
19	127	124	114	90	177	148	218	183	274	269	281	257
20	130	127	106	82	172	150	222	200	282	269	278	238
21	136	131	82	65	155	137	218	205	282	271	329	268
22	138	135	67	63	154	143	213	203	271	248	276	247
23	146	134	77	65	165	154	222	208	271	236	254	238
24	142	127	80	75	172	165	218	213	300	274	257	234
25	131	112	99	81	175	171	218	188	333	303	260	248
26	109	83	105	99	179	173	212	152	323	316	248	228
27	106	91	113	106	182	171	166	159	328	319	274	223
28	115	107	115	112	197	183	184	165	329	315	301	275
29	122	115	116	113	201	99	201	185	321	264	320	301
30	126	122	121	115	140	115	218	202	286	248	329	320
31	---	---	135	116	---	---	219	201	321	291	---	---
MONTH	146	60	175	63	201	99	222	108	333	178	330	197
YEAR	333	54										

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	5.8	5.3	8.3	8.2	11.0	9.5	---	---	10.7	10.2	11.2	10.8
2	5.4	4.7	8.3	7.4	10.9	9.5	---	---	---	---	10.7	10.1
3	5.9	5.1	7.8	6.4	9.8	9.2	---	---	---	---	10.2	9.7
4	6.1	5.5	7.5	6.9	9.3	8.7	---	---	---	---	9.8	9.3
5	6.2	5.6	8.8	7.8	8.8	8.2	---	---	---	---	9.2	8.8
6	5.7	4.8	9.8	9.2	8.2	7.0	---	---	---	---	8.7	7.9
7	4.8	4.2	10.4	10.2	6.9	6.7	---	---	---	---	8.0	7.8
8	4.7	3.2	10.7	10.5	---	---	---	---	12.5	12.1	8.2	7.9
9	4.0	3.3	10.6	10.4	---	---	---	---	12.2	11.1	8.4	8.2
10	4.4	4.1	10.5	10.2	---	---	---	---	12.0	11.4	9.0	8.4
11	4.5	4.3	10.3	9.9	---	---	---	---	12.4	12.0	10.1	9.1
12	5.8	4.6	9.9	9.3	---	---	---	---	12.2	11.9	10.9	10.1
13	6.8	5.9	9.5	8.8	---	---	11.5	11.0	12.3	12.0	11.4	10.9
14	7.1	6.9	9.9	9.3	12.1	10.5	11.8	11.3	12.3	12.1	11.2	10.5
15	7.2	6.6	10.4	10.1	---	---	11.6	11.4	12.1	11.8	10.5	9.6
16	---	---	10.4	10.3	---	---	12.0	11.6	11.8	11.6	9.5	8.7
17	---	---	10.3	10.1	---	---	12.3	12.0	11.7	11.1	8.7	8.2
18	---	---	10.0	9.5	---	---	12.3	12.1	11.5	11.0	8.4	8.2
19	7.7	7.6	9.5	8.3	---	---	12.6	12.3	11.6	11.4	8.7	8.3
20	7.7	7.5	9.5	8.5	---	---	12.6	12.5	11.6	11.3	8.9	8.6
21	7.6	7.2	9.0	8.7	11.3	10.7	12.7	12.3	11.5	11.0	9.0	8.3
22	7.4	7.3	8.7	8.3	11.6	11.1	12.3	11.7	10.8	10.0	9.7	9.0
23	7.8	7.5	8.3	8.0	11.7	11.4	11.6	11.1	---	---	10.1	9.7
24	8.4	7.9	8.1	7.8	11.5	10.7	11.0	10.3	10.0	9.6	10.2	10.1
25	8.8	8.5	7.8	7.6	---	---	10.3	10.0	---	---	10.7	10.2
26	9.0	8.6	8.3	7.8	---	---	---	---	11.1	10.5	10.9	10.6
27	8.6	8.4	8.5	7.9	---	---	---	---	11.1	10.9	10.6	9.7
28	8.6	8.5	8.1	7.3	---	---	11.2	10.8	11.8	10.5	9.8	9.5
29	8.7	8.2	7.6	7.0	---	---	10.7	10.0	---	---	10.1	9.7
30	8.3	8.1	---	---	---	---	10.4	10.0	---	---	10.3	10.0
31	8.2	8.1	---	---	---	---	10.6	10.0	---	---	10.1	9.8
MONTH	9.0	3.2	10.7	6.4	12.1	6.7	12.7	10.0	12.5	9.6	11.4	7.8
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10.0	9.7	7.8	7.4	7.6	7.3	5.3	4.9	4.5	3.9	3.2	1.2
2	9.7	9.2	7.6	7.0	7.6	7.4	5.7	4.5	4.9	3.8	2.6	1.4
3	9.8	9.3	7.0	6.5	7.5	7.1	6.0	5.4	4.4	3.5	1.9	1.1
4	10.4	9.9	6.9	5.9	7.2	6.2	6.1	5.9	4.5	3.3	3.2	1.6
5	10.1	9.6	7.5	6.9	7.1	6.8	6.2	5.9	4.1	2.6	3.7	3.0

02387050 CONASAUGA RIVER NEAR RESACA, GA.

LOCATION.--Lat 34°35'36", long 84°56'02", Gordon County, Hydrologic Unit 03150101, at county highway bridge, 1.1 mi northeast of Resaca, and 5.1 mi upstream from confluence with Coosawattee River.

DRAINAGE AREA.--706 mi².

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHQS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHQS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 27...	1030	220	190	192	7.4	7.5	11.0	12.0	7.8	72
NOV 30...	1030	6200	92	94	6.8	7.2	12.0	10.0	8.4	80
DEC 22...	1715	1700	121	117	7.4	7.5	7.5	12.0	10.7	91
JAN 27...	0945	1050	146	137	7.6	7.4	6.0	7.0	10.8	88
FEB 24...	1025	2900	120	123	7.1	7.6	11.0	10.0	9.5	89
MAR 30...	0945	1580	105	108	7.5	7.7	10.0	7.5	10.1	91
APR 27...	1100	1190	96	100	--	7.4	13.5	19.5	9.2	89
MAY 24...	1920	7400	76	78	7.1	7.0	19.5	25.0	6.4	71
JUN 29...	1315	500	175	178	7.4	7.5	26.5	30.0	4.9	62
JUL 27...	1220	370	140	164	7.4	7.2	28.0	33.5	4.0	52
AUG 31...	1000	105	245	257	7.6	7.7	27.0	29.5	5.5	70
SEP 28...	0915	98	200	220	7.6	7.8	18.0	18.5	6.4	69

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	ALKA- LITY LAB (MG/L AS CAC03)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 27...	10	1.0	170	66	10	56	2.1	.240	1.72	--
NOV 30...	60	2.8	25300	38	4.0	34	.25	.040	.270	14
DEC 22...	9	--	--	48	3.0	45	.33	.060	.260	1.8
JAN 27...	15	1.3	220	56	8.0	48	.30	.070	.400	2.7
FEB 24...	60	1.8	4300	50	3.0	47	.24	.070	.290	8.5
MAR 30...	20	1.0	--	44	3.0	41	.21	.050	.370	3.6
APR 27...	15	.7	170	38	3.0	35	.14	.070	.340	3.2
MAY 24...	25	--	490	30	3.0	27	.15	.070	.160	5.8
JUN 29...	35	2.3	4900	70	6.0	64	.32	.300	1.02	6.1
JUL 27...	15	1.3	330	64	12	52	.45	.100	.980	7.6
AUG 31...	10	2.9	50	94	6.0	88	.30	.050	1.32	8.2
SEP 28...	15	1.6	50	76	.00	77	.43	.030	1.10	7.3

MOBILE RIVER BASIN

02387500 OOSTANAULA RIVER AT RESACA, GA.

LOCATION.--Lat 34°34'42", long 84°56'29", Gordon County, Hydrologic Unit 03150103, near left bank on downstream side of pier of bridge on U.S. Highway 41 at Resaca, 200 ft downstream from Nashville, Chattanooga, & St. Louis Railway bridge, 0.8 mi upstream from Camp Creek, and 3.5 mi downstream from confluence of Conasauga and Coosawattee Rivers.

DRAINAGE AREA.--1,600 mi².

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, 1905-07, 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). WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 604.14 ft, National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Since June 1, 1979, auxiliary water-stage recorder at Calhoun water-works intake 6.5 mi downstream. Oct. 28, 1948, to May 31, 1979, nonrecording auxiliary gage located at State Highway 136 connector 7.1 mi downstream.

REMARKS.--Records good. Flow regulated by Carters Lake and re-regulation dam. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400).

AVERAGE DISCHARGE.--91 years, 2,822 ft³/s, 23.95 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,800 ft³/s Mar. 31, 1951; maximum gage height, 34.6 ft Mar. 31, 1951; minimum discharge observed, 180 ft³/s Sept. 7, 8, 1925, gage height, 0.5 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1834, 36.6 ft Apr. 1, 1886, from information by Georgia Department of Archives; discharge, 68,600 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,200 ft³/s Apr. 10, gage height, 21.74 ft; minimum daily discharge, 528 ft³/s Oct. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1932 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	592	834	11400	4320	2460	2710	4000	2910	3270	2390	951	776
2	547	881	13800	4990	9210	2700	4030	2750	3110	2540	1000	848
3	528	1780	13300	6920	12200	2570	4010	2790	2990	2190	1200	1060
4	553	3520	14300	6330	11700	2540	3600	2860	3070	2320	1260	1100
5	576	3830	15100	4300	9750	2430	3720	2860	4210	1950	1250	977
6	568	2990	14700	4190	6380	5700	10900	2740	3450	2060	1300	886
7	533	2170	13000	3910	7700	7640	12600	2470	3210	2130	1280	1220
8	590	1850	11000	3350	6640	6220	13600	2160	3620	2010	1130	1260
9	678	1910	7230	3020	5440	4730	15200	2120	3620	1670	970	1230
10	691	1800	5700	2900	4930	4110	16000	2300	3350	1540	924	1170
11	672	1770	6060	3150	5410	3640	14000	2230	2710	1420	918	1110
12	780	1760	10700	2970	5740	3220	9700	2140	2510	1480	925	1050
13	2320	1920	12400	2770	5130	2830	6390	1810	2390	1430	967	1120
14	4230	2030	11600	2500	4600	2650	5650	1760	1970	1360	1030	1350
15	3460	1910	8670	2110	3890	2580	5600	1680	1770	1330	899	1360
16	2440	1790	8620	1850	3560	2580	5000	3450	1810	1340	959	1330
17	1890	1760	10000	1760	3320	2540	3720	4370	1820	1330	977	1350
18	1710	3520	9380	2060	3100	2590	3380	3670	1850	1240	918	1280
19	1680	4890	7000	2110	2960	2630	3500	4830	2150	1070	774	1120
20	1650	3610	6140	2090	2800	2370	3310	10100	2410	956	733	1090
21	1470	2600	5690	2380	2710	3380	3150	13200	2360	1000	701	949
22	1460	2360	5280	4230	2650	3660	3050	12300	2090	1060	587	1080
23	1260	2370	4970	4260	3540	3120	3120	13200	2220	1040	552	1170
24	1150	2250	4300	3360	4530	3020	4980	13200	2040	1010	607	1070
25	1100	2210	3910	3080	3610	3380	5320	11800	1950	1060	598	991
26	1160	2090	3480	2890	3060	3140	4500	7960	1860	1360	582	891
27	1110	1950	3290	2780	2770	5250	3850	6420	1680	1250	711	798
28	1140	2270	3590	2780	2590	6650	3500	4820	1580	1120	748	771
29	1120	7550	5330	2700	---	5530	3330	3480	2120	1020	686	664
30	888	7810	5310	2450	---	4410	3110	2890	2520	997	705	625
31	827	---	4590	2360	---	4170	---	3180	---	941	686	---
TOTAL	39373	79935	260040	101370	142580	114690	185820	154450	75740	45614	27578	31696
MEAN	1270	2666	8388	3270	5092	3700	6194	4922	2525	1471	890	1057
MAX	4230	7810	15100	6920	12200	7640	16000	13200	4210	2540	1300	1360
MIN	528	834	3290	1760	2460	2370	3050	1680	1580	941	532	625

CAL YR 1982 TOTAL 1406977 MEAN 3355 MAX 24600 MIN 528 MEAN† 3863 CFSM† 2.41 IN† 32.77
WTR YR 1983 TOTAL 1258936 MEAN 3449 MAX 16000 MIN 526 MEAN† 3459 CFSM† 2.16 IN† 29.35

† ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND CARTERS RE-REGULATION DAM.

MOBILE RIVER BASIN

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02387500 OOSTANULA RIVER AT RESACA, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.93	2.49	16.37	8.13	5.47	5.87	7.70	6.53	7.09	5.65	3.02	2.63
2	1.32	2.60	19.20	9.93	13.97	5.84	7.74	6.26	6.85	5.91	3.13	2.80
3	1.77	4.27	13.49	11.41	17.15	5.64	7.72	6.33	6.66	5.32	3.52	3.24
4	1.33	7.04	19.13	10.67	16.65	5.60	7.16	6.45	6.79	5.53	3.65	3.33
5	1.69	7.43	20.33	8.75	14.64	5.41	7.30	6.44	8.39	4.91	3.63	3.08
6	1.37	6.27	20.29	7.95	10.73	9.84	13.80	6.25	7.35	5.11	3.71	2.88
7	1.78	4.99	18.38	7.59	12.35	12.28	17.55	5.80	7.00	5.22	3.67	3.56
8	1.92	4.45	15.95	6.80	11.29	10.52	18.43	5.27	7.59	5.01	3.49	3.65
9	2.14	4.55	11.77	6.32	9.59	8.67	20.57	5.20	7.59	4.41	3.06	3.59
10	2.17	4.36	9.83	6.15	3.93	7.85	21.57	5.51	7.25	4.16	2.96	3.47
11	2.12	4.31	10.33	6.51	9.53	7.21	20.06	5.39	6.19	3.95	2.95	3.34
12	2.37	4.29	15.70	6.25	9.93	6.61	13.26	5.25	5.85	4.05	2.97	3.22
13	5.15	4.57	17.36	5.96	9.18	6.04	11.11	4.67	5.66	3.97	3.06	3.36
14	8.01	4.75	16.54	5.52	8.50	5.76	10.19	4.57	4.94	3.83	3.19	3.82
15	6.95	4.55	13.67	4.89	7.55	5.68	10.12	4.42	4.60	3.73	2.91	3.83
16	5.42	4.34	13.42	4.45	7.10	5.65	9.38	7.23	4.66	3.80	3.04	3.78
17	4.51	4.28	15.01	4.29	6.76	5.59	7.73	3.59	4.62	3.75	3.03	3.81
18	4.19	6.99	14.30	4.80	6.45	5.67	7.26	7.65	4.73	3.60	2.95	3.68
19	4.14	6.87	11.50	4.89	6.24	5.73	7.43	9.07	5.26	3.27	2.63	3.38
20	4.09	7.16	10.43	4.85	6.01	5.31	7.15	15.09	5.69	3.03	2.53	3.32
21	3.76	5.68	9.87	5.32	5.85	6.84	6.91	13.25	5.61	3.13	2.45	3.02
22	3.74	5.29	9.36	8.00	5.76	7.24	6.76	17.34	5.16	3.25	2.17	3.30
23	3.37	5.31	8.97	8.04	7.05	6.47	6.86	18.23	5.37	3.20	2.08	3.46
24	3.16	5.11	8.11	6.82	8.41	6.32	9.35	18.21	5.06	3.14	2.22	3.27
25	3.06	5.05	7.59	6.42	7.17	6.84	9.79	16.82	4.91	3.25	2.20	3.11
26	3.18	4.95	6.98	5.13	6.38	6.50	8.76	12.91	4.75	3.83	2.16	2.89
27	3.07	4.62	6.72	5.97	5.95	9.30	7.91	11.14	4.44	3.63	2.48	2.68
28	3.14	5.10	7.13	5.97	5.67	11.07	7.42	9.15	4.25	3.38	2.57	2.62
29	3.10	12.15	9.41	5.84	---	9.67	7.18	7.39	5.18	3.17	2.42	2.36
30	2.61	12.43	9.39	5.45	---	8.25	6.86	6.50	5.87	3.12	2.46	2.27
31	2.48	---	5.48	5.31	---	7.93	---	6.96	---	3.00	2.42	---
MEAN	3.25	5.61	12.91	6.59	8.94	7.20	10.50	8.87	5.85	4.01	2.86	3.22
MAX	8.01	12.48	20.33	11.41	17.15	12.28	21.57	18.25	8.39	5.91	3.71	3.83
MIN	1.77	2.49	6.72	4.29	5.47	5.31	6.76	4.42	4.25	3.00	2.08	2.27
CAL YR 1982	MEAN 6.93		MAX 27.52	MIN 1.77								
WTR YR 1983	MEAN 5.64		MAX 21.57	MIN 1.77								

02387500 OOSTANAULA RIVER AT RESACA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1969 to June 1974, April 1981 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: July 1967 to current year.

INSTRUMENTATION.--Water-temperature recorder since July 1967.

REMARKS.--No daily water-temperature record Nov. 17 to Dec. 4 and Dec. 16 to Jan. 2.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum recorded, 28.5°C Aug. 21, 1980; minimum recorded, 1.0°C Jan. 9-14, 1970, Jan. 16, 17, 21-24, Feb. 1, 1977, Jan. 12, 13, 1981.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 28.0°C Aug. 23; minimum, 4.0°C Jan. 19.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
NOV					
09...	1100	1980	11.5	18	96
09...	1105	1980	11.5	16	86
DEC					
01...	1755	13200	16.0	135	4810
02...	0910	14000	19.0	92	3480
02...	0915	14000	19.0	94	3550
05...	1550	15400	16.0	60	2490
07...	1320	12500	13.0	45	1520
07...	1325	12500	13.0	41	1380
09...	1140	7040	12.0	48	912
09...	1145	7040	12.0	55	1050
FEB					
01...	1215	2370	8.0	10	64
01...	1220	2370	8.0	10	64
MAR					
15...	1020	2610	10.0	13	92
15...	1025	2610	10.0	13	92
APR					
07...	1240	12700	13.0	84	2880
MAY					
18...	1340	3610	17.0	58	565
18...	1345	3610	17.0	58	565
19...	1620	5960	17.0	154	2480
19...	2145	7910	17.0	200	4270
19...	2150	7910	17.0	189	4040
20...	0820	9390	17.0	188	4770
20...	0825	9390	17.0	193	4890
22...	1125	12100	19.0	70	2290
22...	1130	12100	19.0	66	2160
24...	1710	13100	19.0	54	1910
24...	1715	13100	19.0	45	1590
26...	1035	7870	17.5	61	1300
26...	1040	7870	17.5	51	1080
27...	0845	6680	16.5	64	1150
27...	0850	6680	16.5	61	1100
JUN					
07...	0920	3160	19.0	38	324
07...	0925	3160	19.0	40	341
JUL					
20...	0920	973	24.0	20	53
20...	0925	973	24.0	19	50
AUG					
30...	0915	716	25.0	14	27
30...	0920	716	25.0	14	27

02387500 OOSTANAULA RIVER AT RESACA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

			SED. SUSP. SIEVE DIAM.	SED. SUSP. SIEVE DIAM.	SED. SUSP. SIEVE DIAM.	SED. SUSP. SIEVE DIAM.	SED. SUSP. SIEVE DIAM.	SED. SUSP. SIEVE DIAM.	SED. SUSP. SIEVE DIAM.	SED. SUSP. SIEVE DIAM.
		STREAM- FLOW, INSTAN- TANEOUS (CFS)	% FINER THAN .062 MM	% FINER THAN .125 MM	% FINER THAN .250 MM	% FINER THAN .500 MM	% FINER THAN 1.00 MM	% FINER THAN 2.00 MM	% FINER THAN 2.00 MM	% FINER THAN .002 MM
DATE		TIME								
DEC										
	01...	1750	13200	82	90	95	98	100	--	--
	01...	1755	13200	82	--	--	--	--	--	--
	05...	1550	15400	70	--	--	--	--	--	--
	05...	1555	15400	80	85	92	98	100	--	--
	07...	1320	12500	83	--	--	--	--	--	--
APR										
	07...	1240	12700	71	77	81	84	89	94	100
MAY										
	19...	1620	5960	82	--	--	--	--	--	--
	19...	1625	5960	82	90	96	98	100	--	--
	24...	1715	13100	78	--	--	--	--	--	--
	26...	1035	7870	86	--	--	--	--	--	--

			BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.	BED MAT. SIEVE DIAM.
		STREAM- FLOW, INSTAN- TANEOUS (CFS)	% FINER THAN .062 MM	% FINER THAN .125 MM	% FINER THAN .250 MM	% FINER THAN .500 MM	% FINER THAN 1.00 MM	% FINER THAN 2.00 MM	% FINER THAN 4.00 MM	% FINER THAN 8.00 MM	% FINER THAN 16.0 MM	% FINER THAN 32.0 MM
DATE		TIME										
APR												
	06...	1340	11600	--	--	<1	6	57	93	99	100	--
	06...	1341	11600	--	<1	<1	3	38	77	92	98	100
	06...	1342	11600	<1	<1	<1	1	8	49	84	93	100
	06...	1343	11600	<1	1	6	7	20	61	79	84	86
MAY												
	18...	1420	3860	<1	<1	1	19	82	99	100	--	--
	18...	1421	3860	<1	<1	<1	13	69	95	99	99	100
	18...	1422	3860	<1	<1	2	16	64	94	99	100	--
	18...	1423	3860	--	<1	<1	10	42	79	94	99	100
	18...	1424	3860	<1	<1	<1	7	44	77	91	99	100

02387500 OOSTANAULA RIVER AT RESACA, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1962 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	21.5	20.5	17.0	15.5	---	---	---	---	9.0	8.0	9.5	8.0
2	21.5	20.0	17.0	16.0	---	---	---	---	10.5	9.0	10.0	9.0
3	21.5	20.5	17.5	17.0	---	---	9.5	9.0	10.5	8.5	11.0	10.0
4	21.5	21.0	17.0	15.0	---	---	9.0	8.5	8.5	7.0	12.0	11.0
5	22.5	21.0	15.0	13.0	16.0	15.5	8.5	8.0	7.0	6.5	13.0	12.0
6	22.5	21.5	13.0	12.0	15.5	14.0	8.5	8.0	6.5	6.0	15.0	13.5
7	22.5	22.0	12.0	11.5	14.0	12.0	8.5	8.0	6.0	6.0	15.0	15.0
8	22.0	22.0	11.5	11.0	12.0	12.0	8.5	8.0	6.0	5.5	14.5	14.0
9	22.5	22.0	12.5	11.5	12.0	12.0	8.5	8.5	6.5	6.0	14.0	12.5
10	23.5	22.5	13.0	12.0	12.0	11.5	8.5	8.5	7.0	6.5	12.5	10.0
11	23.5	22.0	14.0	13.0	11.5	10.0	9.5	8.5	7.5	7.0	10.0	8.5
12	22.0	20.5	14.5	14.0	10.0	8.5	9.0	7.5	7.5	7.0	8.5	8.0
13	20.5	19.5	14.5	12.5	8.0	6.0	7.5	7.0	7.5	7.0	8.5	7.5
14	19.5	18.5	12.0	11.5	7.5	6.0	7.5	7.0	8.0	7.5	10.0	8.5
15	19.0	18.5	11.5	10.5	9.5	7.5	7.5	6.5	8.0	7.5	11.0	10.0
16	19.0	18.0	10.5	9.5	---	---	6.5	5.5	8.0	8.0	12.0	11.5
17	18.0	17.5	---	---	---	---	5.5	5.0	9.0	8.0	12.0	12.0
18	17.5	17.0	---	---	---	---	5.0	4.5	9.0	8.5	12.0	12.0
19	17.5	16.5	---	---	---	---	5.0	4.0	9.0	8.5	13.0	12.0
20	18.5	17.5	---	---	---	---	4.5	4.5	9.5	9.0	12.5	12.0
21	18.5	17.5	---	---	---	---	5.0	4.5	10.0	9.0	12.5	11.0
22	17.5	16.5	---	---	---	---	5.5	4.5	10.5	10.0	11.0	10.0
23	16.5	16.0	---	---	---	---	6.0	5.5	11.0	10.5	10.5	9.5
24	16.0	15.5	---	---	---	---	6.0	6.0	11.0	11.0	10.0	9.0
25	15.0	14.5	---	---	---	---	6.5	6.0	11.0	10.0	9.5	8.5
26	14.5	14.0	---	---	---	---	6.5	6.5	10.0	9.0	9.5	9.0
27	15.0	14.0	---	---	---	---	7.0	6.5	9.0	8.5	11.0	9.0
28	15.5	14.5	---	---	---	---	7.0	6.5	8.5	8.0	11.5	10.5
29	15.5	15.0	---	---	---	---	7.5	7.0	---	---	10.5	10.0
30	16.0	14.5	---	---	---	---	8.0	7.5	---	---	10.5	10.0
31	16.0	15.0	---	---	---	---	8.0	7.5	---	---	11.0	10.0
MONTH	23.5	14.0	17.5	9.5	16.0	6.0	9.5	4.0	11.0	5.5	15.0	7.5
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.5	10.5	18.0	16.5	18.0	17.5	22.5	21.5	24.5	24.0	25.0	24.0
2	12.0	11.5	19.0	17.5	18.5	17.5	22.5	21.5	25.5	24.0	24.5	23.0
3	11.5	11.5	19.0	16.5	19.0	18.0	23.5	22.5	24.5	24.0	23.5	23.0
4	12.0	11.0	17.0	16.5	19.0	18.5	23.5	23.0	25.0	24.0	24.0	23.0
5	12.0	11.5	17.0	16.0	20.0	19.0	23.5	22.5	25.0	24.5	25.0	23.5
6	13.0	12.0	16.5	15.5	21.5	20.0	23.0	22.0	25.0	24.5	25.5	24.0
7	13.5	13.0	18.0	16.5	21.0	18.0	23.0	22.0	25.0	24.5	24.5	24.0
8	14.5	13.5	18.5	18.0	18.5	18.0	23.0	22.0	26.0	25.0	25.0	24.0
9	15.5	14.5	19.0	17.5	19.5	18.0	23.0	22.5	26.5	25.5	25.0	24.0
10	15.5	14.5	18.0	17.0	20.0	18.5	23.5	22.0	26.0	25.0	25.5	24.5
11	14.5	13.5	18.0	17.0	20.0	19.5	24.5	22.5	26.0	25.0	26.0	25.0
12	14.0	13.0	18.0	17.0	20.5	19.5	24.5	23.0	26.5	25.5	25.5	25.0
13	14.5	13.5	18.5	17.5	21.0	19.5	24.5	23.5	26.0	24.5	23.0	24.0
14	14.5	14.0	19.5	18.0	21.5	20.0	24.5	23.5	26.0	24.5	24.5	23.5
15	15.0	14.0	19.0	18.5	21.0	20.0	24.5	23.5	26.0	24.5	23.5	23.0
16	14.5	13.0	19.0	18.5	21.0	20.0	24.5	23.0	25.5	24.5	23.5	22.5
17	14.0	13.0	19.0	18.0	21.5	21.0	24.0	23.5	35.0	24.0	23.5	23.0
18	14.0	12.5	18.0	17.0	21.0	20.5	24.5	23.0	25.5	24.0	24.0	23.0
19	12.5	11.5	17.5	17.0	21.5	20.5	25.5	24.0	26.5	25.0	24.5	23.5
20	12.0	11.0	17.5	17.0	22.0	21.0	25.5	24.0	27.0	25.0	24.0	24.0
21	12.5	11.0	18.5	17.5	21.5	21.0	26.0	23.5	27.5	26.0	24.0	21.5
22	12.5	11.5	19.0	13.5	22.0	21.5	26.0	24.5	27.5	26.0	21.5	20.0
23	12.0	12.0	19.5	19.0	21.5	21.0	26.5	24.5	28.0	26.0	20.5	19.0
24	12.5	12.0	19.5	19.0	22.5	21.0	26.5	24.5	27.5	26.0	20.0	19.0
25	13.0	12.0	18.5	18.0	22.5	22.0	26.0	24.5	27.0	26.0	20.0	18.5
26	13.5	12.5	18.5	17.5	22.5	22.0	27.0	25.0	26.5	26.0	20.5	19.5
27	14.5	13.0	17.5	16.5	23.0	22.0	26.0	24.5	26.5	25.0	20.0	19.0
28	15.5	14.0	18.0	16.5	23.0	22.5	26.5	24.5	26.0	24.5	20.5	19.0
29	16.0	15.0	18.5	17.5	24.5	23.5	26.0	24.0	26.5	24.5	21.0	19.5
30	17.0	15.5	19.5	18.5	23.0	22.5	25.5	24.0	26.5	24.5	20.5	19.5
31	---	---	19.0	18.0	---	---	25.0	24.0	25.5	24.5	---	---
MONTH	17.0	10.5	19.5	15.5	24.5	17.5	27.0	21.5	28.0	24.0	26.0	18.5
YEAR	28.0	4.0										

MOBILE RIVER BASIN

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02387502 OOSTANAULA RIVER BELOW RESACA, GA.

LOCATION.--Lat 34°34'17", long 84°56'49", Gordon County, Hydrologic Unit 03150103, at bridge on Interstate Highway 75, 0.4 mi west of Resaca, and 0.4 mi upstream from Camp Creek.

DRAINAGE AREA.--1,600 mi², revised.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Carters Lake and Carters re-regulation reservoir. (See "Lakes and Reservoirs in Mobile River Basin", stations 02381400 and 02382400.) Discharge obtained from gaging station 02387500, Oostanula River at Resaca, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANECUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LA2 (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 27...	1100	1120	56	96	7.4	7.5	14.0	14.0	8.4	83
NOV 30...	1100	7790	87	88	6.8	7.2	12.5	10.0	9.6	82
DEC 22...	1800	5130	72	69	7.2	7.4	10.0	12.5	10.6	96
JAN 27...	1030	2750	94	90	7.5	7.3	7.0	7.0	11.3	95
FEB 24...	0930	4690	110	111	7.5	7.6	11.0	10.0	9.8	92
MAR 30...	1015	4360	75	77	7.4	7.4	10.0	7.5	10.6	96
APR 27...	1130	3860	75	78	--	7.4	13.0	--	10.0	96
MAY 24...	1950	13100	65	69	7.1	6.9	19.0	24.0	7.4	81
JUN 29...	1230	2210	115	117	7.4	7.4	24.0	29.0	6.5	78
JUL 27...	1315	1270	106	108	7.4	7.3	25.5	33.5	6.2	77
AUG 31...	1030	695	110	104	7.5	7.5	25.5	31.0	6.6	82
SEP 28...	0945	797	93	99	7.5	7.7	19.0	18.5	7.7	85

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	ALKA- LITY LAB (MG/L AS CACO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 27...	9	.7	50	34	4.0	30	.32	.050	.230	--
NOV 30...	58	2.4	4300	34	4.0	30	.27	.040	.220	11
DEC 22...	11	--	--	38	13	25	.24	.040	.090	5.4
JAN 27...	10	1.0	40	38	5.0	33	.28	.050	.150	1.3
FEB 24...	54	1.5	2300	46	4.0	42	.26	.050	.200	6.9
MAR 30...	15	1.6	--	30	2.0	28	.25	.040	.120	2.1
APR 27...	15	.7	220	26	.00	27	.07	.040	.060	2.7
MAY 24...	21	--	250	28	4.0	24	.16	.060	.110	4.7
JUN 29...	17	1.1	170	44	2.0	42	.31	.380	.640	3.2
JUL 27...	14	1.1	230	44	9.0	35	.36	.050	.440	4.4
AUG 31...	9	1.5	170	38	--	--	.25	.040	.360	2.5
SEP 28...	7	1.1	20	32	.00	34	.23	<.020	.310	2.8

MOBILE RIVER BASIN

02388300 HEATH CREEK NEAR ROME, GA.

LOCATION.--Lat 34°21'57", long 85°16'17", Floyd County, Hydrologic Unit 03150103, on upstream left wingwall of bridge on county road, 4 mi upstream from Little Armuchee Creek, and 9.5 mi northwest of Rome.

DRAINAGE AREA.--14.7 mi².

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

REVISED RECORDS.--WRD GA-80-1: Drainage area. WRD GA-82-1: 1981.

GAGE.--Water-stage recorder. Datum of gage is 643.15 ft, National Geodetic Vertical Datum of 1929 (levels by Georgia Power Company).

REMARKS.--Records good except those of no gage-height record, Dec. 3-6 and Dec. 11 to Mar. 2, which are fair.

AVERAGE DISCHARGE.--15 years, 27.5 ft³/s, 25.40 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 10.03 ft Mar. 4, 1979 (discharge not determined); minimum daily discharge, 1.2 ft³/s Aug. 31 to Sept. 6, 1977, Oct. 5-7, 11, 13-21, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 28	2130	*700	6.90	Feb. 2	0430	430	5.40
Dec. 1	1600	528	6.04	May 19	1430	435	5.43
Dec. 5	unknown	unknown	unknown				

Minimum daily discharge, 1.8 ft³/s Aug. 23-28, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	2.1	413	27	40	26	40	15	12	8.3	3.1	2.3
2	2.6	2.1	246	67	300	20	48	13	11	6.6	3.0	3.7
3	2.6	10	83	67	100	17	39	13	10	6.9	2.8	4.6
4	2.8	9.7	75	55	70	16	33	12	17	6.0	2.8	2.6
5	3.0	4.9	390	41	55	21	64	10	10	5.9	2.7	2.3
6	2.9	4.0	175	33	120	107	207	9.5	10	5.6	2.6	3.4
7	3.4	3.5	80	29	90	60	102	8.8	11	5.2	2.3	4.9
8	4.8	3.3	56	25	70	47	171	2.6	9.3	5.2	2.2	3.2
9	3.6	3.1	44	23	56	36	245	7.9	8.0	5.1	2.1	2.8
10	3.4	2.9	34	21	56	30	126	7.7	7.3	4.6	2.0	2.6
11	3.0	2.8	110	19	65	25	85	7.9	6.7	3.9	2.4	2.3
12	4.2	4.2	190	18	55	21	61	7.8	6.3	3.6	2.3	2.2
13	12	5.1	85	16	44	19	48	7.3	6.4	3.8	2.3	5.6
14	4.4	3.7	55	15	38	17	60	7.2	6.3	3.6	2.0	7.5
15	3.0	3.3	90	14	33	16	45	10	5.8	3.7	2.0	2.9
16	2.6	3.1	160	13	29	15	37	6.9	5.8	3.6	2.2	2.5
17	2.5	6.6	80	12	26	18	32	21	6.0	3.1	2.1	2.5
18	2.3	44	55	11	23	27	32	14	7.3	3.0	2.0	2.3
19	2.3	33	45	10	21	18	26	250	32	3.0	1.9	2.4
20	2.2	26	35	10	19	29	22	180	13	5.7	1.9	2.6
21	2.5	16	30	16	17	50	19	108	9.9	7.2	1.9	3.4
22	2.4	22	26	24	30	37	17	97	9.4	4.6	1.9	2.9
23	2.3	16	23	22	60	32	35	86	8.5	3.9	1.8	2.5
24	2.1	13	23	21	40	45	57	54	7.5	3.7	1.8	2.4
25	2.1	10	29	20	32	42	40	38	6.8	3.6	1.8	2.4
26	2.1	9.2	22	19	27	50	33	30	6.6	3.4	1.8	2.2
27	2.1	8.6	20	21	24	184	27	22	11	3.3	1.8	2.3
28	2.1	233	55	20	25	102	22	17	11	3.1	1.8	2.2
29	2.0	538	45	18	---	68	18	16	7.7	2.9	1.9	2.2
30	2.0	140	37	18	---	52	16	14	6.6	2.9	1.8	2.2
31	1.9	---	30	17	---	53	---	13	---	2.9	2.1	---
TOTAL	93.8	1183.2	2841	742	1565	1300	1807	1175.2	286.2	140.1	67.1	90.1
MEAN	3.03	39.4	91.6	23.9	55.9	41.9	60.2	37.9	9.54	4.52	2.16	3.00
MAX	12	538	413	67	300	184	245	250	32	3.6	3.1	7.5
MIN	1.9	2.1	20	10	17	15	16	7.2	5.8	2.9	1.8	2.2
CFSM	.21	2.68	6.23	1.63	3.80	2.85	4.10	2.53	.65	.31	.15	.20
IN.	.24	2.99	7.19	1.88	3.96	3.29	4.57	2.97	.72	.35	.17	.23
CAL YR 1982	TOTAL	14911.4	MEAN 40.9	MAX 635	MIN 1.8	CFSM 2.78	IN 37.73					
WTR YR 1983	TOTAL	11290.7	MEAN 30.9	MAX 538	MIN 1.8	CFSM 2.10	IN 28.57					

02388320 HEATH CREEK BELOW ROCKY MOUNTAIN DAMSITE, NEAR ARMUCHEE, GA.

LOCATION.--Lat 34°21'18", long 85°15'50", Floyd County, Hydrologic Unit 03150103, on right bank 0.6 mi downstream from bridge on Antioch Road, 3.4 mi upstream from Little Armuchee Creek, and 9.7 mi northwest of Rome.

DRAINAGE AREA.--16.6 mi².

PERIOD OF RECORD.--March 1982 to current year.

GAGE.--Water-stage recorder. Datum of gage is 637.00 ft, National Geodetic Vertical Datum of 1929 (levels by Georgia Power Company).

REMARKS.--Records good except those affected by beaverdam, Oct. 6 to Nov. 2, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 864 ft³/s Nov. 28, 1983, gage height, 7.55 ft; minimum daily discharge, 1.9 ft³/s Aug. 24-28, 30, 1983.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 28	2215	*864	7.55	Feb. 2	0315	529	5.85
Dec. 1	0915	647	6.50	Apr. 6	0100	416	5.17
Dec. 5	1030	575	6.11	May 19	1245	545	5.94

Minimum daily discharge, 1.9 ft³/s Aug. 24-28, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	2.8	501	31	44	29	44	20	15	12	3.6	2.6
2	3.4	2.8	237	32	393	25	53	17	13	12	3.6	4.2
3	3.5	12	101	32	127	22	42	13	11	9.5	3.4	6.0
4	3.9	12	91	59	82	20	36	17	22	8.1	3.4	2.9
5	4.1	2.9	417	46	62	24	77	15	14	7.3	3.4	2.7
6	4.1	6.3	209	39	142	124	256	13	14	7.3	3.2	3.6
7	4.5	5.1	95	33	112	66	114	12	15	6.5	3.0	5.7
8	7.0	4.3	56	29	34	50	214	11	13	6.3	2.7	3.6
9	5.0	4.0	49	27	66	39	311	11	11	6.1	2.8	3.2
10	4.5	3.8	40	26	66	33	147	10	9.7	5.6	2.8	2.9
11	4.0	3.5	107	25	73	29	98	10	9.0	4.8	2.9	2.5
12	5.0	6.7	226	22	56	27	73	10	8.1	4.6	2.7	2.4
13	15	8.8	100	19	48	25	56	9.5	7.6	4.4	2.8	6.4
14	6.5	5.5	69	13	43	23	70	9.1	7.1	4.4	2.4	8.4
15	4.0	4.7	93	17	36	21	52	13	6.5	4.4	2.3	3.1
16	3.6	4.3	153	16	32	20	44	78	6.3	4.3	2.3	2.7
17	3.3	16	94	15	29	22	39	27	6.5	4.0	2.3	2.6
18	3.1	46	67	14	26	31	38	19	8.1	3.9	2.2	2.5
19	3.0	33	56	13	25	24	34	309	33	3.3	2.1	2.5
20	3.0	27	43	13	22	34	30	223	18	6.1	2.1	2.7
21	3.3	20	36	19	20	55	28	124	13	8.6	2.0	3.6
22	3.1	24	31	28	32	40	26	114	12	5.3	2.0	3.2
23	3.0	19	22	27	72	34	40	100	11	4.7	2.0	2.7
24	2.8	15	28	26	47	50	60	61	9.2	4.4	1.9	2.6
25	2.8	12	34	24	38	45	41	42	3.3	4.2	1.9	2.5
26	2.7	10	27	22	31	53	34	33	8.6	4.0	1.9	2.4
27	2.7	9.4	26	25	28	234	30	26	14	3.8	1.9	2.5
28	2.7	272	60	23	28	117	27	23	14	3.6	1.9	2.6
29	2.6	586	53	21	---	78	24	21	9.9	3.4	2.0	2.7
30	2.6	165	42	22	---	59	22	19	8.4	3.4	1.9	2.9
31	2.6	---	36	19	---	60	---	16	---	3.5	2.1	---
TOTAL	124.6	1361.9	3300	882	1864	1517	2160	1432.9	356.3	174.8	77.4	100.9
MEAN	4.02	45.4	106	28.5	66.6	48.9	72.0	46.2	11.9	5.64	2.50	3.36
MAX	15	536	501	32	393	234	311	309	33	12	3.6	5.4
MIN	2.6	2.8	26	13	20	20	22	9.1	6.3	3.4	1.9	2.4
CFSM	.24	2.74	6.39	1.72	4.01	2.95	4.34	2.72	.72	.34	.15	.20
IN.	.28	3.05	7.39	1.98	4.18	3.40	4.84	3.21	.80	.39	.17	.23

WTR YR 1983 TOTAL 13351.8 MEAN 36.6 MAX 586 MIN 1.9 CFSM 2.21 IN 29.92

MOBILE RIVER BASIN

02388500 OOSTANAULA RIVER NEAR ROME, GA.

LOCATION.--Lat 34°18'02", long 85°08'30", Floyd County, Hydrologic Unit 03150103, on left bank 1.2 mi upstream from Dry Creek, 4.5 mi north of Rome, 4.5 mi upstream from confluence with Etowah River, and 6.5 mi downstream from Armuchee Creek.

DRAINAGE AREA.--2,120 mi².

PERIOD OF RECORD.--October 1939 to current year, in reports of the U.S. Geological Survey. Gage-height records collected at site 4.2 mi downstream since 1890 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 561.70 ft, National Geodetic Vertical Datum of 1929. Oct. 1, 1939, to Dec. 7, 1950, water-stage recorder at site 3.2 mi downstream at same datum. Since Oct. 1, 1939, auxiliary water-stage recorder at Fifth Avenue Bridge, 4.2 mi 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 since 1975. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400.) Records of chemical analyses for the water years 1968-74, are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--44 years, 3,660 ft³/s, 23.44 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,000 ft³/s Jan. 23, 1947; maximum gage height, 35.13 ft Jan. 22, 1947; minimum daily discharge, 408 ft³/s Oct. 25, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1834, 40.3 ft in April 1886, at site of present auxiliary gage, from information by Georgia Department of Archives.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,500 ft³/s Dec. 2; maximum gage height, 27.05 ft Apr. 10 (backwater from Etowah River); minimum daily discharge, 607 ft³/s Oct. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	810	769	15300	5170	2990	3150	5040	3740	3730	2650	991	861
2	733	917	21600	5960	11300	3200	5230	3470	3650	2370	1010	903
3	630	1410	19900	7690	16200	3070	5450	3140	3470	2750	1160	1010
4	607	2650	16900	3160	15300	2940	4790	3330	3590	2570	1210	1140
5	709	3870	17600	6690	14000	3000	4380	3250	4280	2330	1260	1090
6	736	3760	20000	5300	11700	4270	12700	3040	4600	2550	1260	978
7	728	2820	20300	4770	10000	3160	15600	3060	3830	2390	1270	979
8	758	2070	16500	4500	9500	6030	15400	2770	3780	2310	1250	1240
9	793	1880	12500	4150	7670	6130	17800	2490	3990	2080	1140	1210
10	785	1970	7740	3600	6390	4980	20600	2400	3870	1750	1020	1180
11	770	1310	7360	3490	6640	4290	20300	2510	3480	1580	986	1110
12	830	1300	12900	3540	7120	4080	18000	2440	2950	1490	1100	1040
13	1220	1930	15100	3290	6890	3730	12600	2300	2720	1520	985	1060
14	3560	2000	14200	3080	5850	3260	7950	2060	2480	1460	958	1170
15	4160	2020	13100	2920	5140	3010	7200	2020	2040	1400	982	1300
16	3160	1890	12800	2510	4430	2970	6590	3730	1910	1370	935	1280
17	2290	1820	12300	2160	4180	2930	5260	5190	1920	1380	1000	1250
18	1780	2930	12300	2130	3810	3060	4320	4640	1950	1330	1000	1240
19	1700	5390	10600	2370	3770	3200	4200	6050	2920	1250	946	1140
20	1670	5100	7700	2380	3630	2990	3940	11700	4010	1120	937	1180
21	1630	3780	6720	2510	3310	4200	3840	15700	3210	1150	772	1050
22	1480	2960	6140	4370	3250	4530	3660	16100	2740	1100	697	953
23	1440	2760	5650	5470	4140	4260	4020	16100	2570	1250	725	1040
24	1200	2620	5210	4750	5000	4040	5870	15200	2690	1100	759	1100
25	1090	2540	4260	3950	4960	4360	6530	14500	2330	1070	845	978
26	1180	2390	4370	3670	4150	4270	5710	12300	2230	1160	614	910
27	1210	2330	3920	3510	3690	7300	4910	3560	2070	1330	736	952
28	1180	2720	4020	3460	3240	9780	4260	6670	1870	1220	711	796
29	1150	11900	5330	3500	---	7950	3950	4980	1770	1100	727	778
30	1110	12300	6230	3300	---	6300	3930	4090	2460	1030	695	740
31	864	---	5600	2980	---	5490	---	3480	---	1010	787	---
TOTAL	41968	95106	344650	125330	188250	143580	244030	191010	89100	50670	29468	31558
MEAN	1354	3170	11120	4043	6723	4632	8134	6162	2970	1635	951	1052
MAX	4160	12300	21600	8160	16200	9780	20600	16100	4600	2370	1270	1300
MIN	607	769	3920	2130	2990	2930	3660	2020	1770	1010	614	740

CAL YR 1982 TOTAL 1814073 MEAN 4970 MAX 32400 MIN 607 MEAN+ 4978 CFSM+ 2.35 IN+ 31.87
WTR YR 1983 TOTAL 1574720 MEAN 4314 MAX 21600 MIN 607 MEAN+ 4324 CFSM+ 2.04 IN+ 27.69

† ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE AND CARTERS RE-REGULATION DAM.

02388520 OOSTANAULA RIVER AT ROME, GA.

LOCATION.--Lat 34°16'13", long 85°10'24", Floyd County, Hydrologic Unit 03150103, at Southern Railway bridge at pumping station at city of Rome water works, 1.2 mi upstream from confluence with Etowah River.

DRAINAGE AREA.--2,150 mi², approximately.

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

REMARKS.--Flow regulated by Carters Lake and re-regulation dam. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400). Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Discharge obtained from gaging station 02388500, Oostanaula River near Rome, Ga.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
26...	1100	1460	110	109	7.5	7.5	13.5	13.0	8.0	78
NOV										
29...	1000	12400	64	65	6.5	6.9	13.5	13.0	8.6	85
DEC										
21...	1415	7380	85	83	7.3	7.2	8.5	13.5	9.8	85
JAN										
25...	1700	4110	110	103	7.6	7.5	6.5	8.5	10.5	86
FEB										
23...	1000	4020	99	104	7.5	7.4	11.0	13.0	9.8	92
MAR										
29...	1000	8170	86	86	7.5	7.4	10.5	7.5	9.8	89
APR										
26...	1100	5800	110	107	--	7.4	12.5	17.0	9.4	89
MAY										
24...	0915	15200	72	72	7.1	7.1	19.0	23.0	6.7	73
JUN										
28...	1300	2120	109	110	7.4	7.4	24.0	29.0	6.7	81
JUL										
26...	1400	1340	118	125	7.5	7.1	27.5	35.0	6.0	78
AUG										
30...	1115	786	142	131	7.5	7.4	27.0	35.0	6.4	82
SEP										
27...	1010	900	110	122	7.5	7.7	19.0	16.5	7.3	80

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, CON- FIRMED (MPN)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS (MG/L AS CaCO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CaCO3)	ALKA- LITY LAB (MG/L AS CaCO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
OCT									
26...	10	11	.6	1300	170	50	10	40	8
NOV									
29...	120	42	3.0	--	15000	26	7.0	19	244
DEC									
21...	14	15	--	--	--	33	8.0	30	22
JAN									
25...	17	9	1.2	--	--	44	5.0	39	17
FEB									
23...	31	11	1.5	23000	2300	44	2.0	42	37
MAR									
29...	34	11	2.0	4300	2300	34	2.0	32	34
APR									
26...	22	13	1.9	33000	3300	42	3.0	39	30
MAY									
24...	30	19	--	11000	490	22	4.0	24	33
JUN									
28...	15	5	--	9400	330	46	3.0	43	22
JUL									
26...	12	--	1.1	7900	170	50	6.0	44	18
AUG									
30...	9	--	1.1	4900	80	50	6.0	44	13
SEP									
27...	5	--	.9	1300	130	46	4.0	42	9

MOBILE RIVER BASIN

02388520 OOSTANAULA RIVER AT ROME, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 26...	.29	.060	.20	.290	--
NOV 29...	.20	.070	1.10	.340	12
DEC 21...	.36	.040	.20	.070	2.1
JAN 25...	.35	.050	.40	.100	2.4
FEB 23...	.32	.060	.30	.110	5.5
MAR 29...	.27	.040	.20	.180	4.6
APR 26...	.21	<.020	.50	.130	4.2
MAY 24...	.20	.100	.50	.140	6.7
JUN 28...	.34	.200	.40	.160	2.4
JUL 26...	.41	.050	--	.320	4.8
AUG 30...	.38	.020	--	.500	3.4
SEP 27...	.31	.090	--	.350	3.5

LOCATION.--Lat 34°15'24", long 85°10'18", Floyd County, Hydrologic Unit 03150103, at Fifth Avenue Bridge at Rome, and 0.3 mi upstream from confluence with Etowah River.

PERIOD OF RECORD.--October 1939 to current year. October 1971 to current year in reports of U.S. Geological Survey, Gage-height records since 1890 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 561.70 ft, National Geodetic Vertical Datum of 1929.

REMARKS.--Flow regulated by Carters Lake and re-regulation dam since 1975. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400).

EXTREMES FOR PERIOD OF RECORD.--Since October 1939, maximum gage height, 34.5 ft Jan. 22, 1947. From 1890 to September 1939, maximum gage height, 37.2 ft Jan. 15, 1892.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height since at least 1834, 40.3 ft in April 1886, from information by Georgia Department of Archives.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 24.04 ft Apr. 9.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.56	3.58	18.21	10.75	6.91	7.22	11.38	6.60	8.37	6.35	3.75	4.27
2	4.53	5.80	21.02	9.25	16.25	7.23	10.90	6.31	5.28	6.54	4.33	4.34
3	3.17	6.20	19.84	12.33	20.08	7.68	8.61	7.69	8.12	5.60	5.18	4.67
4	3.10	7.44	17.92	14.17	17.88	7.49	8.30	7.25	8.25	5.27	5.32	3.96
5	4.12	8.32	19.76	12.76	16.27	7.13	10.16	7.75	6.97	5.49	5.38	3.84
6	4.48	8.02	22.64	11.57	13.60	8.26	16.11	5.51	7.15	6.45	5.39	4.33
7	4.24	5.57	20.38	11.11	13.31	12.10	17.99	9.50	7.79	6.31	4.08	4.61
8	4.37	5.06	18.64	10.18	14.59	12.60	19.27	5.74	8.29	6.27	4.04	4.68
9	4.35	6.06	16.66	7.09	13.28	11.42	23.54	5.45	8.30	6.06	5.28	4.59
10	3.94	5.98	13.37	7.18	12.24	10.41	23.22	7.43	8.09	4.61	5.16	4.52
11	3.45	5.40	13.12	9.39	12.50	9.22	21.11	7.59	7.74	4.41	5.11	3.85
12	4.49	5.42	15.74	9.46	12.00	9.01	20.50	7.52	5.79	5.46	5.43	3.76
13	5.24	5.60	18.66	9.26	9.48	6.66	17.42	7.41	5.58	6.22	5.08	4.36
14	7.62	4.84	15.51	9.02	9.16	6.54	14.31	7.19	6.65	5.46	3.66	4.59
15	7.65	4.99	17.97	5.23	10.94	7.35	13.09	5.22	6.43	5.36	3.66	4.63
16	6.68	6.03	19.01	5.61	9.46	7.31	11.66	6.97	6.31	5.36	4.90	4.53
17	5.07	6.07	13.36	5.55	8.79	7.28	11.68	9.41	6.32	4.29	4.93	4.49
18	4.56	7.24	17.15	6.66	5.85	7.41	11.11	9.40	6.37	4.10	4.94	3.92
19	6.01	9.35	15.11	6.84	8.24	7.15	10.77	11.98	6.48	5.15	4.89	3.90
20	6.02	8.79	12.92	6.82	6.50	5.16	10.64	13.34	7.17	4.96	5.23	5.05
21	6.01	6.56	12.54	6.96	6.54	7.58	10.35	18.66	6.97	5.14	4.23	3.77
22	5.88	6.09	11.95	3.08	7.41	8.75	10.16	18.43	6.47	4.92	3.35	4.16
23	5.85	7.72	11.49	8.08	8.49	8.20	9.93	17.61	6.89	5.39	4.37	4.24
24	3.96	7.81	11.15	7.99	9.13	8.04	8.95	18.18	7.02	4.00	4.81	4.25
25	3.80	7.90	10.57	8.23	9.03	8.56	10.00	17.64	6.70	3.81	5.05	3.59
26	5.52	7.06	10.07	7.99	7.99	3.47	10.57	16.34	5.23	4.88	3.22	3.51
27	5.57	7.06	8.30	7.82	6.56	11.46	9.90	13.87	4.92	5.10	4.42	4.27
28	5.56	5.57	10.39	7.81	6.53	13.59	9.30	11.97	5.70	4.71	3.33	4.40
29	5.03	13.26	11.81	7.26	---	14.13	9.00	10.06	5.62	3.82	3.36	4.38
30	4.99	15.37	12.18	6.11	---	12.37	8.26	6.85	6.16	4.39	3.66	4.28
31	3.57	---	11.60	6.02	---	11.69	---	8.15	---	3.76	4.26	---
MEAN	4.95	7.00	15.48	8.57	10.76	9.06	12.94	10.32	6.87	5.17	4.52	4.26
MAX	7.65	15.37	22.64	14.17	20.08	14.13	23.54	18.66	8.37</			

02389000 ETOWAH RIVER NEAR DAWSONVILLE, GA.

LOCATION.--Lat 34°22'57", long 84°03'21", Dawson County, Hydrologic Unit 03150104, on left bank 0.4 mi upstream from Palmer Creek, 0.5 mi upstream from bridge on State Highway 53, 1.2 mi downstream from Russell Creek, 4 mi southeast of Dawsonville, and 7.5 mi upstream from Shoal Creek.

DRAINAGE AREA.--107 mi², revised.

PERIOD OF RECORD.--November 1970 to current year. Water-discharge records for water years 1940-76 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (MG/L)	PER- CENT SATUR- ATION
APR 07...	0700	625	18	20	6.9	7.0	13.0	10.2		101
SEP 07...	0700	134	20	20	7.0	6.6	22.0	7.4		88

DATE	COLOR (PLAT- INUM- COBAL- T UNITS)	TUR- BID- IDY (NTU)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY LAB (MG/L AS CACO3)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO2)
APR 07...	15	15	5	0	1.1	.6	1.3	32	.3	.6	7.0	1.7
SEP 07...	2	6.8	6	0	1.4	.6	1.7	34	.3	.9	9.0	1.7

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER DAY)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)
APR 07...	2.0	1.0	<.10	7.9	22	19	37.1	.03	<.10	<.10	<.010
SEP 07...	2.2	1.3	<.10	9.4	14	23	7.0	.02	.10	<.10	.100

DATE	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)
APR 07...	<.010	--	.20	.40	--	.020	<.010	2.0	<10	1	1
SEP 07...	<.010	1.0	1.10	.30	1.2	.060	.070	3.0	20	2	1

DATE	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	ZINC, DIS- SOLVED (UG/L AS ZN)
APR 07...	1	<10	7	57	9	4	8	<.1	<.1	<1	<3
SEP 07...	<1	<10	2	150	1	<1	12	<.1	.1	<1	14

02392000 ETOWAH RIVER AT CANTON, GA.

LOCATION.--Lat 34°14'23", long 84°29'47", Cherokee County, Hydrologic Unit 03150104, on left bank 100 ft downstream from bridge on State Highway 5 spur and 140 at Canton, 0.8 mi upstream from Canton Creek, and 1.8 mi downstream from Hickory Log Creek.
DRAINAGE AREA.--613 mi².

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). WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 844.55 ft, National Geodetic Vertical Datum of 1929. March 1892 to December 1905, nonrecording gage at site 100 ft upstream at datum 2.0 ft higher. Mar. 16, 1937, to Jan. 17, 1939, nonrecording gage at site 100 ft upstream at present datum. Water-stage recorder at Allatoona Reservoir is used as an auxiliary gage for this station.

REMARKS.--Records good.

AVERAGE DISCHARGE.--56 years (1896-1905, 1936-83), 1,249 ft³/s, 27.67 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,300 ft³/s Jan. 7, 1946, gage height, 26.7 ft; minimum, 178 ft³/s Sept. 29, 30, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, 36,700 ft³/s in January 1892, gage height, 25.0 ft, present datum, from National Weather Service.

Maximum stage known since at least 1892, that of Jan. 7, 1946.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,500 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 2	1900	6720	12.63	Apr. 9	2400	*8970	15.34

Minimum discharge, 342 ft³/s Aug. 31, gage height, 1.71.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	463	628	2660	1450	1250	1450	1890	1700	1400	1080	920	461
2	459	531	3540	2030	5240	1390	1960	1680	1340	1120	1130	746
3	449	737	2090	2290	3960	1340	2120	1680	1290	996	1040	1280
4	443	1150	1650	1900	2320	1310	1860	1750	1320	931	1060	977
5	443	951	2510	1680	1890	1320	1760	1640	1480	1000	834	962
6	439	784	5160	1580	1900	3270	2500	1540	1640	1420	758	776
7	427	730	2550	1500	2170	2840	2570	1500	1580	1020	779	918
8	1180	701	1930	1450	1950	2090	4020	1480	1470	975	733	731
9	1290	686	1650	1400	1760	1820	8380	1460	1400	960	725	632
10	847	571	1490	1360	1690	1630	7450	1450	1350	950	681	606
11	1270	656	1950	1380	1750	1320	4020	1430	1240	945	637	574
12	1270	688	5310	1350	1680	1470	3140	1400	1190	920	624	538
13	2490	1050	3040	1300	1570	1430	2760	1380	1160	905	614	575
14	3280	940	2170	1260	1540	1400	2530	1360	1130	890	578	623
15	1560	797	1870	1250	1540	1380	2470	1350	1100	870	547	592
16	1160	746	2460	1220	1460	1360	2360	1760	1090	855	530	520
17	973	728	2280	1200	1420	1340	2180	1820	1080	845	523	492
18	873	891	1910	1190	1380	1370	2120	1470	1160	840	518	477
19	818	1180	1830	1160	1350	1350	2100	2380	1290	860	522	460
20	782	1130	1820	1150	1330	1360	1990	4700	1260	880	486	475
21	820	999	1650	1250	1290	2280	1920	2950	1150	920	459	916
22	780	1040	1550	1730	1430	1930	1880	2350	1080	861	435	1070
23	723	1140	1470	1730	2680	1610	1910	2400	1100	805	418	711
24	698	1010	1440	1550	2070	1600	2450	2030	1080	792	405	583
25	682	959	1420	1420	1740	1870	2270	1810	1020	865	414	532
26	674	884	1400	1340	1560	1730	1990	1680	979	925	435	501
27	656	853	1360	1320	1460	4120	1890	1610	954	845	418	494
28	650	874	1520	1330	1420	3770	1830	1560	1040	800	395	510
29	644	1770	2090	1270	---	2420	1790	1520	1220	750	374	499
30	635	1870	1710	1260	---	2040	1740	1500	1100	720	357	476
31	634	---	1530	1250	---	1970	---	1450	---	710	364	---
TOTAL	28572	27384	67010	44600	52870	57760	79850	55790	36753	28253	18763	19707
MEAN	922	929	2162	1439	1888	1863	2662	1800	1225	911	605	657
MAX	3280	1870	5310	2290	5240	4120	8380	4700	1640	1420	1180	1280
MIN	439	628	1360	1150	1250	1300	1740	1350	934	710	357	460
CFSM	1.50	1.52	3.53	2.35	3.08	3.04	4.34	2.94	2.00	1.49	.99	1.07
IN.	1.73	1.69	4.07	2.71	3.21	3.51	4.85	3.39	2.23	1.71	1.14	1.20
CAL YR 1982	TOTAL	528603	MEAN	1448	MAX	19400	MIN	439	CFSM	2.36	IN	32.08
WTR YR 1983	TOTAL	517214	MEAN	1419	MAX	8380	MIN	357	CFSM	2.32	IN	31.42

MOBILE RIVER BASIN

02392000 ETOWAH RIVER AT CANTON, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.99	2.32	6.35	3.80	3.46	3.91	4.83	4.48	3.85	3.22	2.64	1.96
2	1.98	2.32	8.05	4.96	10.44	3.82	4.99	4.42	3.75	3.30	3.22	2.55
3	1.96	2.53	5.24	5.48	3.57	3.71	5.31	4.42	3.65	3.05	2.95	3.62
4	1.94	3.39	4.37	4.71	5.61	3.65	4.79	4.56	3.81	2.92	2.99	3.02
5	1.94	2.96	6.01	4.27	4.76	3.64	4.58	4.35	4.02	3.06	2.55	2.98
6	1.93	2.63	10.55	4.06	4.77	7.42	6.06	4.15	4.34	3.91	2.41	2.61
7	2.03	2.52	6.16	3.91	5.30	6.70	6.20	4.05	4.22	3.09	2.45	2.90
8	3.42	2.46	4.92	3.80	4.37	5.21	8.55	4.02	4.00	2.86	2.37	2.52
9	3.65	2.43	4.36	3.71	4.53	4.68	14.70	3.97	3.86	2.78	2.36	2.33
10	2.75	2.40	4.04	3.64	4.36	4.30	13.54	3.95	3.75	2.71	2.28	2.27
11	3.60	2.37	4.97	3.68	4.47	4.09	8.92	3.92	3.54	2.65	2.20	2.21
12	3.60	2.44	10.80	3.63	4.34	3.99	7.33	3.86	3.44	2.60	2.18	2.14
13	5.98	3.17	7.07	3.51	4.14	3.91	6.58	3.62	3.37	2.57	2.17	2.21
14	7.51	2.94	5.30	3.45	4.08	3.86	6.13	3.79	3.32	2.54	2.10	2.31
15	4.19	2.65	4.71	3.42	4.07	3.81	5.01	3.76	3.26	2.50	2.04	2.25
16	3.39	2.55	5.78	3.38	3.91	3.77	5.78	4.57	3.24	2.47	2.02	2.10
17	3.01	2.52	5.43	3.34	3.84	3.75	5.42	4.69	3.22	2.46	2.01	2.04
18	2.81	2.84	4.69	3.31	3.77	3.80	5.31	4.00	3.37	2.45	2.01	2.01
19	2.70	3.42	4.52	3.26	3.70	3.76	5.26	5.76	3.65	2.46	2.03	1.98
20	2.62	3.31	4.50	3.24	3.66	3.79	5.04	9.92	3.57	2.52	1.95	2.01
21	2.70	3.06	4.18	3.44	3.59	5.62	4.91	6.95	3.35	2.60	1.91	2.89
22	2.62	3.14	3.97	4.50	3.97	4.92	4.83	5.77	3.22	2.48	1.87	3.20
23	2.51	3.35	3.83	4.41	6.38	4.28	4.87	5.86	3.26	2.37	1.83	2.48
24	2.46	3.08	3.76	4.05	5.15	4.26	5.96	5.12	3.23	2.34	1.81	2.23
25	2.42	2.98	3.72	3.78	4.48	4.81	5.60	4.67	3.11	2.49	1.84	2.13
26	2.41	2.83	3.67	3.63	4.14	4.52	5.05	4.43	3.02	2.62	1.91	2.06
27	2.37	2.77	3.61	3.59	3.95	8.86	4.83	4.27	2.97	2.45	1.87	2.05
28	2.36	2.81	3.94	3.61	3.85	9.41	4.72	4.19	3.13	2.36	1.82	2.08
29	2.35	4.60	5.06	3.49	---	5.90	4.64	4.11	3.50	2.26	1.78	2.06
30	2.33	4.80	4.31	3.48	---	5.14	4.55	4.05	3.26	2.20	1.75	2.01
31	2.33	---	3.95	3.46	---	5.00	---	3.96	---	2.17	1.75	---
MEAN	2.90	2.92	5.22	3.81	4.72	4.75	6.18	4.64	3.51	2.66	2.16	2.37
MAX	7.51	4.80	10.80	5.48	10.44	8.86	14.70	9.92	4.34	3.91	3.22	3.62
MIN	1.93	2.32	3.61	3.24	3.46	3.64	4.55	3.76	2.97	2.17	1.75	1.96
CAL YR 1982	MEAN	3.81	MAX	22.38	MIN	1.93						
WTR YR 1983	MEAN	3.81	MAX	14.70	MIN	1.75						

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.

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

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 26.0°C July 24, 1972; minimum recorded, 2.5°C Dec. 26, 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
25...	0645	685	37	37	7.2	7.1	10.5	2.5	10.3	95
JAN										
25...	0900	1420	31	29	7.2	6.9	5.5	.0	11.3	91
APR										
26...	0700	2020	29	31	--	7.0	12.0	7.0	10.2	97
JUN										
28...	0615	960	31	31	7.1	7.3	22.5	25.0	8.0	94
JUL										
26...	0615	970	35	37	7.2	6.8	25.0	25.0	7.1	89

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINEITY LAB (MG/L AS CACO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT								
26...	7	.4	20	14	.17	.120	<.020	--
JAN								
25...	7	2.4	--	9.0	.25	.040	<.020	.5
APR								
26...	13	.4	130	10	.16	<.020	.020	1.6
JUN								
28...	13	--	490	12	.17	.120	.020	1.3
JUL								
26...	22	.8	330	13	.23	.030	.040	3.3

MOBILE RIVER BASIN

02394000 ETOWAH RIVER AT ALLATOONA DAM, ABOVE CARTERSVILLE, GA.

LOCATION.--Lat 34°09'47", long 84°44'28", Bartow County, Hydrologic Unit 03150104, on right bank 0.8 mi downstream from Allatoona Dam, 2 mi upstream from Nashville, Chattanooga, & St. Louis Railway bridge, and 3 mi east of Cartersville.
DRAINAGE AREA.--1,120 mi².

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. WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 686.92 ft, National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers). Prior to Dec. 19, 1938, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow regulated by Allatoona Reservoir since December 1949. (See "Lakes and Reservoirs in Mobile River Basin," station 02393500.)

AVERAGE DISCHARGE.--45 years, 1,926 ft³/s, 23.35 in/yr, adjusted for storage since 1950.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,400 ft³/s Jan. 8, 1946, gage height, 20.8 ft, from rating curve extended above 26,000 ft³/s; minimum daily, 152 ft³/s Oct. 15, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,040 ft³/s Jan. 19, gage height, 7.38 ft; minimum daily, 296 ft³/s Sept. 4, 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	2080	3320	1730	468	1760	2560	5370	352	3230	1800	1080	1220		
2	326	3360	858	343	1740	2560	349	2690	3250	331	2320	1220		
3	331	3350	2300	5660	2400	2550	346	1910	3240	328	2330	300		
4	1580	3360	3500	5640	3820	2600	4270	2660	359	934	2330	296		
5	2020	3370	3570	5580	343	363	4320	3870	355	2160	2330	1130		
6	1610	319	1100	5730	342	366	4220	4640	1740	2140	316	1130		
7	1610	323	2860	5760	5130	3060	4250	353	2710	2140	316	1110		
8	1590	2410	5440	343	5170	4150	2280	360	2710	2130	2340	1120		
9	1040	2450	5450	343	5190	4170	346	3550	2720	323	2360	1110		
10	331	1590	5500	4760	5210	4170	339	3560	2710	324	2350	297		
11	1670	1590	5230	4800	5230	4170	4690	3560	355	1990	2840	296		
12	1660	1610	1950	4790	346	380	3830	3540	354	3190	2330	975		
13	1670	321	4860	4780	331	368	5960	3560	2620	1960	314	956		
14	1640	313	6710	4830	3440	2420	5970	362	2610	1980	308	960		
15	1620	2410	6710	354	3480	2380	3270	357	2590	1990	2120	949		
16	316	2460	5400	348	2820	2400	5620	2280	2600	326	2120	949		
17	316	2490	6720	2500	3460	2400	5650	3390	2590	320	2120	300		
18	2790	2450	5470	2520	3500	2400	5660	3410	335	1990	2130	298		
19	2780	2460	5330	2530	370	345	5650	3440	340	1740	2800	2240		
20	2820	314	5490	2520	367	343	5640	1610	1520	2100	1380	296		
21	2820	319	5510	2530	2300	1770	5700	4390	1530	1750	306	965		
22	2840	3790	5560	353	2200	1790	5680	2360	2550	3170	1830	960		
23	320	3740	5580	351	2240	1780	346	5710	2550	320	2460	967		
24	317	4550	5680	2520	2220	1780	339	5730	2540	316	2760	305		
25	2830	3150	5200	2670	2220	1780	3490	5730	335	1750	304	306		
26	2810	3800	2020	2680	333	348	3500	5750	334	1750	1860	1420		
27	2830	310	5540	2670	330	356	3520	5760	1810	1330	302	1680		
28	2000	309	5620	2670	2640	5140	3500	4340	1770	315	304	1700		
29	2000	3790	5680	332	---	5510	3520	353	1770	1190	1200	1700		
30	321	3790	5670	340	---	5320	345	3230	1800	315	1210	1710		
31	313	---	5700	1740	---	5360	---	3240	---	316	1210	---		
TOTAL	49201	67818	142138	83455	68932	75089	107970	96047	55927	42718	50280	28865		
MEAN	1587	2261	4535	2692	2462	2422	3599	3093	1864	1378	1622	962		
MAX	2840	4550	6720	5760	5230	5510	5970	5760	3250	3190	2840	2240		
MIN	313	309	858	332	330	343	339	352	334	315	302	296		
MEAN+	1509	1553	4167	2363	3389	3370	4562	3010	1792	1009	651	1014		
CFSM+	1.35	1.39	3.72	2.11	3.03	3.01	4.07	2.69	1.60	.90	.58	.91		
INT+	1.55	1.55	4.29	2.43	3.15	3.47	4.55	3.10	1.78	1.04	.67	1.01		
CAL YR 1982	TOTAL	905433	MEAN	2481	MAX	7740	MIN	275	MEAN+	2540	CFSM+	2.27	INT+	30.78
WTR YR 1983	TOTAL	868440	MEAN	2379	MAX	6720	MIN	296	MEAN+	2359	CFSM+	2.11	INT+	28.59

+ ADJUSTED FOR CHANGE IN CONTENTS IN ALLATOONA RESERVOIR.

02394000 ETOWAH RIVER AT ALLATOONA DAM, ABOVE CARTERSVILLE, GA.--Continued

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV 29...	0730	7890	47	46	--	7.1	13.5	10.5	9.2	91
JAN 25...	1130	5300	42	39	7.3	7.0	6.5	10.0	10.3	85
MAR 29...	0730	7380	38	38	7.1	7.1	10.0	3.0	10.3	93
MAY 24...	0445	363	51	40	6.8	6.8	15.0	15.0	7.5	75
JUN 28...	0800	248	39	40	6.8	6.9	22.5	24.5	6.4	75
JUL 26...	0800	324	41	44	6.6	6.5	22.5	25.0	4.3	51
SEP 27...	0600	280	42	44	6.9	7.2	22.5	13.0	5.3	63

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY LAB (MG/L AS CAC03)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDE (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)
NOV 29...	5	.6	150	15	3	.12	.070	.020	2.5	300	60
JAN 25...	15	.9	--	13	8	.29	.110	.020	.8	840	60
MAR 29...	7	.5	<30	12	<1	.30	.040	.040	2.8	170	<50
MAY 24...	7	--	50	12	<1	.20	.080	<.020	1.8	340	<50
JUN 28...	6	--	<20	14	2	.11	.240	.020	1.1	320	70
JUL 26...	5	.1	70	16	<1	.15	.070	<.020	3.5	120	150
SEP 27...	3	.4	20	16	1	.11	.080	.070	2.1	230	70

MOBILE RIVER BASIN

02394980 ETOWAH RIVER NEAR EUHARLEE, GA.

LOCATION.--Lat 34°11'28", long 84°55'44", Bartow County, Hydrologic Unit 03150104, at Harden Bridge on county road, 1,000 ft downstream from Ashpole Creek, and 3 mi north of Euharlee.

DRAINAGE AREA.--1,610 mi², revised.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Allatoona Reservoir. (See "Lakes and Reservoirs in Mobile River Basin", station 02393500.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
26...	0900	700	75	73	7.3	7.5	17.0	7.0	8.4	88
NOV										
29...	0830	3000	85	84	--	7.3	13.5	7.5	8.7	86
DEC										
21...	0945	1700	98	95	7.5	7.3	10.0	6.0	9.2	83
JAN										
25...	1300	7000	63	59	7.5	7.3	6.5	10.5	11.5	95
FEB										
23...	0720	1600	82	85	7.5	7.4	9.5	11.5	10.6	96
MAR										
29...	0830	3200	62	61	7.4	7.4	10.0	7.0	10.4	94
APR										
26...	0830	1750	72	78	--	7.4	13.0	7.0	10.0	96
MAY										
24...	0615	2650	62	65	7.3	7.1	16.5	14.5	8.4	87
JUN										
28...	0930	770	96	94	7.4	7.4	21.5	28.0	7.8	90
JUL										
26...	0845	775	108	112	7.3	7.0	23.5	30.0	6.5	79
AUG										
30...	0745	610	91	95	7.3	7.3	25.0	24.0	6.0	74
SEP										
27...	0715	880	69	74	7.4	7.5	22.0	11.0	7.0	82

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS (MG/L AS CaCO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CaCO3)	ALKA- LINITY LAB (MG/L AS CaCO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
OCT								
26...	9	6	.6	510	26	.00	27	4
NOV								
29...	160	31	2.7	93000	30	2.0	28	282
DEC								
21...	15	9	--	--	40	6.0	34	0
JAN								
25...	21	7	1.1	--	20	.00	20	21
FEB								
23...	34	8	1.7	2300	30	.00	30	25
MAR								
29...	14	6	1.1	150	20	.00	21	23
APR								
26...	11	3	.7	80	26	.00	27	4
MAY								
24...	12	6	--	330	22	1.0	21	12
JUN								
28...	9	3	--	330	36	3.0	33	3
JUL								
26...	7	--	.5	230	48	.00	50	2
AUG								
30...	5	--	.4	230	36	5.0	31	1
SEP								
27...	4	--	.9	80	26	1.0	25	3

MOBILE RIVER BASIN

02394980 ETOWAH RIVER NEAR EUHARLEE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT					
26...	.20	.060	.10	.030	--
NOV					
29...	.27	.050	1.00	.370	10
DEC					
21...	.43	.070	.10	.030	1.6
JAN					
25...	.33	.060	.30	.040	1.1
FEB					
23...	.47	.090	.30	.060	3.3
MAR					
29...	.30	.020	.30	.040	1.6
APR					
26...	.28	.020	<.10	.030	2.8
MAY					
24...	.25	.080	.30	.030	2.1
JUN					
28...	.28	.180	--	.020	<1.0
JUL					
26...	.24	.110	--	.240	4.1
AUG					
30...	.13	.050	--	.020	<1.0
SEP					
27...	.13	.070	--	.090	1.9

02395000 ETOWAH RIVER NEAR KINGSTON, GA.

LOCATION.--Lat 34°12'24", long 84°58'44", Bartow County, Hydrologic Unit 03150104, on downstream side of center pier of bridge on U.S. Highway 411, 1 mi upstream from Two Run Creek, 1.5 mi upstream from Connesena Creek, and 2.5 mi southwest of Kingston.

DRAINAGE AREA.--1,630 mi², approximately.

WATER-DISCHARGE RECORDS

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, National Geodetic Vertical Datum of 1929 (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 upstream at same datum.

REMARKS.--Records good. Flow regulated by Allatoona Reservoir since December 1949. (See "Lakes and Reservoirs in Mobile River Basin," station 02393500.) Records of chemical analyses for the water years 1970-74 are published in reports of the U.S. Geological Survey.

AVERAGE DISCHARGE.--50 years, 2,599 ft³/s, 21.65 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,700 ft³/s Apr. 9, 1938, gage height, 27.7 ft; minimum daily, 268 ft³/s Oct. 19, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 31 ft Dec. 11, 1919, from information by local resident, discharge, 52,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,200 ft³/s May 20, gage height, 13.47 ft; minimum daily, 510 ft³/s Aug. 28.

DISCHARGE, IN CUSIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2160	2000	5930	3460	2480	3590	6240	1260	3840	2300	658	1380
2	1580	3950	3920	3110	8740	3600	3440	2100	3310	1680	2350	1580
3	574	3330	3760	6440	6430	3470	1900	3860	3780	954	2530	1340
4	1360	3940	4470	7210	5780	3380	3600	2390	2870	1030	2490	719
5	1740	3820	7090	6560	2960	2150	5110	4270	1070	2120	2510	786
6	2210	2310	7130	6390	2260	3650	5730	5150	1910	2500	1560	1460
7	1830	761	3150	6350	5160	3920	5470	2670	3210	2510	596	1720
8	1890	1800	6270	3230	6370	5320	7390	1100	3630	2500	1560	1470
9	1090	2840	6060	1360	6090	5160	10100	2360	3390	1370	2500	1380
10	1250	1650	6000	3610	6070	5000	5270	4030	3260	752	2510	1080
11	1320	1930	6440	5370	6190	4940	5200	3990	2210	1640	2990	596
12	1940	1950	8320	5400	3320	3130	5570	3990	1050	2620	2470	625
13	3150	2110	6770	5380	1440	1250	6790	4040	2070	2810	1530	1360
14	3070	839	7750	5360	3060	2240	6970	2860	2990	2640	543	1450
15	2210	1570	7560	3000	4260	3210	5170	1140	3050	2300	1740	1420
16	1470	2780	8570	1130	4220	3200	6000	2050	3050	1450	2280	1250
17	696	2820	8280	2130	3710	3180	6400	4060	3010	761	2270	1190
18	1870	3380	7010	3190	4240	3220	6790	4020	1940	1460	2270	512
19	2960	3610	4710	3190	2500	2170	6380	5490	1180	2230	2410	1840
20	2990	2320	5990	3160	1150	1170	6430	7730	2160	2490	1780	1160
21	3000	1010	6100	3220	2230	2540	6320	6580	2190	2030	1330	812
22	3000	2470	5970	2250	2880	3210	6350	3740	2300	2380	1200	1260
23	1740	4170	5970	1270	3460	2870	3290	6350	3090	2280	2530	1210
24	633	4830	5950	2780	3280	2890	1760	6410	3060	660	2800	1040
25	1660	3780	5380	3390	3150	3280	3290	6290	2360	1380	1300	540
26	2950	3900	4160	3320	2170	2740	4390	6340	913	2050	1220	579
27	2970	2620	4510	3310	1190	4240	4370	6270	1440	1850	1380	1690
28	2280	909	6310	3330	2490	5450	4270	5270	2230	907	510	1810
29	2210	4510	6810	1600	---	7070	4290	2370	2220	1120	750	1300
30	1850	5150	6410	1040	---	6180	2500	2280	2210	950	1410	1300
31	630	---	6210	1740	---	6270	---	3810	---	602	1340	---
TOTAL	60283	83059	188560	112280	107330	113690	156780	124770	75493	54226	55317	36858
MEAN	1945	2769	6083	3622	3833	3667	5226	4025	2516	1749	1784	1229
MAX	3150	5150	5570	7210	8740	7070	10100	7730	3840	2810	2990	1340
MIN	574	761	3150	1040	1150	1170	1760	1100	913	602	510	512
CAL YR 1982 TOTAL	1264934			3466	25000	551	MEAN+	3525	CFSM+	2.16	IN+	29.36
WTR YR 1983 TOTAL	1163646			3202	MAX	10100	MIN	510	MEAN+	3182	CFSM+	1.95
											IN+	26.50

+ ADJUSTED FOR CHANGE IN CONTENTS IN ALLATOONA RESERVOIR.

02395000 ETOWAH RIVER NEAR KINGSTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1969 to June 1974, April 1981 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
NOV					
02...	1210	814	--	5	11
02...	1215	814	--	4	8.8
02...	1415	2330	--	22	138
02...	1420	2330	--	24	151
02...	1440	3590	--	38	368
02...	1510	5230	--	47	664
02...	1515	5230	--	55	777
02...	1730	6950	--	62	1160
02...	1735	6950	--	51	1140
02...	1935	5620	--	36	546
02...	1940	5620	--	37	561
02...	2130	3860	--	22	229
02...	2135	3860	--	21	219
08...	1040	743	11.5	6	12
08...	1045	743	11.5	6	12
DEC					
05...	0900	4040	--	27	295
05...	0905	4040	--	29	316
05...	1315	11100	--	318	9530
05...	2000	9550	--	221	5700
05...	2005	9550	--	224	5780
05...	2200	9050	--	219	5350
05...	2205	9050	--	217	5300
JAN					
31...	1020	934	9.0	6	15
31...	1025	934	9.0	6	15
FEB					
01...	1400	2920	--	15	118
01...	1405	2920	--	14	110
MAR					
14...	1035	1250	11.0	6	20
14...	1040	1250	11.0	6	20
APR					
08...	1240	3930	--	43	456
MAY					
19...	1740	4960	--	208	2790
20...	0120	13000	--	385	13500
20...	0125	13000	--	357	12500
20...	0435	10400	--	282	7920
20...	0440	10400	--	275	7720
20...	1215	6690	--	268	4840
20...	1220	6690	--	321	5800
JUN					
06...	0840	867	22.0	6	14
06...	0845	867	22.0	5	12
JUL					
19...	0950	794	23.0	4	8.6
19...	0955	794	23.0	2	4.3
AUG					
29...	0920	409	25.5	1	1.1
29...	0925	409	25.5	2	2.2

MOBILE RIVER BASIN

02395000 ETOWAH RIVER NEAR KINGSTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM
NOV								
02...	1435	3590	54	66	78	88	95	100
02...	1440	3590	63	--	--	--	--	--
02...	1730	6950	61	--	--	--	--	--
DEC								
05...	1815	11100	72	--	--	--	--	--
05...	1820	11100	77	89	96	99	100	--
05...	2200	9050	76	--	--	--	--	--
APR								
09...	1240	3930	83	--	--	--	--	--
08...	1245	3930	91	94	98	100	--	--
MAY								
19...	1740	4960	87	--	--	--	--	--
19...	1745	4960	88	94	99	100	--	--
20...	0440	10400	88	--	--	--	--	--

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
DEC												
02...	1635	3250	--	<1	3	29	88	99	100	--	--	--
02...	1636	3250	--	--	<1	5	49	93	100	--	--	--
02...	1637	3250	--	<1	1	7	46	83	94	97	100	--
02...	1638	3250	--	1	7	17	60	95	100	--	--	--
MAR												
22...	0940	2190	--	<1	1	23	76	97	99	100	--	--
22...	0941	2190	<1	<1	5	22	39	57	79	97	100	--
22...	0942	2190	<1	<1	3	15	43	82	97	100	--	--
MAY												
19...	1815	7140	--	<1	12	33	74	94	99	99	100	--
19...	1816	7140	<1	<1	<1	3	12	22	31	44	60	100
19...	1817	7140	<1	<1	2	10	29	56	77	93	100	--
19...	1818	7140	--	1	12	25	54	84	95	99	100	--

MOBILE RIVER BASIN

291

02395120 TWO RUN CREEK NEAR KINGSTON, GA.

LOCATION.--Lat 34°14'34", long 84°53'23", Bartow County, Hydrologic Unit 03150104, on right bank 200 ft upstream from bridge on State Highway 293, 1.9 mi upstream from Limekiln Branch, and 3 mi east of Kingston.

DRAINAGE AREA.--33.1 mi².

PERIOD OF RECORD.--May 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 730 ft, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,180 ft³/s Feb. 3, 1982, gage height, 7.91 ft; minimum discharge, 7.0 ft³/s Oct. 8, 1981.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 5	1530	571	4.74	Feb. 2	0830	706	5.19
Dec. 12	0400	571	4.74	Apr. 8	1730	956	5.72
Dec. 16	0330	568	4.73	May 19	1730	*1140	5.99

Minimum daily discharge, 10 ft³/s Oct. 1-3, Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	15	218	57	43	43	72	41	34	23	16	19
2	10	14	101	126	468	39	84	39	32	23	14	32
3	10	71	65	115	146	37	74	38	31	21	14	36
4	11	52	54	88	96	36	64	37	37	21	14	19
5	11	28	381	73	78	38	71	35	32	20	13	17
6	11	23	172	64	128	173	194	34	31	19	14	25
7	12	20	81	57	109	100	115	33	35	18	15	32
8	14	17	57	52	87	81	520	32	32	18	14	20
9	13	16	46	48	76	66	617	31	29	16	13	18
10	13	16	38	45	74	58	220	30	28	17	13	17
11	13	15	186	45	79	52	136	30	26	17	13	16
12	14	16	408	41	66	48	105	29	26	17	13	15
13	32	19	140	35	60	45	87	29	24	16	12	15
14	22	16	93	37	58	43	32	29	24	16	12	14
15	16	15	126	36	54	40	92	31	24	17	12	13
16	13	14	364	35	50	38	73	73	22	16	12	13
17	13	16	129	33	48	37	65	45	22	16	11	15
18	13	37	93	32	45	39	66	37	22	16	20	14
19	12	31	86	31	43	36	61	539	58	16	22	14
20	12	26	74	31	41	43	55	327	39	16	21	15
21	13	23	64	33	39	60	51	153	40	16	21	19
22	13	23	58	41	46	45	49	103	33	16	20	16
23	12	21	52	35	61	41	55	84	28	15	19	13
24	12	20	49	33	48	59	91	66	25	15	19	13
25	12	17	50	31	44	63	67	57	23	15	19	12
26	12	17	47	31	41	78	57	51	25	16	18	12
27	12	17	44	32	39	281	52	46	22	15	17	11
28	13	34	97	31	39	133	48	41	22	14	14	11
29	12	108	92	30	---	96	45	42	22	14	13	11
30	13	55	73	30	---	80	44	39	22	14	12	10
31	13	---	63	29	---	86	---	36	---	15	17	---
TOTAL	462	812	3601	1440	2206	2114	3412	2237	870	526	477	507
MEAN	14.9	27.1	116	46.5	78.8	68.2	114	72.2	29.0	17.0	15.4	16.9
MAX	82	103	408	126	468	281	617	539	58	23	22	36
MIN	10	14	38	29	39	36	44	29	22	14	11	10
CFSM	.45	.82	3.51	1.41	2.38	2.06	3.44	2.18	.88	.51	.47	.51
IN.	.52	.91	4.05	1.62	2.48	2.33	3.83	2.51	.98	.59	.54	.57

CAL YR 1982	TOTAL	25095.7	MEAN 68.3	MAX 1740	MIN 9.7	CFSM 2.08	IN 28.20
WTR YR 1983	TOTAL	18664.0	MEAN 51.1	MAX 617	MIN 10	CFSM 1.54	IN 20.98

MOBILE RIVER BASIN

02396000 ETOWAH RIVER AT ROME, GA.

LOCATION.--Lat 34°15'26", long 85°09'30", Floyd County, Hydrologic Unit 03150104, on downstream side of center pier of Southern Railway bridge in Rome, 2 mi upstream from confluence with Oostanaula River.

DRAINAGE AREA.--1,820 mi².

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.

REVISED RECORDS.--WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 561.70 ft, National Geodetic Vertical Datum of 1929. July 1 to Dec. 31, 1903, nonrecording gage at Second Avenue Bridge, 1 mi downstream at different datum. Aug. 17, 1904, to June 30, 1921, nonrecording gage at Freemans Ferry, 5 mi upstream at different datum. Since May 15, 1939, auxiliary water-stage recorder at Second Avenue Bridge, 1 mi downstream.

REMARKS.--Records fair except those of no gage-height record, Jan. 15 to Feb. 8, Mar. 8-21, and Apr. 18 to May 2, which are poor. Flow regulated by Allatoona Reservoir since 1949. (See "Lakes and Reservoirs in Mobile River Basin," station 02393500.)

AVERAGE DISCHARGE.--61 years (1904-20, 1938-83), 2,981 ft³/s, 22.24 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,000 ft³/s Dec. 11, 1919, gage height, over 28 ft, at former site at Freemans Ferry, computed from data at upstream stations; minimum daily, 360 ft³/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, discharge, 46,500 ft³/s, from gage readings and discharge measurements by U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,700 ft³/s Apr. 9, maximum gage height, 25.04 ft Apr. 9; minimum daily discharge, 595 ft³/s Aug. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2210	1160	6610	5380	2880	3770	6530	1460	3470	2180	737	1550
2	2260	3760	4910	2680	9510	3790	5230	1420	3490	2220	1510	1580
3	713	3370	3380	5320	8600	3650	2150	3710	3510	953	2530	1880
4	711	3930	4010	7930	6010	3550	2800	2650	3550	622	2530	796
5	1820	3760	7360	7070	4000	2770	5400	3620	1700	1360	2530	696
6	2260	3120	10400	6740	2580	3380	6170	4350	1500	2430	2520	1530
7	1880	863	3380	6650	4740	4430	6110	4410	2760	2410	724	1840
8	2020	1360	6140	5100	6920	6200	8300	1220	3450	2460	698	1620
9	1940	2820	6670	1740	6580	5600	14400	1240	3260	2410	2540	1520
10	1440	2220	6390	2340	6470	5250	8240	4010	3130	814	2540	1490
11	826	1960	6530	5550	6590	5050	4690	4040	3120	728	2560	683
12	2070	1970	10900	5530	5010	3700	6720	4050	1020	2330	2910	639
13	2720	2110	7660	5580	1690	1620	7400	4020	1040	3270	2500	1380
14	3470	950	8920	5480	2670	2250	7540	4000	3700	2330	647	1570
15	2380	1280	8610	4060	4550	3500	5410	1260	2980	2280	632	1460
16	2120	2770	10400	1450	4530	3450	5580	1500	2960	2320	2330	1370
17	845	2840	9960	2060	3930	3400	6690	3630	2950	854	2300	1370
18	836	3190	8100	3200	4430	3500	6800	4200	2980	616	2290	605
19	2950	3630	6030	3200	3400	3000	6400	5980	1300	2230	2310	716
20	2980	2730	5870	3200	1440	1300	6300	11000	1510	2150	2870	2320
21	3000	1130	6510	3200	2060	2260	6100	7000	2310	2360	1650	691
22	3000	1630	6340	2500	3130	3420	6000	5400	2230	2090	609	1350
23	2960	4080	6250	1500	3600	3000	3500	4600	3020	3330	2010	1350
24	747	4400	6220	2600	3490	2970	1850	6000	3010	222	2610	1290
25	727	4480	5660	3200	3280	3380	3000	5950	3020	650	2740	615
26	2930	3560	5360	3150	2700	3150	5000	6100	1080	2050	627	607
27	2920	3460	3810	3150	1440	4140	4320	6300	739	2070	2110	1650
28	2950	976	6340	3150	2170	4800	4290	5400	2190	1700	595	1890
29	2250	3170	7190	2130	---	7530	4300	4170	2220	687	614	1890
30	2250	5500	6790	1230	---	6560	2950	1790	2160	1550	1440	1880
31	736	---	6520	1710	---	6530	---	3590	---	693	1530	---
TOTAL	62921	82229	209220	118780	118400	120900	171170	128570	75409	54969	56743	39828
MEAN	2030	2741	6749	3832	4229	3900	5706	4147	2514	1773	1830	1328
MAX	3470	5500	10900	7930	9510	7530	14400	11000	3700	3330	2910	2320
MIN	711	363	3380	1230	1440	1300	1850	1220	789	616	595	605

CAL YR 1982 TOTAL 1406543 MEAN 3854 MAX 26300 MIN 700 MEAN† 3913 CFSM† 2.15 IN† 29.18
WTR YR 1983 TOTAL 1239139 MEAN 3395 MAX 14400 MIN 595 MEAN† 3375 CFSM† 1.85 IN† 25.17

† ADJUSTED FOR CHANGE IN CONTENTS IN ALLATOONA RESERVOIR.

02396000 ETOWAH RIVER AT ROME, GA.--Continued

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
25...	1000	3730	60	61	7.4	7.4	17.0	10.0	8.0	84
NOV										
29...	0920	2100	130	134	--	7.7	13.5	13.0	9.1	89
DEC										
21...	1245	4300	66	64	7.3	7.2	10.0	14.0	9.3	84
JAN										
25...	1515	2010	85	81	7.7	7.5	7.5	11.0	13.4	113
FEB										
23...	0850	4600	78	83	7.1	7.5	10.0	13.0	10.0	91
MAR										
29...	0920	2500	55	55	7.4	7.3	10.0	7.0	10.4	94
APR										
26...	0930	4640	77	80	7.0	7.5	13.0	13.0	10.0	96
MAY										
24...	0745	9080	51	58	7.3	7.1	16.5	17.5	8.2	36
JUN										
28...	1115	2900	115	115	7.6	7.7	24.5	30.0	7.5	91
JUL										
26...	1245	1220	116	117	7.8	7.4	26.5	33.5	6.9	88
AUG										
30...	0930	2980	170	175	8.0	7.8	26.0	30.0	7.1	88
SEP										
27...	0815	3250	135	147	7.9	8.0	19.5	13.5	8.5	94

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS (MG/L AS CaCO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CaCO3)	ALKA- LITY LAB (MG/L AS CaCO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT											
26...	20	1.1	1300	26	5.0	21	42	.15	.070	.080	--
NOV											
29...	10	.5	930	60	13	47	3	.32	<.020	.030	<1.0
DEC											
21...	15	--	--	36	13	23	17	.33	.050	.030	2.2
JAN											
25...	13	.6	--	34	4.0	30	8	.40	.050	.030	.7
FEB											
23...	25	1.8	160	28	.00	31	22	.39	.030	.040	3.0
MAR											
29...	24	1.2	430	20	1.0	19	77	.30	.030	.050	1.4
APR											
26...	18	.9	160	30	2.0	28	35	.30	<.020	.040	1.6
MAY											
24...	17	--	330	--	--	18	29	.24	.050	.020	2.3
JUN											
28...	15	--	490	48	4.0	44	31	.32	.200	.090	1.5
JUL											
26...	10	.8	330	44	4.0	40	9	.28	.030	.060	2.3
AUG											
30...	8	.6	790	74	17	57	17	.32	<.020	.040	1.3
SEP											
27...	15	.6	790	60	5.0	55	59	.26	.030	.140	2.1

02397000 COOSA RIVER NEAR ROME, GA.

LOCATION.--Lat 34 12'01", long 85 15'24", Floyd County, Hydrologic Unit 03150105, on left bank attached to shoreward side of lock wall of Mayos Bar lock near upstream end, 1.5 mi upstream from Webb Creek, 6 mi southwest of Rome, 7.5 mi downstream from confluence of Oostanaula and Etowah Rivers, and at mile 278.6.

DRAINAGE AREA.--4,040 mi², 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, National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Jan. 1, 1897, to Dec. 31, 1903, nonrecording gage at site 7.5 mi upstream at datum 8.65 ft higher. June 21, 1928, to Dec. 31, 1931, and Mar. 10, 1937, to Dec. 31, 1958, water-stage recorder at site 200 ft downstream at same datum. Water-stage recorder at Fifth Avenue in Rome used as auxiliary gage since 1963.

REMARKS.--Records good. Flow regulated by Allatoona Reservoir since December 1949 and by Carters Lake and Carters re-regulation Reservoir since November 1974. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400, 02382400, and 02393500.)

AVERAGE DISCHARGE.--52 years (1896-1903, 1928-31, 1937-58, 1962-83), 6,772 ft³/s, 22.76 in/yr, unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 65,000 ft³/s Jan. 22, 1947, gage height, 37.0 ft; minimum daily, 870 ft³/s Oct. 18-22, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1834, 40.3 ft at site and datum at Rome, equivalent to about 43 ft at present site, from gage-height relation, Apr. 1, 1886, discharge, 100,000 ft³/s, from rating curve extended above 63,000 ft³/s on basis of peak flow at Gadsden, Ala.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 32,400 ft³/s Apr. 9, gage height, 26.80 ft; minimum daily, 1,330 ft³/s Oct. 4.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2860	1820	22700	10500	5500	6860	12000	5290	7760	5170	1930	2560
2	2820	4430	28000	8150	17800	6930	11500	4960	7630	5410	2580	2520
3	1390	4900	26200	12000	26500	6690	7830	6880	7420	4090	3760	3010
4	1330	6490	22800	15500	22600	6430	7310	6280	7510	3560	3920	2130
5	2330	7520	25800	13500	19700	6010	9670	6900	5820	4060	4000	2020
6	2750	7000	30300	11600	15200	7870	18800	7930	6040	5360	4020	2560
7	2460	3570	27300	10900	14500	12200	22600	8050	7060	5170	2270	2920
8	2480	3020	23600	10000	16400	13200	25000	4240	7700	5120	2280	2990
9	2540	4500	20700	5760	14700	11600	31400	3880	7670	4850	3890	2890
10	2100	4190	15300	5610	12800	10000	31200	6660	7370	2790	3760	2790
11	1570	3470	14800	8650	13100	9240	28200	6880	6930	2590	3690	2000
12	2750	3480	23800	8760	12200	8310	27400	6800	4290	4080	4110	1910
13	4020	3670	24600	8590	3500	5180	22200	6610	4040	5100	3640	2560
14	6860	2680	23700	8310	8260	5000	16800	6330	5770	4050	1890	2850
15	6600	2800	23000	7630	9350	6290	14800	3570	5220	3940	1890	2900
16	5310	4350	24600	3810	8700	6230	12500	5990	5170	3950	3490	2760
17	3080	4450	23700	3520	7930	6180	12800	9120	5170	2480	3570	2690
18	2620	5910	21500	5300	8030	6340	11900	9210	5250	2300	3460	2040
19	4640	8670	18300	5550	7190	6020	11300	13300	5610	3670	3390	2010
20	4650	8040	14500	5550	4880	4530	11000	23400	6280	3440	3680	3590
21	4620	5070	14000	5690	5050	6300	10500	24200	6090	3710	2540	1910
22	4460	2750	12700	7050	6300	7900	10200	23800	5400	3360	1580	2330
23	4380	2860	11800	6890	7580	7310	10000	22100	5930	4670	2880	2410
24	2040	6920	11100	6770	8250	7140	8330	23300	6090	2230	3460	2410
25	1910	7110	10300	7270	8110	7760	9610	22300	5690	2020	3490	1730
26	4000	5990	9610	6990	6860	7720	10800	20400	3570	3320	1450	1640
27	4090	6050	7300	6770	4980	11600	9770	16100	3120	3580	2840	2500
28	4070	3700	9890	6770	5150	15200	8920	13400	4340	3070	1530	2670
29	3360	13400	11800	6250	---	15900	8470	10500	4230	1990	1560	2660
30	3320	17900	12300	4420	---	13800	7610	5750	4870	2660	2490	2540
31	1670	---	11600	4230	---	12400	---	7540	---	1940	2440	---
TOTAL	103030	166710	577600	238290	306120	264140	440420	341670	175040	113730	91480	74500
MEAN	3325	5557	18630	7687	10930	8521	14680	11020	5835	3669	2951	2483
MAX	6860	17900	30300	15500	26500	15900	31400	24200	7760	5410	4110	3590
MIN	1330	1820	7300	3520	4880	4530	7310	3570	3120	1940	1450	1640
CAL YR 1982 TOTAL	3299700			9040	MAX 44500	MIN 1330	MEAN+ 9107	CFSM+ 2.25	IN+ 30.60			
WTR YR 1983 TOTAL	2892780			7925	MAX 31400	MIN 1330	MEAN+ 7915	CFSM+ 1.96	IN+ 26.60			

† ADJUSTED FOR CHANGE IN CONTENTS IN CARTERS LAKE, CARTERS RE-REGULATION DAM, AND ALLATOONA RESERVOIR.

02397000 COOSA RIVER NEAR ROME, GA.--Continued

GAGE HEIGHT (FEET ABOVE DATUM), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.35	11.76	20.89	15.30	13.47	13.96	15.85	13.39	14.30	13.33	11.86	12.22
2	12.32	13.05	23.71	14.45	18.55	13.99	15.65	13.26	14.26	13.42	12.23	12.20
3	11.44	13.23	22.94	15.84	22.84	13.90	14.33	13.97	14.18	12.92	12.75	12.44
4	11.38	13.63	21.25	17.30	21.15	13.80	14.12	13.75	14.21	12.73	12.82	11.98
5	12.06	14.21	22.48	16.46	19.64	13.65	15.02	13.99	13.59	12.92	12.86	11.92
6	12.29	14.04	25.19	15.71	17.33	14.34	18.89	14.37	13.67	13.40	12.87	12.21
7	12.15	12.73	23.78	15.45	16.79	15.91	21.03	14.41	14.04	13.33	12.07	12.41
8	12.15	12.54	21.90	15.12	17.93	16.30	22.22	12.98	14.28	13.31	12.08	12.44
9	12.18	13.13	20.32	13.57	16.99	15.70	26.08	12.85	14.27	13.21	12.79	12.38
10	11.96	13.02	17.60	13.51	16.15	15.14	26.30	13.89	14.16	12.38	12.75	12.34
11	11.62	12.76	17.06	14.64	16.25	14.86	24.39	13.98	14.00	12.27	12.71	11.90
12	12.30	12.76	21.53	14.68	15.95	14.52	23.72	13.95	13.00	12.90	12.89	11.84
13	12.89	12.85	21.89	14.62	14.59	13.35	21.24	13.88	12.91	13.30	12.69	12.23
14	13.97	12.41	21.58	14.51	14.49	13.27	18.45	13.77	13.55	12.90	11.82	12.38
15	13.87	12.48	21.25	14.26	14.91	13.75	17.34	12.73	13.35	12.84	11.83	12.41
16	13.39	13.11	22.28	12.82	14.66	13.73	16.03	13.63	13.33	12.84	12.59	12.34
17	12.53	13.14	21.73	12.71	14.37	13.71	16.18	14.81	13.33	12.20	12.65	12.30
18	12.28	13.70	20.62	13.39	14.41	13.77	15.80	14.84	13.36	12.08	12.61	11.93
19	13.12	14.65	18.98	13.48	14.09	13.65	15.60	16.49	13.49	12.72	12.57	11.90
20	13.13	14.41	16.91	13.48	13.23	13.09	15.50	21.43	13.75	12.62	12.69	12.67
21	13.11	13.30	16.62	13.54	13.29	13.75	15.31	21.87	13.68	12.73	12.19	11.84
22	13.04	13.07	16.12	14.03	13.76	14.36	15.19	21.76	13.42	12.58	11.61	12.10
23	13.01	13.96	15.76	13.96	14.23	14.13	15.13	20.75	13.62	13.12	12.33	12.14
24	11.93	13.99	15.54	13.93	14.49	14.06	14.52	21.38	13.68	12.05	12.58	12.15
25	11.84	14.06	15.24	14.12	14.44	14.30	14.99	20.97	13.53	11.91	12.59	11.72
26	12.84	13.64	14.98	14.01	13.96	14.28	15.43	20.07	12.73	12.56	11.50	11.66
27	12.88	13.66	14.13	13.94	13.27	15.73	15.05	18.07	12.55	12.69	12.32	12.17
28	12.87	12.77	15.10	13.93	13.33	17.24	14.74	16.60	13.02	12.47	11.58	12.26
29	12.58	16.50	15.76	13.74	---	17.78	14.58	15.30	12.98	11.89	11.60	12.25
30	12.56	18.46	15.97	13.05	---	16.57	14.25	13.56	13.22	12.27	12.19	12.19
31	11.68	---	15.69	12.98	---	15.99	---	14.23	---	11.36	12.15	---
MEAN	12.51	13.53	19.19	14.28	15.66	14.60	17.43	15.84	13.58	12.70	12.35	12.16
MAX	13.97	18.46	25.19	17.30	22.84	17.78	26.30	21.87	14.30	13.42	12.89	12.67
MIN	11.38	11.76	14.13	12.71	13.23	13.09	14.12	12.73	12.55	11.86	11.50	11.66
CAL YR 1982	MEAN 15.04		MAX 31.07	MIN 11.38								
WTR YR 1983	MEAN 14.48		MAX 26.30	MIN 11.38								

MOBILE RIVER BASIN

02397000 COOSA RIVER NEAR ROME, GA.--Continued

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT 26...	1315	4470	120	121	7.7	7.7	15.0	20.0	9.2	92
NOV 29...	1300	13900	74	76	7.0	7.1	13.0	17.0	8.3	81
DEC 21...	1630	12100	82	79	7.3	7.2	9.0	10.0	9.8	86
JAN 26...	0900	6760	97	92	7.5	7.4	6.0	1.0	11.3	91
FEB 23...	1215	7760	100	104	7.6	7.5	10.5	17.5	10.0	92
MAR 29...	1230	17400	72	73	7.4	7.4	10.5	17.0	10.3	94
APR 26...	1330	10700	89	92	--	7.4	13.0	23.0	9.4	91
MAY 24...	1130	24400	69	69	7.1	6.9	18.5	25.0	7.2	78
JUN 28...	1530	4300	155	149	7.7	7.7	24.5	29.0	7.3	89
JUL 26...	1045	4670	160	167	7.7	7.4	27.0	30.0	6.6	85
AUG 30...	1430	2890	160	157	7.8	7.8	26.5	35.0	8.6	109
SEP 27...	1145	3190	130	144	7.7	7.9	19.5	22.5	7.5	83

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L AS CAC03)	ALKA- LINITY LAB (MG/L AS CAC03)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 26...	14	.7	3300	46	1.0	45	.28	.060	.080	--
NOV 29...	100	2.7	12000	32	6.0	26	.21	.020	.280	12
DEC 21...	14	--	--	40	10	30	.37	.070	.060	2.1
JAN 26...	18	1.6	430	40	2.0	38	.35	.050	.070	1.3
FEB 23...	27	1.0	2300	40	.00	40	.36	.090	.090	3.8
MAR 29...	33	1.3	2300	28	2.0	26	.28	.030	.120	3.2
APR 26...	21	1.1	790	38	5.0	33	.26	.020	.070	2.7
MAY 24...	31	--	490	26	3.0	23	.22	.060	.090	5.0
JUN 28...	13	--	1100	74	18	56	.38	.180	.110	1.6
JUL 26...	12	1.0	940	74	16	58	.34	.030	.070	2.0
AUG 30...	9	.9	220	62	7.0	55	.31	.020	.170	1.9
SEP 27...	6	1.1	490	54	2.0	52	.30	.080	.260	4.3

MOBILE RIVER BASIN

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02397410 CEDAR CREEK AT CEDARTOWN, GA.

LOCATION.--Lat 33°59'45", long 85°15'53", Polk County, Hydrologic Unit 03150105, at bridge on Georgia Avenue at Cedartown, 1.1 mi downstream from Pumpkin Pile Creek, and at mile 29.9.

DRAINAGE AREA.--66.9 mi².

PERIOD OF RECORD.--May 1981 to current year.

GAGE.--Water-stage recorder. Datum of gage is 758.88 ft, National Geodetic Vertical Datum of 1929 (datum published incorrectly in 1981 and 1982).

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,080 ft³/s Feb. 3, 1982, gage height, 16.43 ft; minimum daily discharge, 13 ft³/s Sept. 25-28, Oct. 5, 6, 1981.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 4, 1979, reached a stage of 21.1 ft from floodmarks, discharge, 16,500 ft³/s from rating curve extended above 4,500 ft³/s on basis of contracted-opening and flow-over-road computation of peak flow.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 5	1330	1750	10.84	Apr. 8	1600	*2610	13.01
Feb. 2	0600	2340	12.38	May 19	1615	1760	10.88

Minimum daily discharge, 18 ft³/s Sept. 25-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	20	986	103	139	204	151	80	62	39	26	21
2	19	20	373	589	1270	134	234	78	58	42	25	22
3	18	32	174	352	358	107	188	78	56	37	24	23
4	18	66	146	231	240	97	144	76	66	36	24	22
5	18	40	1090	187	190	128	134	70	60	35	24	22
6	18	31	452	157	321	765	371	67	67	34	26	29
7	18	28	260	132	236	280	244	65	115	33	26	35
8	19	26	193	115	180	217	1310	63	79	32	24	23
9	19	25	151	106	153	172	874	61	64	32	24	21
10	19	24	124	100	156	132	432	59	57	31	23	20
11	21	23	466	99	186	114	306	60	53	30	23	20
12	21	26	815	89	139	104	247	64	51	30	22	23
13	226	40	323	84	118	96	210	60	49	29	22	30
14	43	31	230	82	110	91	205	57	48	28	22	26
15	27	28	338	79	100	87	196	58	47	28	22	22
16	24	25	634	75	96	85	156	199	46	28	22	21
17	23	33	283	73	96	84	134	103	44	27	22	20
18	22	241	215	70	38	85	148	76	47	27	22	20
19	22	70	201	67	83	81	137	713	68	26	22	19
20	21	49	162	66	79	92	114	446	60	31	22	20
21	20	41	131	70	76	136	105	259	52	37	21	20
22	20	48	114	83	101	92	101	184	48	28	21	20
23	20	40	106	83	113	82	122	136	47	26	20	19
24	20	33	101	73	96	118	202	106	44	25	20	19
25	20	30	101	68	99	141	128	89	42	25	20	18
26	20	28	87	65	87	233	106	81	41	24	20	18
27	20	27	81	68	82	665	97	77	39	23	20	18
28	19	86	242	66	89	279	91	72	41	23	21	18
29	20	412	207	63	---	205	87	69	39	23	21	18
30	20	134	142	70	---	167	83	70	38	23	21	18
31	19	---	114	65	---	190	---	65	---	24	20	---
TOTAL	852	1757	9042	3630	5081	5463	7057	3741	1628	916	692	645
MEAN	27.5	58.6	292	117	181	176	235	121	54.3	29.5	22.3	21.5
MAX	226	412	1090	589	1270	765	1310	713	115	42	26	35
MIN	18	20	81	63	76	81	83	57	38	23	20	18
CFSM	.41	.38	4.37	1.75	2.71	2.63	3.51	1.81	.61	.44	.33	.32
IN.	.47	.98	5.03	2.02	2.83	3.04	3.92	2.08	.91	.51	.38	.36
CAL YR 1982	TOTAL	46570	MEAN 128	MAX 3200	MIN 18	CFSM 1.91	IN 25.90					
WTR YR 1983	TOTAL	40504	MEAN 111	MAX 1310	MIN 18	CFSM 1.66	IN 22.52					

MOBILE RIVER BASIN

02397500 CEDAR CREEK NEAR CEDARTOWN, GA.

LOCATION.--Lat 34°03'38", long 85°18'41", Polk County, Hydrologic Unit 03150105, at bridge on State Highway 161, 4.5 mi up-stream from Lake Creek, and 4.5 mi northwest of Cedartown.

DRAINAGE AREA.--115 mi², revised.

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

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Water-discharge records for the water years 1943-73 are published in reports of the U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
26...	1230	45	275	294	7.8	7.9	12.0	19.0	8.8	83
NOV										
29...	1200	540	89	93	7.1	7.1	15.5	17.5	7.9	31
DEC										
22...	0830	225	190	178	7.6	7.6	9.5	5.0	9.3	83
JAN										
26...	1045	101	240	218	7.9	7.7	9.5	6.5	9.7	84
FEB										
23...	1130	204	170	177	7.8	7.8	13.0	17.0	9.0	88
MAR										
29...	1145	342	130	131	7.7	7.6	11.0	13.0	10.7	99
APR										
26...	1230	170	175	181	7.4	7.8	14.0	23.0	10.1	100
MAY										
24...	1030	235	170	175	7.7	7.5	19.0	28.0	7.4	31
JUN										
28...	1430	76	270	244	7.9	7.9	22.5	30.0	8.7	103
JUL										
25...	1545	50	260	279	8.4	8.2	25.5	32.5	10.4	131
AUG										
30...	1300	39	280	279	8.1	8.0	23.0	35.0	8.7	103
SEP										
27...	1100	45	260	303	7.7	8.1	16.0	21.0	5.7	59

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CACO3)	ALKA- LITY LAB (MG/L AS CACO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
26...	6	1.0	330	120	.00	127	.64	.130	.380	--
NOV										
29...	30	3.2	23000	38	8.0	30	.21	.050	.200	13
DEC										
22...	7	--	--	86	8.0	78	.46	.040	.060	1.0
JAN										
26...	6	1.5	930	110	11	99	.53	.160	.150	.7
FEB										
23...	15	1.5	23000	84	4.0	80	.33	.040	.060	4.1
MAR										
29...	9	2.1	8700	56	.00	57	.34	.030	.050	2.3
APR										
26...	6	1.3	4900	78	2.0	76	.32	.020	.070	2.4
MAY										
24...	10	--	7000	78	4.0	74	.37	.050	.070	2.3
JUN										
28...	7	--	3300	120	6.0	114	.42	.260	.120	2.0
JUL										
26...	7	.8	2300	120	.00	122	.50	.060	.220	4.8
AUG										
30...	3	1.1	2200	130	.00	130	.59	.030	.260	3.8
SEP										
27...	2	1.1	790	130	.00	133	.62	.180	.440	5.4

02397530 COOSA RIVER NEAR COOSA, GA.

LOCATION.--Lat 34°11'54", long 85°26'46", Floyd County, Ga.-Cherokee County, Ala., Hydrologic Unit 03150105, 6.5 mi southwest of Coosa, and at mile 254.8.

DRAINAGE AREA.--4,360 mi², approximately.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: August 1976 to current year.

pH: August 1976 to current year.

WATER TEMPERATURE: August 1976 to current year.

DISSOLVED OXYGEN: August 1976 to current year.

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

REMARKS.--Flow regulated by Allatoona Reservoir and by Carters Lake and re-regulation dam. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400, 02382400, and 02393500). Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, Dissolved Oxygen, and Specific Conductance by U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 253 micromhos Sept. 15, 1977; minimum, 32 micromhos Apr. 15, 1979.

pH: Maximum, 9.7 units Dec. 5, 1977; minimum, 6.3 units Nov. 6-12, 1977.

WATER TEMPERATURE: Maximum recorded, 34.5°C Aug. 22, 1983, July 24, 1981; minimum, 1.0°C Jan. 13, 1982.

DISSOLVED OXYGEN: Maximum, 14.4 mg/L Jan. 20, 1977; minimum recorded, 1.4 mg/L July 8, 1977.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 188 micromhos Sept. 23; minimum, 65 micromhos Dec. 2.

pH: Maximum, 8.8 units Aug. 22; minimum, 6.7 units Dec. 2-5, May 23.

WATER TEMPERATURE: Maximum, 34.5°C Aug. 22; minimum, 2.0°C Jan. 20.

DISSOLVED OXYGEN: Maximum, 12.4 mg/L Jan. 23, 24; minimum, 3.2 mg/L Aug. 24.

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT									
19...	1020	115	109	7.2	7.4	19.0	23.0	6.1	66
NOV									
08...	1400	116	112	7.2	7.4	16.5	11.0	7.5	78
DEC									
14...	1110	77	75	7.0	7.2	9.0	3.0	10.4	91
JAN									
19...	1200	163	155	7.5	7.7	7.0	4.0	11.6	97
FEB									
08...	1015	100	98	7.2	7.5	7.0	2.0	11.2	94
MAR									
23...	1130	129	128	7.3	7.7	12.0	7.0	9.0	85
APR									
12...	1150	84	81	7.1	7.1	15.5	15.0	8.2	84
MAY									
12...	1300	104	105	7.1	7.4	19.5	19.5	7.6	84
JUN									
14...	0945	110	107	7.2	7.5	22.5	22.5	6.6	78
JUL									
20...	1030	140	139	7.1	7.5	30.5	31.0	5.4	73
AUG									
10...	1040	134	139	7.0	7.4	30.5	28.0	4.0	55
SEP									
26...	1100	152	156	7.3	7.5	23.0	19.0	6.3	74

MOBILE RIVER BASIN

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TUR- BIO- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	ALKA- LINITY LAB (MG/L AS CAC03)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)
OCT 19...	21	13	4.5	70	40	3.0	37	10	100
NOV 08...	16	17	.9	40	40	.00	40	7	96
DEC 14...	50	22	1.5	4300	34	7.0	27	42	116
JAN 19...	10	3	.5	--	66	8.0	58	2	116
FEB 08...	40	10	1.1	9300	40	4.0	36	21	100
MAR 23...	23	11	.9	4100	50	4.0	46	25	116
APR 12...	32	14	1.9	490	30	.00	30	43	116
MAY 12...	11	7	1.0	140	40	2.0	38	21	108
JUN 14...	12	11	.8	50	36	.00	37	14	84
JUL 20...	12	7	--	20	46	.00	48	17	124
AUG 10...	4	12	1.2	110	42	.00	44	8	124
SEP 26...	8	11	1.1	20	50	2.0	48	10	124

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 19...	.21	.080	.30	.170	--
NOV 08...	.16	.080	.40	.140	--
DEC 14...	.27	.030	.50	.120	6.5
JAN 19...	.53	.070	.20	.090	2.3
FEB 08...	.36	.050	.30	.100	1.9
MAR 23...	.38	.070	.20	.150	3.4
APR 12...	.23	.080	.30	.530	4.8
MAY 12...	.29	.070	.20	.070	2.7
JUN 14...	.28	.060	.20	.110	1.0
JUL 20...	.32	.040	.40	.230	2.8
AUG 10...	.28	.090	.20	.270	2.6
SEP 26...	.31	.040	.30	.200	3.7

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1993

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		
1	162	137	117	109	94	82	99	84	140	128	138	123
2	139	115	137	112	82	65	106	84	146	80	146	102
3	137	113	156	122	76	66	112	99	81	68	121	106
4	135	113	157	96	78	74	100	79	78	71	120	105
5	138	119	117	103	80	72	95	83	82	72	120	106
6	146	134	126	105	79	72	98	83	90	75	122	112
7	158	144	127	110	82	73	98	82	99	90	119	107
8	167	159	126	110	88	80	103	81	104	80	105	94
9	165	123	135	126	83	76	104	85	91	80	97	89
10	145	131	146	113	92	78	121	106	94	81	98	85
11	158	128	147	109	94	82	150	121	96	82	99	86
12	157	137	121	105	95	77	115	92	96	83	99	87
13	165	127	126	104	82	78	110	91	103	84	103	90
14	179	130	130	118	81	73	111	89	116	102	113	103
15	144	125	129	119	80	73	110	90	127	115	132	113
16	140	125	135	120	89	77	111	95	109	91	142	109
17	130	121	154	130	86	75	128	107	107	93	120	106
18	121	112	154	110	82	75	154	129	111	99	122	108
19	122	115	123	110	82	75	166	119	110	95	123	110
20	133	113	122	108	97	78	135	115	111	98	124	111
21	154	98	122	113	93	80	128	110	120	110	127	116
22	119	97	129	116	96	81	129	110	134	120	142	125
23	117	94	140	126	92	80	126	112	144	110	142	119
24	113	99	143	104	95	76	130	126	120	109	123	115
25	113	102	115	102	95	82	147	131	125	113	125	113
26	124	110	110	93	105	80	146	108	125	114	121	109
27	141	124	119	103	100	83	116	103	121	111	119	104
28	161	101	121	103	121	93	112	104	124	112	102	91
29	118	100	115	83	104	88	114	104	---	---	96	80
30	117	101	96	81	105	83	114	110	---	---	92	80
31	116	102	---	---	103	85	130	110	---	---	98	82
MONTH	179	94	157	81	121	65	166	79	146	68	146	80
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		
1	98	83	106	97	142	99	140	129	157	141	164	152
2	99	82	115	100	114	99	139	124	162	156	166	156
3	104	87	131	115	108	95	136	115	179	161	---	---
4	116	104	144	123	108	95	124	114	168	151	---	---
5	126	117	120	105	116	95	122	118	168	129	---	---
6	120	79	124	104	112	97	134	120	133	120	---	---
7	82	73	108	92	122	112	145	135	127	120	---	---
8	82	75	104	90	145	119	141	115	124	117	176	162
9	82	66	109	85	119	102	118	106	136	117	184	176
10	73	66	134	109	113	98	122	110	141	126	177	144
11	77	73	146	100	115	98	122	112	164	126	153	142
12	86	74	110	97	105	96	132	121	132	113	158	144
13	89	77	115	100	111	103	141	124	126	112	153	143
14	90	78	117	101	126	104	175	121	120	114	167	152
15	90	79	111	101	146	126	133	111	124	116	166	152
16	97	79	131	103	146	106	128	113	127	114	176	162
17	99	87	140	132	124	102	126	121	141	127	174	143
18	98	79	145	114	129	110	128	123	155	133	160	145
19	97	82	114	100	127	111	144	127	153	124	156	143
20	101	82	102	74	130	118	146	136	135	123	155	141
21	99	82	86	74	135	116	175	137	135	126	156	148
22	99	80	86	76	150	136	157	129	131	123	156	134
23	97	80	88	78	152	129	137	127	123	116	138	137
24	107	82	90	72	143	128	134	126	126	116	161	128
25	117	104	83	74	139	115	135	131	148	125	151	133
26	128	118	86	75	128	117	131	122	144	137	170	144
27	114	98	91	78	131	117	145	123	139	116	166	153
28	109	97	90	78	140	126	169	140	118	112	181	166
29	103	94	90	74	150	141	171	142	121	117	186	161
30	105	94	99	83	170	140	146	135	146	117	171	166
31	---	---	109	88	---	---	142	138	166	148	---	---
MONTH	128	66	146	72	170	95	175	106	179	112	188	128
YEAR	188	65										

PH (STANDARD UNITS), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		
1	7.4	7.2	7.5	7.1	7.0	6.9	7.1	7.0	7.4	7.3	7.2	7.2
2	7.3	7.2	7.4	7.2	6.8	6.7	7.1	7.0	7.5	7.1	7.4	7.2
3	7.3	7.2	7.5	7.2	6.7	6.7	7.1	7.0	7.1	7.0	7.4	7.3
4	7.4	7.1	7.5	7.2	6.7	6.7	7.1	7.0	7.0	7.0	7.4	7.2
5	7.6	7.1	7.3	7.2	6.8	6.7	7.0	7.0	7.1	7.0	7.3	7.3
6	7.4	7.3	7.2	7.2	6.9	6.8	7.2	7.0	7.1	7.1	7.4	7.2
7	7.3	7.3	7.3	7.2	6.9	6.8	7.2	7.1	7.2	7.1	7.2	7.1
8	7.5	7.3	7.3	7.1	6.9	6.8	7.1	7.1	7.3	7.2	7.1	7.1
9	7.3	7.3	7.2	7.1	6.9	6.8	7.0	7.0	7.3	7.2	7.2	7.1
10	7.3	7.2	7.4	7.2	7.0	6.8	7.0	6.9	7.2	7.2	7.3	7.1
11	7.3	7.2	7.4	7.2	7.1	6.9	7.2	7.0	7.2	7.2	7.3	7.2
12	7.2	7.2	7.2	7.1	7.1	7.0	7.1	7.0	7.2	7.2	7.4	7.3
13	7.2	7.2	7.2	7.2	7.0	7.0	7.3	7.0	7.2	7.1	7.4	7.3
14	7.3	7.2	7.2	7.2	7.1	7.0	7.3	7.3	7.2	7.2	7.3	7.2
15	7.3	7.2	7.2	7.1	7.1	7.0	7.4	7.2	7.3	7.2	7.4	7.3
16	7.2	7.2	7.2	7.1	7.1	7.0	7.4	7.3	7.3	7.2	7.5	7.4
17	7.2	7.2	7.4	7.2	7.0	7.0	7.3	7.3	7.2	7.1	7.4	7.3
18	7.2	7.1	7.4	7.3	7.1	7.0	7.4	7.3	7.2	7.1	7.4	7.3
19	7.2	7.2	7.3	7.2	7.1	7.0	7.5	7.4	7.2	7.1	7.3	7.2
20	7.4	7.2	7.2	7.1	7.0	6.9	7.5	7.4	7.2	7.1	7.3	7.3
21	7.4	7.2	7.1	7.1	7.2	7.0	7.5	7.4	7.1	7.0	7.4	7.3
22	7.3	7.1	7.1	7.1	7.2	7.1	7.4	7.4	7.2	7.1	7.4	7.3
23	7.2	7.1	7.2	7.1	7.1	7.1	7.4	7.4	7.2	7.1	7.4	7.3
24	7.3	7.1	7.3	7.2	7.1	7.0	7.4	7.4	7.2	7.0	7.4	7.3
25	7.2	7.1	7.2	7.2	7.1	7.0	7.5	7.4	7.1	7.1	7.4	7.3
26	7.2	7.1	7.2	7.2	7.1	7.0	7.5	7.4	7.2	7.1	7.4	7.3
27	7.2	7.1	7.2	7.2	7.0	6.9	7.4	7.4	7.2	7.1	7.5	7.2
28	7.4	7.1	7.3	7.2	7.2	7.0	7.4	7.3	7.2	7.1	7.3	7.1
29	7.2	7.1	7.2	6.9	7.1	7.0	7.4	7.3	---	---	7.3	7.1
30	7.2	7.1	7.0	6.9	7.1	7.1	7.4	7.3	---	---	7.2	7.1
31	7.2	7.1	---	---	7.1	7.0	7.4	7.3	---	---	7.2	7.2
MONTH	7.6	7.1	7.5	6.9	7.2	6.7	7.5	6.9	7.5	7.0	7.5	7.1
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		
1	7.2	7.1	7.1	7.0	7.4	7.2	7.3	7.2	7.5	7.1	7.3	7.1
2	7.3	7.1	7.1	7.0	7.3	7.2	7.3	7.2	7.7	7.2	7.2	7.2
3	7.2	7.2	7.2	7.0	7.3	7.1	7.5	7.2	7.3	7.2	---	---
4	7.2	7.2	7.3	7.2	7.3	7.2	8.0	7.2	7.4	7.1	---	---
5	7.4	7.2	7.2	7.1	7.3	7.2	7.3	7.1	7.3	7.1	---	---
6	7.4	7.1	7.2	7.1	7.3	7.2	7.1	7.1	7.2	7.1	---	---
7	7.2	7.1	7.3	6.9	7.3	7.3	7.3	7.1	7.5	7.1	---	---
8	7.1	7.1	7.2	7.1	7.4	7.3	7.3	7.1	3.6	7.1	7.5	7.2
9	7.2	7.0	7.3	7.1	7.3	7.1	7.2	7.1	7.8	7.1	7.5	7.2
10	7.1	7.1	7.2	7.1	7.3	7.1	7.9	7.2	7.3	7.0	7.4	7.3
11	7.2	7.1	7.4	7.1	7.3	7.2	8.6	7.2	7.4	7.1	8.5	7.2
12	7.3	6.9	7.3	7.1	7.3	7.2	7.9	7.1	7.1	7.0	7.5	7.1
13	6.9	6.8	7.2	7.1	7.3	7.2	7.2	7.1	7.3	7.0	7.3	7.2
14	7.0	6.8	7.2	7.1	7.3	7.2	7.4	7.2	7.4	7.0	7.2	7.2
15	7.1	7.0	7.2	7.1	7.5	7.3	7.3	7.1	7.7	7.0	7.3	7.2
16	7.2	7.0	7.3	7.1	7.5	7.2	7.4	7.1	7.4	7.1	7.4	7.2
17	7.2	7.1	7.2	7.1	7.4	7.2	7.1	7.1	7.4	7.0	7.6	7.3
18	7.3	7.1	7.3	7.1	7.4	7.2	8.5	7.1	7.5	7.1	8.0	7.2
19	7.3	7.2	7.2	7.1	7.3	7.2	7.4	7.1	7.6	7.1	7.7	7.2
20	7.3	7.2	7.2	6.9	7.3	7.2	8.0	7.1	7.3	7.1	7.5	7.2
21	7.3	7.1	6.9	6.8	7.2	7.1	7.9	7.3	7.6	7.0	7.2	7.2
22	7.3	7.2	6.9	6.8	7.3	7.2	8.0	7.2	8.8	7.1	7.3	7.2
23	7.3	7.2	6.9	6.7	7.3	7.2	7.7	7.1	8.2	7.0	7.4	7.2
24	7.3	7.1	6.9	6.8	7.3	7.1	7.4	7.1	7.2	6.9	7.3	7.1
25	7.2	7.0	7.1	6.9	7.3	7.1	8.1	7.2	7.2	7.0	7.3	7.1
26	7.3	7.1	7.1	7.0	7.4	7.2	7.8	7.0	7.3	7.1	7.7	7.2
27	7.3	7.0	7.1	7.1	7.5	7.2	7.1	7.0	7.9	7.1	7.6	7.4
28	7.2	7.0	7.2	7.1	7.3	7.1	7.5	7.1	7.2	7.0	7.4	7.3
29	7.2	7.0	7.2	7.0	7.3	7.2	7.8	7.2	7.4	7.0	7.4	7.3
30	7.2	7.0	7.3	7.0	7.4	7.2	7.9	7.2	8.4	7.2	7.5	7.4
31	---	---	7.2	7.1	---	---	7.4	7.1	7.5	7.2	---	---
MONTH	7.4	6.8	7.4	6.7	7.5	7.1	8.6	7.0	3.8	6.9	3.5	7.1
YEAR	8.3	6.7										

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH		
1	24.5	22.0	21.5	17.5	14.0	13.0	12.5	11.0	13.0	11.0	12.0	9.5
2	25.0	23.0	20.0	16.0	14.5	14.0	11.5	11.0	13.0	11.5	12.0	10.0
3	25.5	23.5	20.5	19.0	15.5	15.0	12.5	10.5	12.0	11.5	13.0	11.0
4	25.0	24.0	19.5	19.0	16.5	15.5	11.5	9.5	11.5	10.0	14.5	12.0
5	26.5	23.5	15.0	16.0	17.0	16.0	10.5	9.0	9.5	2.0	14.5	13.5
6	26.5	24.5	16.0	14.5	16.5	15.5	11.0	8.5	8.0	7.5	16.5	14.5
7	26.0	25.5	16.0	14.0	15.5	14.5	11.5	9.0	7.5	7.0	17.5	15.0
8	25.5	24.5	16.5	14.0	14.5	13.5	10.5	9.0	8.0	6.5	17.5	16.0
9	26.0	24.5	15.5	14.0	13.5	13.0	11.5	9.5	7.0	6.5	16.0	14.5
10	27.5	25.5	15.0	13.5	13.0	12.5	10.5	9.5	7.5	6.5	14.0	12.0
11	26.0	24.5	15.5	14.0	13.0	12.0	12.5	9.5	8.5	7.0	12.5	10.5
12	25.0	24.5	16.5	15.0	12.5	10.5	10.0	6.0	9.0	7.5	11.0	9.5
13	25.5	24.5	16.0	14.0	10.5	8.5	10.5	4.5	9.0	2.0	11.0	9.0
14	24.5	21.5	15.0	13.5	9.5	8.5	11.0	7.0	10.5	2.5	12.0	9.5
15	22.0	20.5	15.0	13.5	10.0	8.5	10.0	3.0	10.5	6.5	13.0	10.5
16	20.5	19.5	15.5	13.5	11.0	9.0	10.0	7.0	9.5	6.0	14.0	12.5
17	20.5	19.0	14.5	12.5	11.0	10.5	11.0	7.0	11.5	9.0	13.5	13.0
18	20.0	19.0	14.0	12.0	10.5	10.0	10.0	4.0	11.5	9.0	14.0	13.0
19	20.0	19.0	14.0	13.0	10.5	9.5	8.0	4.0	12.0	9.0	15.5	13.5
20	19.5	18.5	14.0	13.0	10.0	9.0	5.0	2.0	12.0	9.5	14.0	14.0
21	19.5	18.5	14.5	13.5	11.0	9.5	4.5	2.5	12.5	9.5	14.0	12.5
22	20.0	19.0	15.0	14.5	10.0	9.5	6.0	4.0	14.0	11.0	14.0	12.0
23	20.0	18.5	17.5	15.0	12.0	10.5	7.0	6.0	13.5	12.0	12.5	11.5
24	22.0	18.5	17.5	16.0	12.0	11.0	6.5	6.0	12.5	11.5	12.0	10.5
25	19.0	17.5	17.0	15.0	13.5	12.0	9.0	6.5	12.5	11.0	12.0	10.0
26	19.5	17.0	15.0	14.5	15.0	13.0	9.0	7.0	12.0	10.5	10.5	9.5
27	19.0	16.0	15.0	14.5	17.0	14.5	9.0	8.0	10.5	10.0	11.5	10.0
28	17.5	15.5	15.5	14.5	17.0	15.5	11.0	8.5	10.5	9.5	11.5	10.5
29	19.0	16.0	15.5	13.5	15.5	13.5	10.5	9.0	---	---	12.5	11.0
30	19.0	16.5	13.5	13.5	13.5	12.5	12.0	9.5	---	---	11.5	11.0
31	21.0	17.0	---	---	13.0	12.0	12.0	9.5	---	---	11.5	11.0
MONTH	27.5	15.5	21.5	12.0	17.0	3.5	12.5	2.0	14.0	6.5	17.5	9.0
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		
1	13.0	11.0	20.0	17.5	22.5	21.0	26.5	26.0	32.0	29.5	31.5	31.0
2	12.5	12.0	20.5	18.0	22.0	20.5	27.0	25.5	32.5	29.5	31.5	30.0
3	13.0	12.0	20.0	19.5	22.0	20.5	30.0	26.0	31.0	29.5	---	---
4	14.0	12.0	21.5	19.5	22.0	20.5	29.5	26.0	32.0	29.0	---	---
5	14.0	13.5	20.0	13.5	23.5	21.0	22.0	26.5	30.5	28.5	---	---
6	14.0	13.0	20.0	18.5	23.5	22.0	27.5	26.5	30.0	28.5	---	---
7	14.5	13.0	19.0	18.0	23.0	22.5	27.5	26.0	32.0	28.5	---	---
8	15.0	14.0	20.5	18.5	23.0	21.5	26.5	25.5	32.5	29.0	29.0	27.5
9	16.0	15.0	22.5	18.0	22.0	21.0	26.5	25.0	31.0	29.0	29.5	27.0
10	17.0	15.5	22.0	19.5	22.5	21.0	30.5	25.5	32.5	29.5	30.5	27.5
11	18.0	15.0	22.0	20.0	22.5	21.0	31.5	26.0	31.0	29.0	32.0	28.5
12	16.0	14.5	20.0	19.0	24.5	21.5	29.0	27.0	30.5	29.0	29.5	29.0
13	16.0	14.5	20.5	19.0	25.0	22.0	29.0	23.0	31.5	28.5	29.0	28.5
14	16.0	15.0	20.5	19.0	25.0	22.5	30.0	28.5	31.0	23.5	29.5	29.0
15	16.0	14.5	20.5	20.0	25.0	23.5	29.5	28.0	31.5	28.0	29.0	28.0
16	16.0	14.5	20.5	19.5	24.5	23.5	30.5	28.5	30.5	28.0	28.0	27.0
17	15.5	14.5	20.0	19.5	24.5	23.5	30.0	28.5	32.0	23.5	28.0	26.5
18	14.0	13.5	20.0	19.0	24.5	23.5	32.0	28.5	31.5	28.0	30.0	25.5
19	14.0	12.5	19.0	15.0	24.0	23.0	31.0	29.0	30.0	28.0	27.0	25.5
20	13.5	12.0	18.0	17.5	23.5	23.0	33.0	29.5	32.0	23.5	26.5	25.0
21	14.0	12.0	19.0	17.5	23.5	22.5	33.5	28.5	34.0	29.5	26.5	25.5
22	14.0	13.0	19.5	13.5	24.0	23.0	33.0	30.0	34.5	30.5	25.5	24.5
23	13.5	13.0	20.5	19.0	24.5	23.5	31.5	29.5	33.0	30.0	26.0	24.0
24	13.0	12.5	21.0	20.0	25.0	24.0	33.0	30.0	33.5	30.5	26.0	24.5
25	13.5	12.0	21.0	19.5	25.5	23.5	33.0	31.0	33.5	30.5	25.5	23.5
26	14.5	12.5	20.0	19.0	29.5	25.0	32.0	31.0	33.5	30.5	25.5	22.5
27	15.5	13.5	20.0	18.5	29.0	26.0	32.0	30.0	33.5	30.5	24.0	22.0
28	16.5	14.5	20.0	18.5	28.0	26.5	33.0	30.0	33.0	31.0	24.5	22.0
29	17.5	15.5	20.0	19.0	27.5	27.0	32.5	29.5	33.0	30.0	23.0	22.0
30	18.0	16.5	21.5	20.0	28.0	26.5	32.0	29.5	32.5	31.0	23.0	22.0
31	---	---	21.0	20.0	---	---	31.0	29.5	32.5	31.0	---	---
MONTH	18.0	11.0	22.5	17.5	29.5	20.5	33.5	25.0	34.5	28.0	32.0	22.0
YEAR	34.5	2.0										

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.6	5.7	8.5	7.3	8.6	8.2	10.0	9.5	10.9	10.6	10.5	10.3
2	6.2	5.7	8.3	6.9	8.5	8.2	9.8	9.5	10.8	10.1	10.6	10.4
3	6.8	5.6	7.7	6.8	8.2	7.6	10.1	9.8	10.3	9.8	10.5	10.2
4	6.9	5.1	7.7	6.8	7.6	7.3	10.5	10.0	10.3	9.8	10.2	9.9
5	7.3	5.1	7.2	5.6	7.4	7.2	10.6	10.4	10.9	10.1	9.9	9.5
6	5.6	4.6	7.3	6.7	7.8	7.3	10.7	10.3	10.8	10.7	9.5	8.7
7	5.3	4.5	7.7	6.9	7.7	7.5	10.6	10.3	11.1	10.7	8.7	8.0
8	6.2	4.6	7.6	7.2	8.4	7.6	10.5	9.9	11.4	11.1	8.0	7.7
9	5.7	4.8	7.6	7.0	9.0	8.2	9.8	8.6	11.5	11.4	8.7	8.0
10	5.4	4.6	9.0	7.7	9.0	8.3	9.1	7.3	11.4	11.3	9.1	8.5
11	5.3	4.1	9.0	8.5	9.5	8.8	10.2	9.1	11.3	11.1	9.7	8.9
12	5.1	4.0	8.5	8.2	9.9	9.4	10.8	9.4	11.2	11.0	10.1	9.5
13	5.3	4.5	8.3	8.0	10.3	9.9	10.4	9.4	11.1	10.8	10.1	9.9
14	6.1	4.7	8.1	7.7	10.8	10.2	10.9	10.4	10.8	10.7	9.9	9.8
15	6.2	5.5	7.8	7.3	10.8	10.5	11.3	11.1	10.7	10.6	10.0	9.7
16	5.9	5.4	8.2	7.4	10.5	10.0	11.3	10.8	10.9	10.7	9.7	9.2
17	6.2	5.3	9.4	8.4	10.1	9.9	11.1	10.8	10.8	10.5	9.2	8.9
18	6.6	5.8	9.6	9.1	10.3	10.0	11.2	10.5	10.6	10.3	8.9	8.7
19	6.6	6.1	9.1	8.9	10.5	10.1	11.7	10.6	10.5	10.2	8.7	8.5
20	7.6	6.6	8.3	8.6	10.3	10.0	11.7	10.0	10.5	10.2	8.7	8.5
21	7.7	7.2	8.7	8.5	10.4	10.1	11.9	10.9	10.2	9.9	8.8	8.5
22	7.3	6.9	8.5	8.1	10.6	10.2	12.2	11.3	9.9	9.8	8.9	8.5
23	7.1	6.9	8.1	8.0	10.4	10.2	12.4	12.0	10.0	9.8	9.1	8.9
24	7.7	7.0	8.4	8.1	10.3	10.0	12.4	12.1	9.9	9.6	9.5	9.0
25	7.2	6.8	8.3	8.1	10.0	9.7	12.1	12.0	9.7	9.5	9.8	9.5
26	7.3	6.7	8.7	8.4	9.8	9.3	12.0	11.9	9.8	9.6	10.3	10.0
27	7.5	6.6	8.9	8.4	9.3	8.6	11.9	11.8	10.3	9.8	10.4	10.2
28	8.2	7.5	8.8	8.6	9.1	8.7	11.9	11.6	10.4	10.1	10.3	9.7
29	7.9	7.5	8.8	8.0	9.2	8.9	11.7	11.5	---	---	10.1	9.8
30	7.7	7.4	8.2	8.0	9.3	9.0	11.7	11.4	---	---	10.2	9.9
31	7.2	7.3	---	---	9.7	9.2	11.3	10.9	---	---	10.2	10.0
MONTH	8.2	4.0	9.6	6.6	10.8	7.2	12.4	7.3	11.5	9.5	10.6	7.7
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10.1	9.9	8.6	8.3	7.4	6.9	5.4	4.7	6.3	4.4	5.7	4.1
2	10.0	9.7	8.4	7.8	7.5	6.9	5.7	5.0	7.1	4.5	4.5	4.1
3	9.6	9.3	7.8	7.3	7.5	6.9	6.2	5.2	5.6	4.5	---	---
4	9.3	9.2	7.7	7.3	7.5	6.9	7.7	5.1	5.9	4.1	---	---
5	9.5	9.1	7.9	7.4	7.2	6.8	6.0	5.1	5.6	4.7	---	---
6	9.6	9.2	8.2	7.5	7.1	6.5	5.7	5.5	5.6	4.6	---	---
7	9.4	9.1	8.5	7.9	7.0	6.0	6.0	5.5	7.2	4.7	---	---
8	9.3	8.9	8.7	8.1	6.6	6.0	7.2	6.0	9.6	4.9	6.0	4.8
9	9.1	8.2	8.9	7.9	6.7	6.3	6.8	6.5	7.6	4.5	6.1	4.4
10	8.8	8.0	8.0	7.3	7.1	6.7	8.9	6.7	5.6	3.9	6.2	5.0
11	8.3	8.2	7.8	7.3	7.3	6.7	10.2	6.8	5.7	4.4	8.9	5.3
12	8.5	8.0	7.9	7.5	7.5	6.8	8.7	6.3	4.9	4.2	6.8	4.5
13	8.4	7.9	7.8	7.3	7.5	6.8	6.7	5.2	6.0	4.3	5.9	4.8
14	8.7	8.0	7.3	7.3	7.0	6.6	5.4	5.1	6.3	4.6	5.1	4.6
15	8.8	8.3	7.7	7.3	7.1	6.7	6.0	5.1	7.2	4.1	5.9	4.9
16	8.7	8.3	7.7	6.8	7.0	6.5	6.8	5.1	5.1	4.3	6.4	5.2
17	9.1	8.5	6.8	6.2	6.9	6.4	5.8	5.1	6.3	4.1	7.5	5.6
18	9.1	8.9	6.9	6.4	6.9	6.1	10.1	5.6	6.5	4.5	8.6	5.7
19	9.2	8.9	7.6	6.6	6.5	5.9	6.8	5.3	5.4	4.2	8.1	5.9
20	9.4	9.0	7.5	7.0	6.5	5.5	7.2	5.2	5.4	3.8	7.2	5.6
21	9.8	9.4	7.2	6.6	5.6	5.2	7.0	5.1	6.0	3.6	5.6	5.4
22	9.3	9.4	6.9	6.7	5.7	5.4	7.1	4.8	8.5	4.4	6.2	5.3
23	9.5	9.4	6.8	6.2	5.8	5.3	6.5	4.5	6.4	3.7	6.4	5.7
24	9.4	8.3	6.7	6.3	5.8	5.1	6.2	4.8	4.8	3.2	6.3	5.5
25	8.8	8.1	7.0	6.4	5.8	5.2	7.3	5.5	4.3	3.3	6.6	5.3
26	8.9	8.6	7.3	6.7	6.6	5.4	6.9	4.5	4.8	3.6	7.5	5.6
27	9.1	8.8	7.1	6.4	6.6	5.4	5.1	4.1	6.7	3.6	7.4	6.0
28	9.0	8.8	7.9	6.9	5.7	4.5	6.0	4.3	5.8	3.9	6.2	5.4
29	9.0	8.7	7.7	7.2	5.3	4.7	6.8	4.6	6.5	4.6	6.2	5.3
30	8.9	8.4	7.8	6.8	5.3	4.8	7.2	4.4	9.2	5.9	6.7	5.9
31	---	---	7.2	6.9	---	---	6.3	4.3	6.6	4.6	---	---
MONTH	10.1	7.9	8.9	6.2	7.5	4.5	10.2	4.1	9.6	3.2	8.9	4.1
YEAR	12.4	3.2										

02398000 CHATTOOGA RIVER AT SUMMERVILLE, GA.

LOCATION.--Lat 34 28'03", long 85 20'19", Chattooga County, Hydrologic Unit 03150105, on left bank 600 ft downstream from bridge on U.S. Highway 27, 1 mi southeast of Summerville, and 4 mi upstream from Raccoon Creek.
DRAINAGE AREA.--192 mi².

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 613.47 ft, National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Prior to Nov. 12, 1937, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--46 years, 362 ft³/s, 25.60 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,500 ft³/s Mar. 29, 1951, gage height, 21.0 ft; minimum daily, 38 ft³/s Oct. 17, 1937, Nov. 9, 1939.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov. 29	1200	5790	14.88	Feb. 27	1700	4800	14.27
Dec. 2	0200	*13200	17.90	Apr. 6	1300	4130	13.63
Dec. 5	2400	3880	13.27	May 20	0900	4690	14.20

Minimum discharge, 79 ft³/s Oct. 1-3, 6, Sept. 30, gage height, 2.23 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	98	5870	411	406	320	531	295	306	191	107	180
2	81	85	7280	499	3590	302	625	273	279	271	105	110
3	80	207	1620	612	1870	286	630	270	260	183	104	112
4	85	179	1090	510	998	274	523	274	308	180	104	98
5	82	147	2550	445	740	278	620	252	309	250	105	96
6	81	128	2480	412	1100	1300	3280	238	274	200	105	109
7	84	118	1130	382	1080	763	1580	226	260	175	110	109
8	92	116	797	357	802	578	1290	221	238	163	103	100
9	90	112	635	348	673	476	1970	214	222	153	101	93
10	86	110	533	351	655	413	1540	207	211	147	101	90
11	87	106	946	335	917	371	1030	202	197	143	99	89
12	101	111	2100	312	727	342	782	203	188	142	100	90
13	246	117	1160	294	611	321	643	210	183	138	98	99
14	155	112	821	284	557	308	581	229	179	132	95	91
15	118	109	765	277	492	297	567	225	171	129	97	86
16	106	108	2070	263	439	281	486	574	169	122	97	86
17	100	124	1110	255	403	275	431	379	189	122	98	86
18	97	446	905	245	371	331	403	308	183	123	97	84
19	93	616	678	230	351	336	378	1560	209	122	96	85
20	95	392	571	221	330	342	352	4010	206	119	93	86
21	94	320	488	334	309	709	331	2580	185	113	91	97
22	90	394	424	787	355	514	316	1550	187	116	93	92
23	89	381	390	621	584	428	391	1280	217	113	92	86
24	87	325	367	532	449	424	652	344	176	112	93	83
25	89	272	443	452	396	423	469	642	175	114	93	82
26	86	236	400	400	355	337	399	531	166	116	92	82
27	86	215	377	391	332	1780	366	448	163	112	89	81
28	86	788	610	383	322	1430	341	390	166	110	89	81
29	87	4430	715	353	---	550	320	364	155	105	95	80
30	85	1300	547	358	---	660	307	362	150	105	92	79
31	83	---	467	339	---	613	---	326	---	106	90	---
TOTAL	3002	12192	40244	11996	20219	16412	22134	19684	6301	4435	3024	2822
MEAN	96.8	406	1298	387	722	529	738	635	210	143	97.5	94.1
MAX	246	4430	7280	787	3590	1780	3280	4010	309	271	110	180
MIN	80	85	367	221	309	274	307	200	150	105	89	79
CFSM	.50	2.12	6.76	2.02	3.76	2.76	3.84	3.31	1.09	.75	.51	.49
IN.	.56	2.36	7.80	2.32	3.92	3.18	4.29	3.81	1.22	.86	.59	.55

CAL YR 1982	TOTAL	175655	MEAN 491	MAX 13900	MIN 79	CFSM 2.51	IN 34.03
WTR YR 1983	TOTAL	162465	MEAN 445	MAX 7280	MIN 79	CFSM 2.32	IN 31.48

02398000 CHATTOOGA RIVER AT SUMMERVILLE, GA.--Continued

WATER-QUALITY RECORDS

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
26...	1530	87	460	473	8.0	8.0	13.5	22.0	7.4	72
NOV										
29...	1530	5110	76	78	7.0	7.1	13.0	18.0	9.2	90
DEC										
22...	1145	424	205	204	7.8	7.9	9.5	15.0	10.3	92
JAN										
26...	1300	396	215	195	8.0	7.8	8.5	7.0	10.4	90
FEB										
23...	1440	563	200	209	7.3	7.8	13.0	18.0	8.8	86
MAR										
29...	1430	813	145	150	7.8	7.8	11.0	16.0	10.6	98
APR										
26...	1540	394	215	214	7.5	7.8	15.0	26.0	9.9	100
MAY										
24...	1330	832	157	160	7.7	7.5	18.5	27.0	8.2	89
JUN										
23...	1800	166	385	363	7.6	7.8	23.0	30.0	4.6	55
JUL										
26...	1800	114	420	433	7.8	7.6	24.5	32.0	4.8	59
AUG										
30...	1745	92	465	481	8.0	8.0	24.5	38.0	7.4	90
SEP										
27...	1345	80	520	574	8.1	8.2	18.0	24.5	7.4	80

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS (MG/L AS CaCO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CaCO3)	ALKA- LINEITY LAB (MG/L AS CaCO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
26...	5	1.4	50	110	.00	170	1.3	1.00	.080	--
NOV										
29...	60	1.9	4300	32	8.0	24	.24	.030	.140	7.5
DEC										
22...	6	--	--	80	.00	85	.52	.090	.030	1.1
JAN										
26...	8	1.3	230	80	.00	80	.45	.050	.030	.8
FEB										
23...	25	3.3	4300	76	.00	83	.48	.060	.230	8.2
MAR										
29...	11	1.3	930	56	.00	57	.33	.030	.040	1.3
APR										
26...	10	1.5	230	74	.00	80	.41	.350	.050	1.6
MAY										
24...	17	--	3300	64	2.0	62	.37	.110	.110	2.4
JUN										
23...	8	--	330	110	.00	122	.68	.520	.270	3.8
JUL										
26...	9	2.4	270	120	.00	145	.81	.250	.140	4.3
AUG										
30...	5	1.6	40	110	.00	169	.56	.090	.130	3.5
SEP										
27...	5	.3	110	120	.00	177	.56	.050	.130	4.0

02398037 CHATTOOGA RIVER AT CHATTOOGAVILLE, GA.

LOCATION.--Lat 34°20'08", long 85°26'43", Chattooga County, Hydrologic Unit 03150105, at bridge on Holland-Chattoogaville Road, 0.4 mi downstream from Hinton Creek, and 0.7 mi south of Chattoogaville.

DRAINAGE AREA.--281 mi².

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
26...	1415	115	370	375	8.0	8.2	12.0	21.0	9.0	95
NOV										
29...	1430	5500	82	82	6.9	7.2	13.0	19.0	8.1	79
DEC										
22...	1030	640	205	196	7.7	7.7	9.0	14.5	9.8	86
JAN										
26...	1200	560	220	202	7.9	7.7	8.0	7.0	10.1	86
FEB										
23...	1400	1000	205	216	7.8	7.7	12.5	17.5	8.3	80
MAR										
29...	1345	1920	140	147	7.7	7.7	11.0	16.0	10.5	97
APR										
26...	1430	590	195	211	--	7.7	15.0	26.0	9.2	92
MAY										
24...	1240	1400	153	155	7.6	7.5	18.5	26.0	7.9	85
JUN										
29...	1700	255	300	292	7.7	7.9	24.0	29.0	6.4	77
JUL										
26...	1700	172	290	305	8.0	7.8	26.5	37.0	7.1	91
AUG										
30...	1545	114	410	418	7.9	7.9	26.0	39.5	8.1	102
SEP										
27...	1300	124	400	450	8.0	8.2	17.0	24.5	7.5	79

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	ALKA- LINITY LAB (MG/L AS CAC03)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT											
26...	5	1.5	60	110	.00	149	<1	1.1	.420	.260	--
NOV											
29...	80	2.4	15000	38	12	26	87	.27	.060	.210	9.5
DEC											
22...	8	--	--	80	.00	80	3	.53	.070	.080	1.7
JAN											
26...	8	.9	40	80	.00	80	4	.45	.050	.090	1.5
FEB											
23...	35	5.3	4300	78	.00	85	79	.41	.040	.400	12
MAR											
29...	15	1.1	750	58	.00	58	22	.35	.050	.080	2.4
APR											
26...	10	.9	790	78	.00	78	9	.62	.200	.130	2.0
MAY											
24...	20	--	2200	66	6.0	60	34	.39	.060	.090	3.4
JUN											
28...	8	--	140	110	.00	113	12	.64	.160	.240	1.9
JUL											
26...	9	1.2	270	120	3.0	117	10	.55	.030	.150	2.7
AUG											
30...	5	2.4	20	120	.00	148	7	.46	.040	.330	3.8
SEP											
27...	4	1.5	80	110	.00	158	3	.55	.020	.310	3.5

MOBILE RIVER BASIN

02411800 LITTLE RIVER NEAR BUCHANAN, GA.

LOCATION.--Lat 33°47'51", long 85°07'03", Haralson County, Hydrologic Unit 03150108, on right bank 300 ft upstream from county highway bridge, 4.5 mi east of Buchanan, and 7 mi upstream from mouth.

DRAINAGE AREA.--20.2 mi².

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

REVISED RECORDS.--WRD GA-80-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 1,110 ft, from topographic map.

REMARKS.--Records good except those affected by beaverdam, Oct. 20 to Nov. 18, which are poor.

AVERAGE DISCHARGE.--24 years, 34.3 ft³/s, 23.06 in/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,820 ft³/s Mar. 4, 1966, gage height, 12.58 ft, from rating curve extended above 2,300 ft³/s on basis of slope-area measurement at gage height, 12.47 ft; minimum, 1.6 ft³/s Oct. 5, 6, 1970.

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

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb. 2	0445	996	5.19	May 19	1615	*1400	7.01
Apr. 8	1500	816	4.29				

Minimum daily discharge, 2.1 ft³/s Aug. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	5.0	228	35	114	49	51	33	24	32	8.0	2.6
2	3.1	2.0	120	241	489	39	78	32	22	30	16	4.9
3	3.2	30	75	117	131	36	59	35	21	21	9.0	9.0
4	3.7	35	55	77	107	34	48	36	25	19	11	10
5	4.3	20	246	59	82	47	46	32	24	16	8.5	7.5
6	4.3	14	111	47	107	160	92	30	26	15	7.5	7.1
7	7.1	10	70	40	78	77	62	29	41	13	6.6	11
8	17	9.5	50	36	56	55	425	29	34	13	5.9	8.5
9	16	9.5	37	33	47	45	216	28	26	12	5.9	17
10	15	10	32	32	49	40	132	27	23	12	5.2	11
11	23	11	132	35	47	37	103	27	21	12	4.9	8.5
12	29	20	139	31	41	36	80	29	20	11	4.9	14
13	91	25	87	29	38	35	63	28	18	11	4.6	21
14	38	20	61	28	38	34	56	27	17	10	4.3	18
15	20	15	63	27	35	33	54	27	17	10	4.0	12
16	14	14	108	27	34	32	45	86	17	10	3.7	9.0
17	12	45	61	26	40	34	42	45	19	9.5	3.7	7.5
18	10	110	46	25	35	35	56	34	25	11	3.4	6.6
19	10	54	41	25	32	33	50	540	26	12	3.1	5.9
20	12	34	36	26	32	78	43	178	26	12	2.9	9.0
21	10	26	32	32	31	115	41	123	22	10	2.7	29
22	9.0	27	31	47	69	64	41	106	23	10	2.4	19
23	8.4	22	29	48	66	48	55	83	22	9.0	2.2	12
24	7.6	19	28	41	51	67	63	55	20	8.0	2.2	10
25	7.0	17	29	36	49	75	47	42	18	7.5	2.2	8.0
26	6.6	16	27	33	40	106	41	32	17	6.6	2.6	7.1
27	6.1	16	27	37	37	250	38	29	16	6.2	2.4	6.6
28	5.3	36	73	36	39	108	36	26	17	5.9	2.2	5.9
29	5.6	84	70	32	---	74	35	29	16	5.5	2.4	5.9
30	5.4	67	47	34	---	56	35	29	18	5.2	2.1	5.9
31	5.2	---	33	31	---	64	---	25	---	5.5	2.2	---
TOTAL	417.4	829.0	2284	1403	2014	1996	2233	1911	663	369.9	148.7	309.5
MEAN	13.5	27.6	73.7	45.3	71.9	64.4	74.4	61.6	22.1	11.9	4.80	10.3
MAX	91	110	246	241	489	250	425	540	41	32	16	29
MIN	3.0	5.0	27	25	31	32	35	25	16	5.2	2.1	2.6
CFSM	.67	1.37	3.55	2.24	3.56	3.19	3.68	3.05	1.09	.59	.24	.51
IN.	.77	1.53	4.21	2.58	3.71	3.68	4.11	3.52	1.22	.65	.27	.57
CAL YR 1982	TOTAL	14544.3	MEAN	39.3	MAX	800	MIN	2.6	CFSM	1.97	IN	26.78
WTR YR 1983	TOTAL	14573.5	MEAN	39.9	MAX	540	MIN	2.1	CFSM	1.93	IN	26.95

02411930 TALLAPOOSA RIVER BELOW TALLAPOOSA, GA.

LOCATION.--Lat 33°44'27", long 85°20'11", Haralson County, Hydrologic Unit 03150108, at bridge on U.S. Highway 78, 0.4 mi upstream from Walker Creek, and 2.7 mi west of Tallapoosa.

DRAINAGE AREA.--272 mi², revised.

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV 01...	1815	135	45	41	6.5	6.9	15.0	19.5	9.2	94
JAN 05...	1245	730	33	31	6.9	6.8	7.0	10.5	10.5	89
MAR 02...	1200	640	33	33	7.0	6.9	9.0	20.0	11.2	100
MAY 02...	1030	500	32	31	7.0	6.9	15.5	22.0	8.2	97
JUL 07...	1300	240	34	35	7.5	7.1	23.0	26.0	7.2	87
SEP 06...	1115	110	37	36	7.0	7.0	24.0	30.0	6.7	82

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINEITY LAB (MG/L AS CaCO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 01...	9	--	65	14	.05	.030	.030	--
JAN 05...	18	1.5	750	8.0	.22	.030	.020	<1.0
MAR 02...	14	.6	930	10	.13	.830	.120	3.7
MAY 02...	9	.6	220	11	.08	.030	.020	1.4
JUL 07...	12	.9	170	13	.19	<.020	.030	<1.0
SEP 06...	8	1.1	330	12	.13	.020	.080	4.4

MOBILE RIVER BASIN

02413210 LITTLE TALLAPOOSA RIVER BELOW BOWDON, GA.

LOCATION.--Lat 33°29'34", long 85°16'45", Carroll County, Hydrologic Unit 03150108, at bridge on State Highway 100, 1.9 mi up-stream from Indian Creek, and 3.8 mi southwest of Bowdon.

DRAINAGE AREA.--245 mi².

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
06...	1200	70	101	100	6.9	7.0	22.5	31.5	6.2	70
NOV										
01...	1715	112	76	76	6.5	6.9	14.5	--	8.6	87
DEC										
08...	1430	1550	48	45	--	6.6	13.0	18.0	8.0	77
JAN										
05...	1345	1280	43	41	6.7	6.8	7.5	13.5	9.7	83
FEB										
02...	1515	3800	37	36	6.5	6.4	11.0	11.0	9.3	58
MAR										
02...	1300	430	49	50	6.9	6.9	10.0	21.0	10.9	100
APR										
06...	1645	670	46	45	6.8	6.7	13.5	23.0	9.1	89
MAY										
02...	1130	370	47	47	6.9	6.8	19.0	25.0	7.9	87
JUN										
08...	1530	370	55	54	6.9	6.8	21.0	31.0	7.1	83
JUL										
07...	1150	112	54	56	7.2	7.0	23.0	26.0	6.8	82
AUG										
01...	1500	78	84	90	6.9	6.8	24.5	32.0	5.9	73
SEP										
06...	1215	96	74	74	--	7.3	24.0	32.0	6.2	76

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINEITY LAB (MG/L AS CAC03)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT								
06...	7	1.0	230	19	1.4	.110	1.36	2.0
NOV								
01...	8	--	--	19	.73	.120	.260	--
DEC								
08...	33	1.5	2300	10	.23	.060	.120	5.9
JAN								
05...	31	1.9	5900	9.0	.36	.090	.100	2.4
FEB								
02...	55	2.8	7500	6.0	.24	.130	.190	5.6
MAR								
02...	10	.9	90	13	.41	.140	.130	1.5
APR								
06...	16	1.5	4300	11	.33	.150	.210	2.0
MAY								
02...	10	1.0	50	15	.41	.080	.180	2.3
JUN								
08...	22	1.4	130	14	.58	.180	.240	3.0
JUL								
07...	10	.5	140	14	.20	<.020	.400	1.4
AUG								
01...	7	.9	170	15	1.4	.060	.440	3.7
SEP								
06...	10	1.0	490	15	.86	.060	.500	6.4

LAKES AND RESERVOIRS IN MOBILE RIVER BASIN

02381400 CARTERS LAKE.--Lat 34°36'50", long 84°40'16", Murray County, Hydrologic Unit 03150102, at forebay of dam on Coosawattee River, 1.3 mi upstream from Talking Rock Creek, 1.3 mi east of Carters, 1.9 mi upstream from Louisville and Nashville Railway bridge, and at mile 26.8. DRAINAGE AREA, 373 mi². PERIOD OF RECORD, November 1974 to current year. REVISED RECORDS, WRD GA-80-1: Drainage area. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

Lake is formed by rolled rock-filled dam. Emergency spillway, crest elevation, 1,070 ft, is equipped with five taintor gates 42 ft wide by 36.6 ft high. There is one sluice 16.5 ft in diameter. Storage began Nov. 12, 1974. Lake first reached minimum pool, elevation, 1,022 ft Mar. 17, 1975. Power operation began July 19, 1975. Capacity at primary flood control pool elevation, 1,099 ft, 472,800 acre-ft. Capacity at maximum power pool elevation, 1,072 ft, 377,100 acre-ft. Dead storage below elevation 1,022 ft, 242,200 acre-ft. Lake is used for flood control and power. Capacity table and monthend elevations furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 472,400 acre-ft Apr. 8, 1977, elevation, 1,099.16 ft; minimum, after first filling, 347,900 acre-ft Oct. 16, 1981, elevation, 1,062.90 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 414,000 acre-ft Dec. 13, elevation, 1,083.27 ft; minimum, 360,300 acre-ft Oct. 1, elevation, 1,066.95 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	1067.50	362000	-	-
Oct. 31.....	1073.00	379500	+17500	+285
Nov. 30.....	1073.85	382300	+2800	+47
Dec. 31.....	1070.76	372300	-10000	-163
CAL YR 1982	-	-	-1400	-2
Jan. 31.....	1072.20	376900	+4600	+75
Feb. 28.....	1071.07	373300	-3600	-65
Mar. 31.....	1070.50	371500	-1800	-29
Apr. 30.....	1072.50	377900	+6400	+108
May 31.....	1076.10	389700	+11800	+192
June 30.....	1073.15	380000	-9700	-163
July 31.....	1074.60	384700	+4700	+76
Aug. 31.....	1073.30	380500	-4200	-68
Sept. 30.....	1071.30	374000	-6500	-109
WTR YR 1983	-	-	+12000	+17

02382400 CARTERS RE-REGULATION DAM.--Lat 34°36'15", long 84°41'29", Murray County, Hydrologic Unit 03150102, at afterbay of main dam, on Coosawattee River, 0.2 mi downstream from Talking Rock Creek, 0.2 mi upstream from Louisville and Nashville Railway bridge, 1.5 mi downstream from main dam and at mile 25.3. DRAINAGE AREA, 520 mi². PERIOD OF RECORD, July 1975 to current year. REVISED RECORDS, WRD GA-80-1: Drainage area. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

Reservoir is formed by concrete gravity dam with earth dikes on either side. Spillway, crest elevation, 662.5 ft is equipped with four taintor gates 42 ft wide by 36.5 ft high. Capacity at maximum storage pool elevation, 698 ft, 17,600 acre-ft. Dead storage, 290 acre-ft. The reservoir is used for storage and re-regulation of power releases from Carters main dam. Capacity table and monthend elevations furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 18,800 acre-ft Apr. 14, 1977, elevation, 699.36 ft; minimum, 320 acre-ft June 6, 1983, elevation, 666.98 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 17,600 acre-ft Apr. 20, elevation, 698.19 ft; minimum, 320 acre-ft June 6, elevation, 666.98 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	695.69	15500	-	-
Oct. 31.....	685.88	7800	-7700	-125
Nov. 30.....	687.60	9000	+1200	+20
Dec. 31.....	695.14	15000	+6000	+98
CAL YR 1982	-	-	+6900	+10
Jan. 31.....	683.15	5900	-9100	-148
Feb. 28.....	691.04	11700	+5800	+104
Mar. 31.....	690.83	11500	-200	-3
Apr. 30.....	692.64	12900	+1400	+24
May 31.....	693.84	13900	+1000	+16
June 30.....	690.76	11500	-2400	-40
July 31.....	682.16	5300	-6200	-101
Aug. 31.....	685.68	7600	+2300	+37
Sept. 30.....	688.56	9800	+2200	+37
WTR YR 1983	-	-	-5600	-7

LAKES AND RESERVOIRS IN MOBILE RIVER BASIN--Continued

02393500 ALLATOONA RESERVOIR.--Lat 34°09'46", long 84°43'40", Bartow County, Hydrologic Unit 03150104, at forebay of dam on Etowah River, 2.8 mi upstream from Nashville, Chattanooga, & St. Louis Railway bridge, 4 mi east of Cartersville, and 6 mi upstream from Pumpkinvine Creek. DRAINAGE AREA, 1,120 mi², revised. PERIOD OF RECORD, December 1949 to current year. REVISED RECORDS, WRD GA-80-1: Drainage area. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

Lake is formed by concrete gravity dam. Spillway, crest elevation, 835.0 ft is equipped with nine taintor gates 40 ft wide by 25 ft high. There are four sluices 5.67 ft by 10 ft high and one sluice 4.0 ft 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, top of gates, is 670,000 acre-ft, of which 587,100 acre-ft is controlled storage above 800 ft, minimum pool. Lake is used for flood control and power. Records furnished by U.S. Army Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 693,800 acre-ft Apr. 10, 1964, elevation, 861.19 ft; minimum, 119,600 acre-ft Dec. 4, 1954, elevation, 809.34 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 422,800 acre-ft May 22, elevation, 844.43 ft; minimum, 216,000 acre-ft Jan. 21, elevation, 820.86 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Elevation (feet)	Contents (acre-feet)	Change in contents	
			(acre-feet)	(equivalent in cubic feet per second)
Sept. 30.....	835.79	319900	-	-
Oct. 31.....	835.34	315100	-4800	-78
Nov. 30.....	831.18	273000	-42100	-708
Dec. 31.....	828.40	247300	-25700	-418
CAL YR 1982	-	-	+43000	+59
Jan. 31.....	826.05	227100	-20200	-329
Feb. 28.....	831.76	278600	+51500	+927
Mar. 31.....	837.34	336900	+58300	+948
Apr. 30.....	842.20	394200	+57300	+963
May 31.....	841.76	388800	-5400	-88
June 30.....	841.41	384500	-4300	-72
July 31.....	839.52	361800	-22700	-369
Aug. 31.....	834.10	302100	-59700	-971
Sept. 30.....	834.40	305200	+3100	+52
WTR YR 1983	-	-	-14700	-20

03558000 TOCCOA RIVER NEAR DIAL, GA.

LOCATION.—Lat 34°47'24", long 84°14'24", Fannin County, Hydrologic Unit 06020003, on right bank 1.4 mi upstream from Shallowford Bridge, 1.8 mi upstream from Stanley Creek, 2.5 mi northwest of Dial, and at mile 69.1.

DRAINAGE AREA.—177 mi².

WATER-DISCHARGE RECORDS

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 1,782.08 ft, National Geodetic Vertical Datum of 1929. 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.—71 years, 498 ft³/s, 38.21 in/yr.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 14,700 ft³/s Aug. 23, 1967, gage height, 13.73 ft, from rating curve extended above 5,000 ft³/s on basis of slope-area measurement at gage height 11.20 ft, and a contracted-opening measurement at 13.73 ft; minimum, 60 ft³/s Sept. 6, 1925, gage height, 0.40 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of November 1906 reached a stage of 18.5 ft and is highest known since about 1840, from reports of Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 2,400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 5	1945	4270	6.62	Apr. 9	1815	4200	6.56
Feb. 2	0600	*4560	6.93	May 19	1415	2670	5.07
Mar. 6	0730	2900	5.32				

Minimum daily discharge, 157 ft³/s Aug. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1932 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	184	219	1240	673	479	577	803	838	668	402	401	365
2	180	218	1020	819	2810	553	1030	820	644	389	337	436
3	177	465	739	785	1130	542	946	780	628	374	300	355
4	175	464	653	707	869	531	886	750	354	361	262	338
5	178	337	2310	669	755	533	1090	727	764	391	245	278
6	174	296	1790	645	862	1800	1590	695	650	413	241	277
7	185	278	1110	621	789	985	1180	678	655	354	287	317
8	249	266	832	598	708	1070	1610	701	640	341	249	262
9	220	258	773	581	679	840	2880	664	680	332	236	264
10	218	251	705	579	694	773	2360	644	534	327	223	225
11	689	247	881	579	772	728	1680	628	554	319	223	213
12	332	329	1270	555	698	692	1420	619	531	312	279	216
13	1180	433	909	530	669	663	1290	627	516	305	230	292
14	593	320	782	521	657	643	1310	603	499	301	216	251
15	391	297	781	516	627	625	1550	613	489	294	209	221
16	331	281	1410	499	607	610	1300	322	480	293	208	205
17	299	287	996	493	591	637	1190	639	471	292	206	199
18	279	366	850	479	576	621	1160	594	579	312	206	193
19	267	373	833	465	563	593	1080	1570	607	292	196	191
20	264	349	773	470	547	663	1020	1480	535	286	193	251
21	271	355	716	715	536	1130	994	1340	488	274	187	595
22	252	429	673	727	756	772	967	1220	472	262	180	359
23	240	398	645	606	990	697	1030	1210	452	254	174	266
24	236	408	626	544	816	716	1240	1020	438	290	171	237
25	234	362	638	572	743	683	1020	904	428	313	173	224
26	232	344	616	495	696	699	972	835	411	295	180	215
27	229	334	594	479	650	1650	933	787	413	263	173	207
28	228	365	1040	470	601	1190	906	749	499	247	167	200
29	225	819	991	457	---	960	880	747	432	238	163	195
30	223	548	781	465	---	849	859	724	406	236	157	191
31	222	---	714	446	---	906	---	688	---	233	190	---
TOTAL	9160	10701	28746	17760	21920	24931	37181	25716	16470	9595	6862	5038
MEAN	295	357	927	573	783	804	1239	830	549	310	221	268
MAX	1180	819	2310	819	2810	1800	2880	1570	554	413	401	595
MIN	174	218	594	446	479	531	808	594	406	233	157	191
CFSM	1.67	2.02	5.24	3.24	4.42	4.54	7.00	4.69	3.10	1.75	1.25	1.51
IN.	1.93	2.25	6.04	3.73	4.61	5.24	7.81	5.40	3.46	2.02	1.44	1.69
CAL YR 1982	TOTAL	190205	MEAN	521	MAX	4040	MIN	174	CFSM	2.94	IN	39.93
WTR YR 1983	TOTAL	217080	MEAN	595	MAX	2880	MIN	157	CFSM	3.36	IN	45.62

TENNESSEE RIVER BASIN

03558000 TOCCOA RIVER NEAR DIAL, GA.--Continued

WATER-QUALITY RECORDS

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)
OCT 26...	1430	234	21	17	7.2	7.1	10.5
DEC 08...	1200	368	20	13	--	6.8	9.5
JAN 26...	0810	426	24	15	6.0	6.9	4.0
MAR 02...	1455	558	17	15	7.1	7.1	10.0
APR 13...	1145	1310	18	13	6.8	6.9	12.0
MAY 24...	1310	1020	--	15	--	6.7	16.0
JUL 06...	0700	427	19	17	5.8	6.8	18.0
AUG 16...	1420	212	18	18	7.1	7.2	19.5

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
OCT 26...	1545	234	10.5	4	2.5
DEC 08...	1515	352	9.5	20	46
JAN 26...	1015	486	4.0	2	2.6
MAR 02...	1630	558	10.0	5	7.5
MAY 24...	1425	1020	16.0	19	52
JUL 06...	0830	427	18.0	24	28
AUG 16...	1550	212	19.5	6	3.4

03566800 SOUTH CHICKAMAUGA CREEK AT GRAYSVILLE, GA.

LOCATION.--Lat 34°58'39", long 85°08'42", Catoosa County, Hydrologic Unit 06020001, at bridge on Graysville Road at Graysville, 200 ft above dam at Swanson Mill, and 19.5 mi above mouth.

DRAINAGE AREA.--198 mi².

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
NOV 30...	0800	950	110	113	7.1	7.5	12.0	7.0	9.4	89
JAN 26...	1545	590	175	162	8.0	7.8	7.0	9.0	11.6	97
MAR 30...	0700	590	--	132	7.7	7.7	10.0	5.0	10.1	91
MAY 24...	1615	960	131	132	7.6	7.5	19.0	30.0	8.0	88
JUN 29...	0845	135	250	250	7.9	7.9	23.0	27.0	7.0	83
JUL 27...	0715	104	250	266	7.9	7.9	24.5	23.0	7.0	86
SEP 28...	0700	142	245	264	8.1	8.1	16.5	9.0	8.6	90

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS (MG/L AS CaCO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CaCO3)	ALKA- LITY LAS (MG/L AS CaCO3)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 30...	44	2.4	15000	50	9.0	41	.42	.020	.150	10
JAN 26...	8	1.5	430	78	12	66	.55	.030	<.020	.8
MAR 30...	10	.7	--	79	21	57	.34	.040	.050	1.3
MAY 24...	25	--	1100	56	7.0	49	.34	.060	.060	4.2
JUN 29...	9	1.1	230	120	12	108	.47	.060	.030	<1.0
JUL 27...	8	.2	110	130	18	112	.51	.040	.060	2.0
SEP 28...	4	.6	80	130	14	116	.29	<.020	.110	<1.0

TENNESSEE RIVER BASIN

03567340 WEST CHICKAMAUGA CREEK NEAR LAKEVIEW, GA.

LOCATION.--Lat 34°57'26", long 85°12'20", Catoosa County, Hydrologic Unit 06020001, at Dyer Bridge on Cloud Springs Road, 3 mi southeast of Lakeview.

DRAINAGE AREA.--148 mi².

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

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	SPE- CIFIC CON- DUCT- ANCE LAB (UMHOS)	PH (STAND- ARD UNITS)	PH LAB (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	TEMPER- ATURE, AIR (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION)
OCT										
27...	0800	45	340	349	7.6	7.9	10.0	-1.0	10.2	92
NOV										
29...	1700	1400	140	140	7.2	7.4	13.0	18.0	7.5	73
DEC										
22...	1345	245	235	227	7.6	7.7	9.0	15.5	9.6	85
JAN										
26...	1500	320	240	216	7.9	7.7	8.0	9.0	10.6	91
FEB										
23...	1630	1000	180	191	7.8	7.8	11.5	16.5	9.4	89
MAR										
29...	1615	480	180	189	7.8	7.7	11.0	19.0	9.9	92
APR										
27...	0900	230	240	243	7.5	7.9	13.0	11.0	8.9	86
MAY										
24...	1540	900	200	188	7.6	7.6	18.0	30.0	7.6	82
JUN										
29...	0745	78	265	265	7.6	7.7	23.5	24.5	4.7	56
JUL										
27...	0630	58	270	290	7.6	7.6	25.0	22.5	3.5	44
AUG										
31...	0645	40	310	311	7.5	--	24.0	21.0	4.9	60
SEP										
27...	1545	39	--	303	7.7	7.9	17.0	25.0	5.5	58

DATE	TUR- BID- ITY (JTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	HARD- NESS (MG/L AS CaCO3)	HARD- NESS, NONCAR- BONATE (MG/L AS CaCO3)	ALKA- LINITY LAB (MG/L AS CaCO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)
OCT								
27...	8	27	2.5	230	120	.00	150	7
NOV								
29...	110	44	3.1	9300	68	15	53	178
DEC								
22...	10	10	--	--	120	20	100	11
JAN								
26...	12	9	1.3	230	110	15	95	12
FEB								
23...	74	18	2.2	4300	36	1.0	85	105
MAR								
29...	21	11	1.1	930	92	10	82	25
APR								
27...	11	9	.7	220	110	7.0	103	14
MAY								
24...	26	13	--	1100	96	19	77	33
JUN								
29...	13	8	1.4	230	120	4.0	116	22
JUL								
27...	8	--	.8	330	130	6.0	124	--
AUG								
31...	9	--	1.1	170	130	.00	130	23
SEP								
27...	9	--	1.3	70	120	.00	130	19

03567340 WEST CHICKAMAUGA CREEK NEAR LAKEVIEW, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DATE	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARSON, ORGANIC TOTAL (MG/L AS C)
OCT					
27...	.30	.030	.80	.810	--
NOV					
29...	.33	.110	1.50	.400	13
DEC					
22...	.87	.070	.30	.090	<1.0
JAN					
25...	.64	.060	.20	.110	1.3
FEB					
23...	.44	.070	.70	.200	10
MAR					
29...	.40	.060	.30	.170	4.1
APR					
27...	.39	.050	.10	.190	2.5
MAY					
24...	.39	.080	.50	.110	4.1
JUN					
29...	.72	.090	.50	.500	2.3
JUL					
27...	.67	.050	--	.660	4.6
AUG					
31...	.42	.080	--	1.30	4.2
SEP					
27...	.63	.060	--	1.27	6.0

TENNESSEE RIVER BASIN

03568933 LOOKOUT CREEK NEAR NEW ENGLAND, GA.

LOCATION.—Lat 34°53'51", long 85°27'47", Dade County, Hydrologic Unit 06020001, at bridge on county road, 0.5 mi downstream of Squirrel Town Creek, 2.2 mi southeast of New England, and at mile 16.3.

DRAINAGE AREA.—149 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—August 1979 to current year.

GAGE.—Water-stage recorder. Datum of gage is 663.80 ft, National Geodetic Vertical Datum of 1929 (levels by Tennessee Valley Authority).

REMARKS.—Records good.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 20,000 ft³/s Aug. 17, 1982, gage height, 20.73 ft; minimum daily discharge, 16 ft³/s Sept. 29 to Oct. 3, 1981.

EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 3,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec. 1.	0845	*9800	16.92	Apr. 6	0030	5300	14.62
Feb. 2	1545	3620	13.43	May 20	0030	3360	13.13
Mar. 6	1530	3580	13.40				

Minimum daily discharge, 18 ft³/s Sept. 26-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	32	7370	335	354	292	269	142	192	81	39	25
2	31	33	3170	328	3330	245	413	131	165	77	39	26
3	31	49	1060	431	1460	211	422	127	142	93	37	27
4	31	34	745	349	841	185	345	124	212	88	37	27
5	31	32	1340	306	641	241	1500	111	211	105	35	24
6	30	68	1190	273	861	3160	4040	100	160	90	35	23
7	30	60	747	243	783	1350	1450	93	133	73	34	22
8	33	56	568	212	640	820	1090	97	120	65	35	21
9	36	52	449	235	552	623	1350	89	106	61	33	21
10	36	50	365	238	555	507	1060	83	97	59	33	21
11	34	43	979	214	700	412	792	92	90	58	32	22
12	37	49	1910	190	583	344	642	96	85	56	32	21
13	71	54	989	167	490	290	536	91	85	54	31	20
14	71	55	698	156	436	256	500	85	77	53	30	20
15	53	52	798	146	371	223	703	102	73	52	30	20
16	46	50	1670	132	320	195	568	333	74	55	29	19
17	43	56	941	124	278	179	477	296	34	61	29	19
18	42	172	693	115	237	191	427	207	75	67	28	19
19	40	273	574	104	208	189	370	2100	164	55	28	19
20	39	228	461	101	182	191	313	2150	26	51	27	19
21	39	177	372	238	159	409	269	1150	75	49	27	19
22	37	197	307	564	365	312	237	1380	70	48	26	20
23	36	198	263	471	1500	268	273	1840	115	46	26	19
24	35	182	236	403	743	263	319	1060	85	45	25	19
25	34	159	240	337	573	270	260	738	73	45	25	19
26	33	133	217	288	450	240	227	578	68	46	25	18
27	33	115	194	279	374	404	205	456	65	43	25	18
28	32	405	629	282	327	449	186	366	63	41	24	18
29	32	1380	675	249	---	369	167	307	61	40	25	18
30	31	666	494	259	---	319	153	290	60	39	24	18
31	31	---	403	239	---	301	---	235	---	39	26	---
TOTAL	1170	5214	30752	8058	18318	13708	19563	15039	3166	1835	931	621
MEAN	37.7	174	992	260	654	442	652	485	106	59.2	30.0	20.7
MAX	71	1380	7370	564	3330	3160	4040	2150	212	105	39	27
MIN	30	32	194	101	159	179	153	82	60	39	24	18
CFSM	.25	1.17	6.66	1.75	4.39	2.97	4.38	3.26	.71	.40	.20	.14
IN.	.29	1.30	7.68	2.01	4.57	3.42	4.88	3.75	.79	.46	.23	.16
CAL YR 1982	TOTAL	124289	MEAN	341	MAX	10100	MIN	28	CFSM	2.29	IN	31.03
WTR YR 1983	TOTAL	118375	MEAN	324	MAX	7370	MIN	18	CFSM	2.17	IN	29.55

TENNESSEE RIVER BASIN

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03568933 LOOKOUT CREEK NEAR NEW ENGLAND, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—April 1979 to October 1981.

PERIOD OF DAILY RECORD.—

WATER TEMPERATURES: November 1980 to current year.

INSTRUMENTATION.—Water-temperature recorder since November 1980.

REMARKS.—No daily water-temperature record June 17 to Sept. 30.

EXTREMES FOR PERIOD OF DAILY RECORD.—

WATER TEMPERATURES: Maximum recorded, 26.5°C July 15, 16, 1981; minimum, 0.5°C Jan. 13, 1981.

EXTREMES FOR CURRENT YEAR.—

WATER TEMPERATURES: Maximum recorded, 20.5°C May 14; minimum, 4.5°C Jan. 19-21.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

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

TENNESSEE RIVER BASIN

03568933 LOOKOUT CREEK NEAR NEW ENGLAND, GA.--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	13.5	10.5	20.0	17.5	16.5	15.5						
2	13.0	11.5	19.5	18.0	17.5	15.0						
3	11.5	10.5	18.5	17.0	18.5	16.0						
4	13.0	10.0	13.5	16.0	19.5	17.0						
5	12.5	11.5	18.5	15.5	19.5	18.0						
6	13.0	11.5	19.0	15.0	19.5	18.5						
7	14.0	13.0	19.5	15.5	18.5	17.5						
8	14.5	13.5	18.5	17.0	18.5	16.5						
9	15.0	14.0	18.5	16.0	18.5	16.5						
10	14.0	12.5	19.0	15.5	19.5	17.0						
11	14.0	11.5	13.5	17.0	19.5	17.5						
12	15.0	12.0	18.0	17.0	19.5	17.5						
13	16.5	13.5	20.0	17.5	20.0	17.5						
14	15.5	15.0	20.5	18.0	19.5	18.0						
15	15.0	13.5	20.0	18.0	19.5	18.0						
16	14.0	12.0	19.0	16.5	19.0	18.5						
17	14.5	11.5	16.5	15.5	---	---						
18	13.5	11.5	16.0	14.5	---	---						
19	12.5	10.0	15.5	15.0	---	---						
20	13.0	10.0	15.5	15.0	---	---						
21	13.5	10.5	16.0	15.0	---	---						
22	12.5	12.0	16.0	15.5	---	---						
23	13.0	12.0	16.5	15.5	---	---						
24	13.0	12.5	17.0	15.5	---	---						
25	15.0	11.5	16.5	14.5	---	---						
26	15.5	12.5	16.0	14.5	---	---						
27	17.0	13.5	16.0	14.0	---	---						
28	17.5	14.5	16.0	14.5	---	---						
29	18.0	15.5	16.0	14.5	---	---						
30	18.5	16.0	17.0	15.5	---	---						
31	---	---	18.0	16.0	---	---						
MONTH	18.5	10.0	20.5	14.0	20.0	15.0						

LAKES IN TENNESSEE RIVER BASIN

03553000 NOTTELY LAKE.--Lat 34°57'29", long 84°05'22", Union County, Hydrologic Unit 06020002, at dam on Nottely River, 1.3 mi upstream from Dooley Creek, 1.7 mi southwest of Ivylog, 2.5 mi upstream from Georgia-North Carolina State line, and at mile 21.0. DRAINAGE AREA, 214 mi². PERIOD OF RECORD, January 1942 to current year. GAGE, water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929.

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, top of flashboards, is 87,900 ft³/s-days, of which 59,100 ft³/s-days is controlled storage above elevation 1,735.00 ft, normal minimum pool. Lake is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 94,100 ft³/s-days Apr. 20, 1943, elevation, 1,780.50 ft; maximum elevation, 1,781.47 ft May 28, 1973; minimum (after first filling), 200 ft³/s-days Oct. 6, 1947, elevation, 1,638.6 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 81,500 ft³/s-days May 21, elevation, 1,776.86 ft; minimum, 39,100 ft³/s-days Jan. 20, elevation, 1,746.76 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Elevation (feet)	Contents (cfs-days)	Change in contents	
			(cfs-days)	(equivalent in cubic feet per second)
Sept. 30.....	1756.61	49900	-	-
Oct. 31.....	1753.91	46700	-3200	-103
Nov. 30.....	1751.81	44400	-2300	-77
Dec. 31.....	1751.86	44400	0	0
CAL YR 1982	-	-	+4600	+13
Jan. 31.....	1747.43	39800	-4600	-148
Feb. 28.....	1750.70	43200	+3400	+121
Mar. 31.....	1759.19	53100	+9900	+319
Apr. 30.....	1774.61	77000	+23900	+797
May 31.....	1776.03	79800	+2800	+90
June 30.....	1775.15	78100	-1700	-57
July 31.....	1770.33	69500	-8600	-277
Aug. 31.....	1761.71	56400	-13100	-423
Sept. 30.....	1759.58	53600	-2800	-93
WTR YR 1983	-	-	+3700	+10

03558500 BLUE RIDGE LAKE.--Lat 34°52'52", long 84°16'49", Fannin County, Hydrologic Unit 06020003, 400 ft upstream from Blue Ridge Dam on Toccoa River, 2.5 mi northeast of Blue Ridge, and at mile 53.0. DRAINAGE AREA, 232 mi². 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 Tennessee Electric Power Co. datum; to convert to National Geodetic Vertical Datum of 1929, subtract 0.18 ft from elevations given herein.

Lake is formed by earth dam. Spillway equipped with five taintor gates 15 ft high by 22 ft wide. Dam completed and storage began Dec. 6, 1930. Total capacity at elevation 1,691.00 ft, top of gates, is 98,800 ft³/s-days, of which 92,800 ft³/s-days is controlled storage above 1,590.00 ft, normal minimum pool. Lake is used for power and recreation. Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD: Maximum contents recorded, 102,100 ft³/s-days Feb. 11, 1946, elevation, 1,691.54 ft; minimum (after first filling), 6,500 ft³/s-days Jan. 16, 1956, elevation, 1,587.75 ft.

EXTREMES FOR CURRENT YEAR: Maximum contents, 93,000 ft³/s-days May 20, elevation, 1,687.35 ft; minimum, 40,700 ft³/s-days Nov. 28, elevation, 1,647.81 ft.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

Date	Elevation (feet)	Contents (cfs-days)	Change in contents	
			(cfs-days)	(equivalent in cubic feet per second)
Sept. 30.....	1664.30	59500	-	-
Oct. 31.....	1654.90	48700	-10800	-348
Nov. 30.....	1649.10	42600	-6100	-203
Dec. 31.....	1665.20	60600	+18000	+581
CAL YR 1982	-	-	+32500	+89
Jan. 31.....	1656.69	50600	-10000	-323
Feb. 28.....	1662.44	57200	+6600	+236
Mar. 31.....	1678.84	79400	+22200	+716
Apr. 30.....	1686.52	91800	+12400	+413
May 31.....	1685.99	90900	-900	-29
June 30.....	1685.67	90400	-500	-17
July 31.....	1678.75	79300	-11100	-358
Aug. 31.....	1671.17	68400	-10900	-352
Sept. 30.....	1670.10	67000	-1400	-47
WTR YR 1983	-	-	+7500	+21

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

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum	
						Gage height (feet)	Dis-charge (ft ³ /s)
Savannah River Basin							
02191280	Mill Shoal Creek near Royston, Ga.	Lat 34°16'13", long 83°06'08", Hart County, Hydrologic Unit 03060103, at culvert on State Highway 17, 1.2 miles southeast of Royston.	0.32	1964-83	4-9-83	2.68	44
02191300	Broad River above Carlton, Ga. (Prior to 1918 published as near Carlton.)	Lat 34°04'24", long 83°00'12", Madison-Elbert County line, Hydrologic Unit 03060104, at State Highway 72, 2.8 miles northeast of Carlton.	760	1898-1912, 1913-18g, 1920-83g	4-9-83	14.73	8,200
02191930	Buffalo Creek near Lexington, Ga.	Lat 33°46'40", long 83°03'01", Oglethorpe County, Hydrologic Unit 03060104, at culvert on State Highway 22, 7 miles southeast of Lexington.	5.80	1964-83	4-9-83	8.82	1,460
02192300	Hog Fork Fishing Creek tributary near Tignall, Ga.	Lat 33°49'05", long 82°45'21", Wilkes County, Hydrologic Unit 03060104, at culvert on State Highway 17, 4.2 miles south of Tignall.	.097	1959-83	3-6-83	8.16	68
02196570	Raes Creek tributary No. 2 at Augusta, Ga.	Lat 33°30'19", long 82°02'34", Richmond County, Hydrologic Unit 03060106, at culvert on Skinner Mill Road at junction with Boy Scout Road, at Augusta.	.66	1979-83	9-13-83	8.27	(†)
02196605	Raes Creek tributary No. 1 at Augusta, Ga.	Lat 33°29'36", long 82°02'17", Richmond County, Hydrologic Unit 03060106, at culvert on Boy Scout Road at Augusta.	1.67	1979-83	5-31-79 10-4-79 8-12-81 5-24-82 9-13-83	7.34 7.06 6.90 7.81 7.07	986 765 655 1,460 772
02196725	Oates Creek at Augusta, Ga.	Lat 33°27'19", long 82°00'23", Richmond County, Hydrologic Unit 03060106, at culvert on White Road at Augusta.	2.13	1979-83	11-30-82	5.88	(†)
02196730	Oates Creek at Old Savannah Road, at Augusta, Ga.	Lat 33°26'39", long 81°59'39", Richmond County, Hydrologic Unit 03060106, at culvert on Old Savannah Road, at Augusta.	4.60	1979-83	7-22-79 3-12-80 8-12-81 5-30-82 9-13-83	5.84 6.52 6.55 6.51 7.57	204 250 252 239 339
02196760	Rocky Creek tributary at Augusta, Ga.	Lat 33°27'07", long 82°02'57", Richmond County, Hydrologic Unit 03060106, at culvert on U.S. Highways 78 and 278 at Augusta.	1.65	1979-83	9-13-83	4.99	356
02196850	Butler Creek tributary at Augusta, Ga.	Lat 33°25'00", long 82°04'41", Richmond County, Hydrologic Unit 03060106, at culvert on Meadowbrook Drive, at Augusta.	.30	1979-83	5-10-79 10-4-79 2-10-81 2-16-82 8-6-83	13.80 11.32 10.37 9.17 9.24	178 132 102 56 59
02197190	McBean Creek near McBean, Ga.	Lat 33°14'12", long 82°02'38", Richmond-Burke County line, Hydrologic Unit 03060106, at State Highway 21, 5.5 miles west of McBean.	41.4	1963-83	2-14-83	4.21	262
02198532	Ebenezer Creek tributary near Kildare, Ga.	Lat 32°33'04", long 81°22'15", Effingham County, Hydrologic Unit 03060109, at culvert on Clio Road, near Kildare.	41.11	1979-83	9-4-79 3-13-80 6-11-81 2-12-82 3-6-83	1.10 .86 1.58 .99 1.11	31 18 60 24 32

† Discharge not determined.

a Approximately.

g Maximum gage heights computed from graph based on gage readings.

Crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis- charge (ft ³ /s)
Ogeechee River Basin							
02200400	Rocky Comfort Creek near Grange, Ga.	Lat 33°06'09", long 82°34'02", Jefferson County, Hydrologic Unit 03060201, at State Highway 88, 1.5 miles northeast of Grange.	188	1979-83	4-11-83	12.80	2,280
02200930	Ogeechee River tributary near Louisville, Ga.	Lat 32°55'20", long 82°18'49", Jefferson County, Hydrologic Unit 03060201, at culvert on State Highway 17, 8.5 miles southeast of Louisville.	14.2	1965-83	3-6-83	6.70	910
02200950	Ogeechee River near Wadley, Ga.	Lat 32°52'11, long 82°19'11", Jefferson County, Hydrologic Unit 03060201, at bridge on State Highway 78, 4.5 miles east of Wadley.	a990	1970-83	4-13-83	12.63	9,890
02201350	Buckhead Creek near Waynesboro, Ga.	Lat 32°58'21", long 82°07'15", Burke County, Hydrologic Unit 03060201, at State Highway 56, 10 miles southwest of Waynesboro.	a64	1963-83	2-8-67	5.01	c424
					12-28-67	4.68	c292
					5-19-67	5.68	c728
					3-15-71	5.43	c595
					3-16-76	5.19	c496
					4-1-81	5.22	c508
					1-2-82	5.45	c605
	3-7-83	7.60	2,950				
02201800	Richardson Creek near Millen, Ga.	Lat 32°43'23", long 81°58'35", Jenkins County, Hydrologic Unit 03060202, at State Highway 67, 6 miles south of Millen.	a43	1963-83	2-14-83	4.41	610
02202000	Ogeechee River at Scarboro, Ga.	Lat 32°42'38", long 81°52'46", Jenkins County, Hydrologic Unit 03060202, at abandoned highway bridge at Scarboro, 7.5 miles southeast of Millen.	a1,940	1938-71†, 1972-83	3-9-83	9.87	10,900
02202605	Mill Creek near Pembroke, Ga.	Lat 32°09'39", long 81°36'15", Bryan County, Hydrologic Unit 03060202, at culvert on State Highway 119, near Pembroke.	a3.53	1979-83	9-4-79	3.48	178
					3-13-80	2.79	158
					6-12-81	2.09	95
					7-12-81	2.19	104
					3-17-83	2.44	129
02202865	Canoochee River near Metter, Ga.	Lat 32°31'20", long 82°05'25", Candler County, Hydrologic Unit 03060203, at State Highways 23 and 121, 5 miles south of Metter.	202	1970-83	4-1-70	10.43	2,400
					3-26-71	10.75	2,880
					2-3-72	10.07	1,970
					2-4-73	10.14	2,040
					2-17-74	9.59	1,490
					5-3-75	10.42	2,380
					6-22-76	8.90	930
					10-20-76	9.86	1,760
					1-26-78	11.06	3,420
					2-27-79	11.30	3,900
					3-15-80	11.46	4,220
					2-19-81	8.15	e600
					6-5-82	9.39	1,310
					2-16-83	10.46	2,440
02202900	Fifteen Mile Creek near Metter, Ga.	Lat 32°23'33", long 82°00'55", Candler County, Hydrologic Unit 03060203, at State Highway 46, 2.5 miles east of Metter.	147	1963-83	2-16-83	6.04	1,620
02202910	Ten Mile Creek tributary at Pulaski, Ga.	Lat 32°23'18", long 81°58'17", Candler County, Hydrologic Unit 03060203, at culvert on State Highway 46, 0.8 mile west of Pulaski.	1.14	1965-83	2-14-83	3.52	68
02203280	Canoochee River near Daisy, Ga.	Lat 32°08'54", long 81°46'54", Evans County, Hydrologic Unit 03060203, at U.S. Highway 280, 3 miles east of Daisy.	833	1970-83	2-19-83	12.89	6,450

† Operated as a continuous-record gaging station.

a Approximately.

c Revised.

e Estimated.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum	
						Gage height (feet)	Dis-charge (ft ³ /s)
Ogeechee River Basin--Continued							
02203540	Grove River tributary near Savannah, Ga.	Lat 31°58'28", long 81°13'10", Chatham County, Hydrologic Unit 03060204, at culvert on Grove Point Road, near Savannah.	a0.67	1979-83	9-4-79	5.64	92
					6-21-80	5.11	81
					8-12-81	7.19	109
					8-13-82	6.19	101
					4-23-83	5.93	98
02203541	Harmon Canal tributary at Savannah, Ga.	Lat 32°00'02", long 81°06'49", Chatham County, Hydrologic Unit 03060204, at culvert on Hodgson Memorial Drive, at Savannah.	a0.13	1979-83	7-7-79	5.99	70
					9-6-80	6.00	70
					8-12-81	6.98	78
					7-11-82	6.32	73
					9-1-83	7.03	78
Altamaha River Basin							
02203800	South River at Atlanta, Ga.	Lat 33°40'46", long 84°18'30", DeKalb County, Hydrologic Unit 03070103, at Bouldercrest Drive at Atlanta.	41.5	1951-83	4-8-83	9.35	5,030
02203835	Shoal Creek near Atlanta, Ga.	Lat 33°44'48", long 84°16'50", DeKalb County, Hydrologic Unit 03070103, at culvert on Line Street near Atlanta.	3.43	1974-83	3-5-83	7.99	1,390
02203845	Shoal Creek tributary near Atlanta, Ga.	Lat 33°43'05", long 84°15'45", DeKalb County, Hydrologic Unit 03070103, at culvert on Glendale Drive near Atlanta.	.84	1973-78, 1980-83	3-5-83	6.92	751
02203884	Conley Creek near Forest Park, Ga.	Lat 33°38'08", long 84°20'37", Clayton County, Hydrologic Unit 03070103, at culvert on Rock Cut Road near Forest Park.	1.88	1973-78, 1980-82	3-5-83	10.3	(†)
02204135	Camp Creek tributary near Stockbridge, Ga.	Lat 33°34'35", long 84°08'50", Henry County, Hydrologic Unit 03070103, at culvert on State Highway 155, 5 miles northeast of Stockbridge.	.28	1977-83	4-8-83	4.36	28
02206500	Yellow River near Snellville, Ga.	Lat 33°51'11", long 84°04'45", Gwinnett County, Hydrologic Unit 03070103, on left bank at downstream side of county highway bridge, 3.2 miles west of Snellville.	134	1943-71†, 1973-83	4-8-83	14.70	4,980
02211300	Towaliga River near Jackson, Ga.	Lat 33°15'50", long 84°04'17", Butts County, Hydrologic Unit 03070103, at bridge on State Highway 16, 6.5 miles west of Jackson.	a105	1961-71†, 1972-83	4-8-83	10.66	2,500
02213350	Tobesofkee Creek below Forsyth, Ga.	Lat 32°59'37", long 83°56'41", Monroe County, Hydrologic Unit 03070103, at State Highway 42, 3 miles west of Forsyth.	53.4	1963-72, 1974-83	4-8-83	2.03	2,780
02214280	Savage Creek near Bullard, Ga.	Lat 32°35'34", long 83°28'11", Twiggs County, Hydrologic Unit 03070104, at U.S. Highway 23, 3 miles southeast of Bullard.	33.0	1979-83	4-2-81 2-4-82 2-15-83	c9.47 c10.36 10.29	c582 (†) (†)
02214820	Mossy Creek near Perry, Ga.	Lat 32°31'15", long 83°43'23", Houston County, Hydrologic Unit 03070104, at U.S. Highway 41, 4.5 miles north of Perry.	92.9	1979-83	3-7-83	9.35	(†)
02215245	Folsom Creek tributary near Rochelle, Ga.	Lat 32°00'15", long 83°25'58", Wilcox County, Hydrologic Unit 03070104, at culvert on State Highway 233, 4 miles north of Rochelle.	1.44	1965-83	3-6-83	3.62	156

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

a Approximately.

c Revised.

Crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Altamaha River Basin--Continued							
02217400	Mulberry River tributary near Winder, Ga.	Lat 34°03'53", long 83°39'45", Jackson County, Hydrologic Unit 03070101, at culvert on State Highway 11, 6 miles northeast of Winder.	2.68	1965-83	2-2-83	2.80	360
02217505	Brooklyn Creek at Athens, Ga.	Lat 33°56'32", long 83°24'07", Clarke County, Hydrologic Unit 03070101, at culvert on Dudley Drive, at Athens.	1.44	1979-83	4-13-79 5-20-80 9-4-81 8-17-82 9-2-83	9.89 10.59 9.61 9.22 10.35	531 723 474 431 651
02217506	Brooklyn Creek tributary at Athens, Ga.	Lat 33°56'26", long 83°23'48", Clarke County, Hydrologic Unit 03070101, at culvert on McWhorter Road, at Athens.	.20	1979-83	4-13-79 5-20-80 4-20-81 8-17-82 4-8-83	4.11 4.27 3.15 3.73 3.98	85 94 35 66 78
02217730	Tributary of North Oconee River tributary No. 2 at Athens, Ga.	Lat 33°58'16", long 83°23'59", Clarke County, Hydrologic Unit 03070101, at culvert on U.S. Highway 29, at Athens.	.30	1979-83	4-13-79 5-20-80 9-4-81 8-17-82 4-8-83	8.38 9.93 10.50 8.82 8.20	97 192 221 123 86
02217750	North Oconee River tributary at Athens, Ga.	Lat 33°58'11", long 83°23'14", Clarke County, Hydrologic Unit 03070101, at culvert on Barber Street at Athens.	.35	1979-83	4-8-83	3.42	101
02217905	Tanyard Creek at Athens, Ga.	Lat 33°57'05", long 83°22'42", Clarke County, Hydrologic Unit 03070101, at culvert on Baxter Street at Athens.	.56	1979-83	9-2-83	6.14	213
02217990	Cedar Creek tributary near Whitehall, Ga.	Lat 33°55'02", long 83°20'05", Clarke County, Hydrologic Unit 03070101, at culvert on Forest Road near Whitehall.	.30	1979-83	7-21-79 5-20-80 2-11-81 5-22-82 4-8-83	7.62 7.48 3.03 4.47 6.86	(†) (†) 42 81 (†)
02218450	Town Creek near Greensboro, Ga.	Lat 33°38'29", long 83°13'36", Greene County, Hydrologic Unit 03070101, at State Highway 15, 5 miles northwest of Greensboro.	11.9	1964-83	4-9-83	8.66	1,300
02223349	Big Sandy Creek tributary near Irwinton, Ga.	Lat 32°48'11", long 83°13'37", Wilkin-son County, Hydrologic Unit 03070102, at culvert on county road, 1.7 miles southwest of Irwinton.	a0.50	1978-83	2-14-83	2.40	33
02223360	Big Sandy Creek near Irwinton, Ga.	Lat 32°45'59", long 83°10'05", Wilkin-son County, Hydrologic Unit 03070102, at bridge on U.S. Highway 411, 2 miles south of Irwinton.	177	1970-83	1-26-78 2-24-79 3-13-80 4-1-81 2-4-82 2-14-83	5.82 5.71 6.20 4.16 5.46 5.96	c3,380 c3,220 c4,000 c1,160 c2,840 3,590
02225150	Ohoopsee River near Wrightsville, Ga.	Lat 32°42'50", long 82°45'20", Johnson County, Hydrologic Unit 03070107, at U.S. Highway 319, 2.5 miles west of Wrightsville.	a55	1963-83	2-14-83	8.65	1,770
02225250	Little Ohoopsee River near Swainsboro, Ga.	Lat 32°33'44", long 82°28'03", Emanuel County, Hydrologic Unit 03070107, at U.S. Highway 80, 9 miles west of Swainsboro.	216	1970, 1972, 1980-83	2-15-83	8.03	3,540

† Discharge not determined.

a Approximately

c Revised.

Crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Altamaha River Basin--Continued							
02225320	Ohoopsee River near Aline, Ga.	Lat 32°20'53", long 82°14'52", Candler-Emanuel County line, Hydrologic Unit 03070107, at bridge on county road, 5 miles west of Aline.	698	1975, 1980-83	3-8-83	14.72	7,500
02225330	Beaver Creek near Cobbtown, Ga.	Lat 32°16'52", long 82°11'27", Tattnall County, Hydrologic Unit 03070107, at culvert on State Highway 152, 3.2 miles west of Cobbtown.	9.58	1965-83	8-1-83	4.12	181
02225350	Pendleton Creek tributary No. 2 near Soperton, Ga.	Lat 32°25'35", long 82°29'52", Treutlen County, Hydrologic Unit 03070107, at culvert on State Highway 86, 6.5 miles northeast of Soperton.	1.68	1965-83	2-14-83	2.27	108
02225850	Beards Creek near Glennville, Ga.	Lat 31°55'26", long 81°52'58", Tattnall-Long County line, Hydrologic Unit 03070106, at State Highway 144, 3 miles east of Glennville.	74.4	1966-83	4-24-83	5.46	876
02226030	Doctors Creek near Ludowici, Ga.	Lat 31°44'07", long 81°42'08", Long County, Hydrologic Unit 03070106, at State Highway 38, 3 miles northeast of Ludowici.	a33	1966-83	3-8-83	7.22	518
Satilla River Basin							
02226190	Little Creek (formerly published as 02226150, Satilla River tributary) near Willacoochee, Ga.	Lat 31°27'24", long 83°03'02", Coffee County, Hydrologic Unit 03070201, at culvert on State Highway 149, 8.5 miles north of Willacoochee.	6.38	1965-83	9-8-74 1-25-78 8-11-81 4-25-82 3-13-83	3.20 3.00 2.52 3.33 3.67	c160 c130 c68 c180 242
02226465	Dryden Creek near Dixie Union, Ga.	Lat 31°20'23", long 82°28'43", Ware County, Hydrologic Unit 0307201, at culvert on county road, 0.7 mile west of Dixie Union.	14.7	1978-83	3-12-78 9-4-79 3-13-80 2-17-81 7-24-82 4-24-83	5.70 5.57 6.85 4.45 5.82 5.99	c365 c332 c705 c115 c396 447
02226580	Big Creek near Hoboken, Ga.	Lat 31°10'28", long 82°11'17", Brantley County, Hydrologic Unit 03070201, at State Highway 50, 2.5 miles west of Hoboken.	60	1966-83	3-5-66 8-24-69 4-4-73 c11-29-76 2-16-83	10.49 10.79 11.44 11.23 8.74	c1,650 c1,820 c2,210 c2,090 840
02227000	Hurricane Creek near Alma, Ga.	Lat 31°34'00", long 82°27'50", Bacon County, Hydrologic Unit 03070201, at bridge on U.S. Highway 1, 1.5 miles north of Alma.	139	1952-71†, 1972-83	2-17-83	7.62	2,290
02227290	Alabama River near Blackshear, Ga.	Lat 31°33'44", long 82°28'03", Pierce County, Hydrologic Unit 03070201, at bridge on State Highways 15 and 121, 3 miles north of Blackshear.	414	1970-83	3-12-83	13.34	4,790
02227422	Crooked Creek tributary near Bristol, Ga.	Lat 31°26'24", long 82°15'03", Pierce County, Hydrologic Unit 03070202, on county road, 2 miles west of Bristol.	.42	1976-83	1-7-77 3-19-78 3-13-80 4-1-81 7-15-82 3-6-83	1.58 1.40 1.69 .62 2.13 1.48	c25 c20 c29 c3 c45 22
02227990	Satilla River tributary No. 2 at Atkinson, Ga.	Lat 31°13'32", long 81°51'10", Brantley County, Hydrologic Unit 03070201, on State Highway 110, 0.3 mile north of Atkinson.	.38	1977-83	11-28-76 8-2-78 9-25-79 3-13-80 8-1-81 4-25-82 7-23-83	1.97 2.63 2.50 1.24 1.54 1.85 2.36	c46 c93 c82 c16 c26 c40 70

† Operated as a continuous-record gaging station.

a Approximately.

c Revised.

Crest-stage partial-record stations--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
Satilla River Basin--Continued							
02228050	Buffalo Creek at Hickox, Ga.	Lat 31°09'22", long 81°59'29", Brantley County, Hydrologic Unit 03070201, at State Highway 23 at Hickox.	a59	1966-83	5-24-66	9.85	3,350
					1-5-67	7.24	1,090
					9-22-69	8.26	1,830
					11-2-69	10.25	3,800
					8-19-71	7.03	958
					4-4-73	9.63	3,130
					9-7-74	6.88	868
					4-11-75	6.96	916
					11-29-76	10.69	4,330
					9-26-79	9.06	2,560
					3-14-80	6.69	765
					2-18-81	6.14	536
					4-27-82	7.17	1,040
					2-16-83	6.74	790
02228055	Satilla River tributary No. 3 near Winokur, Ga.	Lat 30°59'59", long 81°57'30", Charlton County, Hydrologic Unit 03070201, at county road, 5.3 miles southeast of Winokur.	1.91	1980-83	3-13-80	6.71	61
					2-12-81	6.24	39
					4-25-82	7.08	86
					3-9-83	7.50	140
Suwannee River basin							
02314700	Suwannoochee Creek near Thelma, Ga.	Lat 30°49'18", long 82°50'28", Clinch-Echols County line, Hydrologic Unit 03110201, at State Highway 187, 1.2 miles west of Thelma.	232	1929, 1963-83	2-16-83	6.91	1,050
02316390	Alapaha River at Lakeland, Ga.	Lat 31°02'46", long 83°02'37", Lanier County, Hydrologic Unit 03110202, at bridge on U.S. Highways 129 and 221 at Lakeland.	1,080	1970-83	3-17-83	18.44	7,080
02317710	Withlacoochee River tributary near Nashville, Ga.	Lat 31°11'54", long 83°17'17", Berrien County, Hydrologic Unit 03110202, at culvert on State Highway 76, 2.2 miles southwest of Nashville.	.86	1960-83	3-6-83	4.27	138
02317734	New River near Nashville, Ga.	Lat 31°10'37", long 83°19'20", Berrien-Cook County line, Hydrologic Unit 03110203, at bridge on State Highway 76, 5 miles west of Nashville.	146	1970-83	3-15-83	10.67	2,930
02317775	Daniels Creek near Ashburn, Ga.	Lat 31°40'40", long 83°45'06", Turner County, Hydrologic Unit 03110204, at culvert on State Highway 32, 6.2 miles west of Ashburn.	1.11	1965-83	3-6-83	3.60	231
02317780	Lime Sink Creek near Sycamore, Ga.	Lat 31°36'20", long 83°40'31", Turner County, Hydrologic Unit 03110204, at culvert on secondary road 1181, 4.5 miles southwest of Sycamore.	.68	1965-83	3-6-83	5.97	244
02317810	Little River tributary No. 2 near Tifton, Ga.	Lat 31°25'30", long 83°34'23", Tift County, Hydrologic Unit 03110304, at culvert on secondary road 546, 4 miles southwest of Tifton.	.47	1965-83	3-6-83	2.22	55
02317870	Warrior Creek near Sumner, Ga.	Lat 31°21'45", long 83°46'11", Worth County, Hydrologic Unit 03110204, at county road, 10.8 miles south of Sumner.	a109	1966-83	2-15-83	12.97	2,320
02318600	Okapilco Creek near Berlin, Ga.	Lat 31°02'48", long 83°37'02", Colquitt County, Hydrologic Unit 03110203, on county road, 1 mile south of Berlin.	101	1963-83	3-7-83	11.20	3,120
02318725	Okapilco Creek at Quitman, Ga.	Lat 30°47'09", long 83°31'34", Brooks County, Hydrologic Unit 03110203, at U.S. Highway 84 at Quitman.	278	1970-73, 1978-83	3-9-83	13.62	5,240

† Discharge not determined.

a Approximately.

Crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft ³ /s)
Aucilla River Basin							
02326200	Aucilla River near Boston, Ga.	Lat 30°46'44", long 83°48'12", Thomas County, Hydrologic Unit 03110103, at bridge on State Highway 133, 1.2 miles south of Boston.	a81	1962-83	3-8-83	7.56	2,500
Ochlockonee River Basin							
02327350	Ochlockonee River tributary near Coolidge, Ga.	Lat 31°01'33", long 83°57'32", Thomas County, Hydrologic Unit 03120002, at culvert on State Highway 202, 5.5 miles west of Coolidge.	1.81	1965-83	3-6-83	2.50	215
02327355	Ochlockonee River near Coolidge, Ga.	Lat 31°00'08", long 83°56'21", Thomas County, Hydrologic Unit 03120002, at State Highway 188, 4 miles west of Coolidge.	260	1981-83	4-28-82 2-15-83	12.32 13.73	c2,080 4,090
02327415	Little Ochlockonee River near Moultrie, Ga.	Lat 31°07'02", long 83°58'42", Colquitt County, Hydrologic Unit 03120002, at State Highway 111, 10 miles west of Moultrie.	44.8	1981-83	4-26-82 2-14-83	7.29 7.78	cl,110 1,560
02327550	Barnetts Creek near Meigs, Ga.	Lat 31°01'32", long 84°08'14", Grady County, Hydrologic Unit 03120002, at State Highway 111, 4.2 miles south-west of Meigs.	15.0	1965-75, 1978-83	2-14-83	5.36	1,130
02327810	Ochlockonee River near Cairo, Ga.	Lat 30°47'30", long 84°09'16", Grady County, Hydrologic Unit 03120002, at bridge on State Highway 93, 5 miles south of Cairo.	747	1970-83	2-19-83	22.52	7,830
02327860	Popple Branch near Whigham, Ga.	Lat 30°55'36", long 84°15'18", Grady County, Hydrologic Unit 03120002, at culvert on State Highway 179, 3.2 miles north of Whigham.	1.71	1977-83	6-25-83	3.22	180
Apalachicola River Basin							
02336080	North Fork Peachtree Creek near Chamblee, Ga.	Lat 33°51'43", long 84°17'13", DeKalb County, Hydrologic Unit 03130001, at culvert on Shallowford Road near Chamblee.	19.1	1974-83	4-8-83	12.21	2,400
02336090	North Fork Peachtree Creek tributary near Chamblee, Ga.	Lat 33°50'53", long 84°17'57", DeKalb County, Hydrologic Unit 03130001, at culvert on Meadowcliff Drive near Chamblee.	.32	1974-83	4-8-83	5.41	110
02336102	North Fork Peachtree Creek tributary near Atlanta, Ga.	Lat 33°50'20", long 84°19'19", DeKalb County, Hydrologic Unit 03130001, at culvert on Drew Valley Road near Atlanta.	2.19	1973-78, 1980-83	3-5-83	7.25	955
02336238	South Fork Peachtree Creek tributary near Atlanta, Ga.	Lat 33°47'11", long 84°20'29", DeKalb County, Hydrologic Unit 03130001, at culvert on East Rock Springs Road near Atlanta.	.90	1974-83	3-5-83	5.66	829
02336700	South Utoy Creek tributary at East Point, Ga.	Lat 33°41'25", long 84°28'05", Fulton County, Hydrologic Unit 03130002, at culvert on Headland Drive at East Point.	.79	1964-69†, 1970-78, 1980-83	3-5-83	4.49	294
02337448	Hurricane Creek tributary near Fairplay, Ga.	Lat 33°35'03", long 84°50'54", Douglas County, Hydrologic Unit 03130002, at culvert on State Highway 5, 8 miles east of Fairplay.	.33	1977-83	4-8-83	4.99	55
02341542	Flat Rock Creek at Columbus, Ga.	Lat 32°32'57", long 84°53'07", Muscogee County, Hydrologic Unit 03130003, at bridge on Warm Springs Road at Columbus.	6.54	1977-83	3-5-83	6.29	1,020

† Operated as a continuous-record gaging station.

c Revised.

Crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum	
						Gage height (feet)	Dis-charge (ft ³ /s)
Apalachicola River Basin--Continued							
02341544	Mill Branch at Columbus, Ga.	Lat 32°28'19", long 84°53'58", Muscogee County, Hydrologic Unit 03130003, at culvert on Chalbena Road at Columbus.	1.58	1977-83	3-5-83	5.26	559
02341546	Bull Creek tributary at Columbus, Ga.	Lat 32°28'38", long 84°55'36", Muscogee County, Hydrologic Unit 03130003, at culvert on Woodland Drive at Columbus.	0.26	1977-83	3-5-83	3.95	67
02341548	Lindsey Creek tributary at Columbus, Ga.	Lat 32°31'33", long 84°56'21", Muscogee County, Hydrologic Unit 03130003, at culvert on Canberra Avenue at Columbus.	1.42	1977-83	7-15-83	4.89	445
02341600	Juniper Creek near Geneva, Ga.	Lat 32°31'41", long 84°34'14", Talbot-Marion County line, Hydrologic Unit 03130003, at State Highway 41, 1.8 miles south of Geneva.	47.4	1963-83	3-7-83	6.41	484
02341723	Pine Knot Creek near Juniper, Ga.	Lat 32°26'14", long 84°39'25", Marion County, Hydrologic Unit 03130003, at State Highway 355, 8 miles south of Juniper.	31.3	1979-83	3-6-83	5.89	(1)
02341900	Ochillee Creek near Cusseta, Ga.	Lat 32°21'53", long 84°49'02", Chatahoochee County, Hydrologic Unit 03130003, at Hourglass Road, 5 miles northwest of Cusseta.	53.3	1979-83	2-25-79 3-15-80 4-1-81 2-3-82 3-6-83	11.29 11.63 11.88 8.33 10.31	1,590 1,890 2,180 796 1,200
02343219	Bluff Springs Branch near Lumpkin, Ga.	Lat 32°01'53", long 84°53'18", Stewart County, Hydrologic Unit 03130003, at culvert on State Highway 27, 5.8 miles southwest of Lumpkin.	2.98	1977-83	3-6-83	2.82	241
02343267	Temple Creek near Blakely, Ga.	Lat 31°26'34", long 84°59'00", Early County, Hydrologic Unit 03130004, at culvert on State Highway 39, 5.2 miles north of Blakely.	2.78	1978-83	3-6-83	2.05	75
02346193	Scott Creek near Talbotton, Ga.	Lat 32°39'48", long 84°36'06", Talbot County, Hydrologic Unit 03130005, at culvert on county road, 3.7 miles west of Talbotton.	3.36	1969-83	12-6-82	5.67	488
02346210	Kimbrough Creek near Talbotton, Ga.	Lat 32°41'19", long 84°30'48", Talbot County, Hydrologic Unit 03130005, at culvert on State Highway 22, 1.8 miles southeast of Talbotton.	6.62	1969-83	12-6-82	3.67	740
02346217	Coleoatchee Creek near Manchester, Ga. (formerly published as Celeoth Creek near Manchester, Ga.)	Lat 32°49'20", long 84°36'16", Talbot County, Hydrologic Unit 03130005, at culvert on county road, 2.2 miles south of Manchester.	2.82	1969-83	4-8-83	3.50	640
02348300	Patsiliga Creek near Reynolds, Ga.	Lat 32°34'20", long 84°05'27", Taylor County, Hydrologic Unit 03130005, at State Highway 128, 1 mile north of Reynolds.	139	1963-83	3-8-83	6.93	984
02348485	Whitewater Creek near Butler, Ga.	Lat 32°30'14", long 84°20'03", Taylor County, Hydrologic Unit 03130005, at State Highway 137, 6.5 miles southwest of Butler.	17.3	1981-83	3-6-83	7.46	(1)
02349030	Cedar Creek near Rupert, Ga.	Lat 32°23'21", long 84°17'49", Taylor County, Hydrologic Unit 03130005, at U.S. Highway 19, 3 miles south of Rupert.	41.1	1980-83	3-6-83	4.27	(1)
02349330	Buck Creek tributary near Tazewell, Ga.	Lat 32°20'50", long 84°22'26", Schley County, Hydrologic Unit 03130006, at culvert on State Highway 240, 4.3 miles east of Tazewell.	a0.40	1977-83	3-6-83	3.90	84

† Discharge not determined.
a Approximately.

Crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Annual maximum	
						Gage height (feet)	Dis- charge (ft ³ /s)
Apalachicola River Basin--Continued							
02349350	Buck Creek near Ellaville, Ga.	Lat 32°18'35", long 84°17'36", Schley County, Hydrologic Unit 03130006, at U.S. Highway 19, 5 miles north of Ellaville.	146	1979-83	3-6-83	8.52	2,050
02349695	Horsehead Creek near Montezuma, Ga.	Lat 32°21'28", long 83°56'11", Macon County, Hydrologic Unit 03130006, at culvert on State Highway 224, 8.7 miles northeast of Montezuma.	.72	1977-83	3-6-83	3.86	82
02350685	Choctahatchee Creek tributary near Plains, Ga.	Lat 32°02'02", long 84°25'59", Sumter County, Hydrologic Unit 03130007, at culvert on U.S. Highway 280, 2.4 miles west of Plains.	.32	1977-83	3-6-83	2.69	82
02351500	Muckalee Creek near Americus, Ga.	Lat 32°04'59", long 84°15'29", Sumter County, Hydrologic Unit 03130007, at State Highway 30, 1 mile west of Americus.	140	1963-83	3-6-83	9.41	3,390
02353100	Ichawaynochaway Creek near Dawson, Ga.	Lat 31°46'18", long 84°33'45", Terrell County, Hydrologic Unit 03130009, at State Highway 50, 7 miles west of Dawson.	118	1963-83	3-6-83	9.41	2,960
02354500	Chickasawhatchee Creek at Elmodel, Ga.	Lat 31°21'09", long 84°29'10", Baker County, Hydrologic Unit 03130009, at bridge on State Highway 37 at Elmodel, and 2 miles upstream from mouth.	a320	1940-49†, 1952-65, 1970-83	2-15-83	10.08	2,750
02356640	Spring Creek at Colquitt, Ga.	Lat 31°10'14", long 84°44'34", Miller County, Hydrologic Unit 03130010, at U.S. Highway 27 at Colquitt.	281	1981-83	2-16-83	9.55	4,120
Mobile River Basin							
02381300	Fir Creek near Ellijay, Ga.	Lat 34°41'06", long 84°37'23", Gilmer County, Hydrologic Unit 03150102, at culvert on State Highway 282, 8 miles west of Ellijay.	1.35	1966-83	11-30-82	2.44	84
02384600	Mill Creek tributary near Eton, Ga.	Lat 34°49'38", long 84°48'58", Murray County, Hydrologic Unit 03150101, at culvert on State Highway 286, 3 miles west of Eton.	4.28	1965-83	11-30-82	5.55	392
02386170	Conasauga River below Dalton, Ga.	Lat 34°42'24", long 84°53'47", Whitfield County, Hydrologic Unit 03250101, 5 miles southwest of Dalton.	624	1980-83	12-3-82	659.72	(†)
02387300	Dead Mans Branch near Resaca, Ga.	Lat 34°35'44", long 84°52'11", Gordon County, Hydrologic Unit 03150101, at culvert on State Highway 225, 4.2 miles east of Resaca.	.17	1965-83	4-6-83	3.90	80
02388200	Storey Mill Creek (prior to 1974, published as Moss Creek tributary) near Summerville, Ga.	Lat 34°25'39", long 85°16'03", Chattooga County, Hydrologic Unit 03150103, at culvert on county road 6 miles south- east of Summerville.	6.02	1966-83	11-28-82	5.99	648
02395990	Etowah River tributary near Rome, Ga.	Lat 34°16'02", long 85°08'18", Floyd County, Hydrologic Unit 03150104, at culvert on Atteiram Road near Rome.	.37	1979-83	11-28-82	5.00	104
02396290	Silver Creek tributary No. 1 near Rome, Ga.	Lat 34°10'24", long 85°09'21", Floyd County, Hydrologic Unit 03150104, at culvert on Silver Creek Road, near Rome.	.67	1979-83	3-3-79 3-20-80 9-1-81 4-25-82 2-1-83	6.94 5.24 4.34 3.80 2.51	314 199 145 113 44

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

a Approximately.

Crest-stage partial-record stations--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
Mobile River Basin--Continued							
02396510	Silver Creek tributary No. 2 at Lindale Road, near Rome, Ga.	Lat 34°12'56", long 85°10'09", Floyd County, Hydrologic Unit 03150104, at culvert on Lindale Road, near Rome.	0.36	1979-83	9-28-79	3.39	35
					3-20-80	2.40	12
					8-30-81	2.56	15
					7-15-82	2.55	14
					5-19-83	2.74	19
02396515	Silver Creek tributary No. 2 at U.S. Highways 27 and 411, near Rome, Ga.	Lat 34°13'08", long 85°10'27", Floyd County, Hydrologic Unit 03150104, at culvert on U.S. Highways 27 and 411, at junction with Old Lindale Road near Rome.	.54	1979-83	6-19-83	3.38	32
02396550	Silver Creek tributary No. 3 at Rome, Ga.	Lat 34°13'26", long 85°09'14", Floyd County, Hydrologic Unit 03150104, at culvert on U.S. Highway 27, 0.4 mile north of U.S. Highway 411 interchange at Rome.	.26	1979-83	4-8-83	4.79	144
02396680	Horseleg Creek at Rome, Ga.	Lat 34°16'03", long 85°13'29", Floyd County, Hydrologic Unit 03150103, at culvert on Castlewood Drive at Rome.	1.31	1979-83	8-31-83	5.08	310
02397830	Harrisburg Creek near Hawkins, Ga.	Lat 34°36'02", long 85°23'21", Walker County, Hydrologic Unit 03150105, at bridge on county road, 0.7 mile west of Hawkins.	13.3	1980-82† 1983	11-30-82	10.74	(†)
02411735	McClendon Creek tributary near Dallas, Ga.	Lat 33°50'59", long 84°57'20", Paulding County, Hydrologic Unit 03150108, at culvert on State Highway 120, 9.3 miles southwest of Dallas.	.88	1978-83	2-2-83	3.85	260
02411902	Mann Creek tributary near Tallapoosa, Ga.	Lat 33°51'16", long 85°17'28", Haralson County, Hydrologic Unit 03150108, at culvert on State Highway 100, 7 miles north of Tallapoosa.	.12	1978-83	4-8-83	3.25	41

† Discharge not determined.

‡ Operated as a continuous-record gaging station.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES--Continued

Peak discharge at miscellaneous sites

The following table contains peak discharges at sites not included in the continuous gaging or crest-stage partial-record program. These discharges are generally obtained for discontinued gaging stations, discontinued crest-stage partial-record stations, or other miscellaneous sites to give better areal coverage of flood events.

Station No.	Station name	Location	Drainage area (mi ²)	Period of record	Date	Gage height (feet)	Dis-charge (ft ³ /s)
Altamaha River Basin							
02205000	Wildcat Creek near Lawrenceville, Ga.	Lat 34°00'08", long 84°00'18", Gwinnett County, Hydrologic Unit 03070103, on left bank 75 ft upstream from county highway bridge, 3.2 miles north of Lawrenceville.	1.59	1954-82†, 1983	4-8-83	5.30	m164
Suwannee River Basin							
02317980	Little River near Sparks, Ga.	Lat 31°11'34", long 83°31'22", Cook-Colquitt County line, Hydrologic Unit 03110204, at bridge on county highway, 5.5 miles west of Sparks.	555	1928, 1948, 1961-79††	2-27-79	12.98	m10,900
Apalachicola River Basin							
02331000	Chattahoochee River near Leaf, Ga.	Lat 34°34'37", long 83°38'09", Habersham County, Hydrologic Unit 03130001, at State Highway 115, 1.5 miles east of Leaf.	150	1940-71†, 1972-83	2-2-83	8.94	m6,920
Mobile River Basin							
02379500	Cartecay River near Ellijay, Ga.	Lat 34°40'53", long 84°27'20", Gilmer County, Hydrologic Unit 03150102, on right bank adjacent to State Highway 52, 2 miles southeast of Ellijay.	134	1938-77†, 1978-83	2-2-83	5.20	m2,770

† Operated as a continuous-record gaging station.

†† Operated as a crest-stage partial-record station.

m Annual maximum.

GROUND-WATER LEVELS

333

CHARLTON COUNTY

304943082213701 Local number, 27E2.

LOCATION.--Lat 30°49'43", long 82°21'37", Hydrologic Unit 03110201, end of Georgia Highway 177 east of Stephen C. Foster State Park.

Owner: U. S. Geological Survey, Test well OK 8.

AQUIFER.--Floridan aquifer system.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 647 ft, cased to 465 ft, open hole.

DATUM.--Altitude of land-surface is 116 ft, National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 4.2 ft above land-surface datum.

REMARKS.--Well pumped Aug. 1, 1978, sounded to obstruction at 484 ft. Well open below obstruction. Water levels for periods of missing recorder record, December 13-29, August 10 to September 15, and September 20-30, were estimated.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 58.65 ft below land-surface datum, June 27, 1966; lowest, 71.17 ft below land surface datum, July 27, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67.18	67.26	67.44	67.03	66.08	64.62	63.37	62.67	63.45	64.35	65.58	65.83
2	67.13	67.20	67.47	66.90	66.04	64.71	63.26	62.63	63.62	64.88	65.62	65.84
3	67.12	67.14	67.44	66.84	66.04	64.77	63.22	62.53	63.70	64.92	65.58	65.92
4	67.13	67.16	67.39	66.90	66.04	64.76	63.30	62.44	63.72	64.91	65.65	65.89
5	67.16	67.30	67.30	66.92	66.04	64.65	63.30	62.52	63.77	64.84	65.72	66.00
6	67.17	67.39	67.34	66.86	65.84	64.59	63.26	62.63	63.62	64.83	65.67	66.03
7	67.18	67.41	67.46	66.80	65.72	64.48	63.24	62.69	63.82	64.83	65.56	66.06
8	67.14	67.40	67.54	66.73	65.77	64.37	63.15	62.62	63.84	64.90	65.51	66.06
9	67.10	67.41	67.51	66.64	65.78	64.34	63.05	62.63	63.95	64.89	65.53	66.11
10	67.03	67.44	67.44	66.58	65.56	64.32	62.95	62.74	64.09	64.85	65.58	66.12
11	67.06	67.43	67.27	66.56	65.54	64.34	62.98	62.80	64.16	64.88	65.58	66.10
12	67.11	67.36	67.06	66.60	65.70	64.34	63.02	62.80	64.16	64.91	65.55	66.09
13	67.03	67.41	67.30	66.67	65.50	64.32	63.04	62.80	64.16	64.94	65.55	66.09
14	67.06	67.45	67.35	66.63	65.30	64.30	63.00	62.83	64.18	64.95	65.56	66.07
15	67.08	67.45	67.31	66.54	65.38	64.19	62.92	62.83	64.17	64.93	65.56	66.18
16	67.12	67.48	67.29	66.47	65.32	64.00	62.87	62.80	64.22	64.93	65.66	66.18
17	67.22	67.40	67.29	66.44	65.21	63.77	62.85	62.90	64.30	64.99	65.66	66.24
18	67.30	67.38	67.29	66.45	65.26	63.76	62.73	63.04	64.34	65.06	65.65	66.28
19	67.30	67.41	67.15	66.46	65.30	63.90	62.66	63.09	64.30	65.09	65.65	66.29
20	67.26	67.42	67.10	66.42	65.33	63.84	62.71	63.10	64.43	65.18	65.66	66.18
21	67.21	67.42	67.18	66.30	65.32	63.84	62.76	63.10	64.49	65.27	65.66	66.27
22	67.20	67.38	67.26	66.25	65.13	64.00	62.74	63.08	64.54	65.25	65.70	66.33
23	67.20	67.34	67.29	66.25	64.94	63.96	62.50	63.03	64.60	65.26	65.78	66.36
24	67.20	67.42	67.24	66.31	64.88	63.71	62.62	63.08	64.60	65.26	65.86	66.34
25	67.22	67.56	67.29	66.35	64.91	63.84	62.51	63.12	64.60	65.33	65.88	66.34
26	67.30	67.58	67.30	66.32	65.03	63.90	62.64	63.15	64.67	65.36	65.89	66.29
27	67.34	67.52	67.26	66.20	65.00	63.73	62.70	63.23	64.76	65.38	65.87	66.24
28	67.32	67.52	67.15	66.18	64.74	63.66	62.69	63.34	64.77	65.47	65.83	66.22
29	67.29	67.36	67.08	66.22	---	63.71	62.70	63.34	64.76	65.53	65.80	66.20
30	67.32	67.42	67.06	66.17	---	63.61	62.68	63.32	64.81	65.55	65.81	66.22
31	67.34	---	67.06	66.14	---	63.46	---	63.33	---	65.57	65.83	---
MEAN	67.19	67.39	67.29	66.52	65.45	64.12	62.92	62.91	64.23	65.09	65.68	66.15
MAX	67.34	67.58	67.54	67.03	66.08	64.77	63.37	63.34	64.81	65.57	65.89	66.36
MIN	67.06	67.14	67.06	66.14	64.74	63.46	62.50	62.44	63.45	64.83	65.51	65.83

WTR YR 1983 MEAN 65.41 LOW 67.58 HIGH 62.44

CHATHAM COUNTY

315950081161201 Local number, 35P94.

LOCATION.--Lat 31°59'50", long 81°16'12", Hydrologic Unit 03060204, Barbour Lathrop Plant Introduction Station, 10 miles south of Savannah, north of the intersection of U.S. Highway 17 and Argyle Rd.

Owner: University of Georgia, formerly U.S. Department of Agriculture.

AQUIFER.--Sands of Holocene and Pleistocene ages.

WELL CHARACTERISTICS.--Bored observation well, diameter 30 in., depth 15 ft, cased to 15 ft, open end.

DATUM.--Altitude of land-surface is 18.67 ft, National Geodetic Vertical Datum of 1929.

Measuring point: Iron bracket on recorder shelter, 3.3 ft above land-surface datum.

REMARKS.--Responds quickly to precipitation. Water levels for periods of missing recorder record, February 7-21, February 25 to March 22, March 23-28, April 1-3, June 1-2, July 4-5, August 7-27, and September 30, were estimated.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.05 ft below land-surface datum, Sept. 26, 1953; lowest, 12.28 ft below land-surface datum, November 30, 1972.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.60	7.20	8.54	8.36	4.02	2.43	2.27	2.67	5.34	6.59	6.98	9.03
2	5.67	7.25	8.58	8.06	3.56	2.36	2.42	2.78	5.47	6.24	7.05	9.08
3	5.76	7.30	8.59	7.80	3.68	2.29	2.57	2.90	5.56	6.13	7.06	9.12
4	5.84	7.33	8.59	7.50	3.73	2.22	2.72	2.86	5.67	6.21	7.08	9.15
5	5.93	7.40	8.62	7.28	3.79	2.15	2.78	2.96	5.90	6.30	7.15	9.19
6	5.98	7.45	8.67	7.12	3.60	2.17	2.86	3.10	5.91	6.38	7.24	9.61
7	6.04	7.50	8.73	7.05	3.79	2.07	2.92	3.21	6.00	6.53	7.33	8.33
8	6.12	7.53	8.75	7.02	3.74	2.03	2.96	3.31	6.08	6.67	7.41	8.26
9	6.20	7.61	8.75	6.80	3.68	1.99	2.26	3.41	6.17	6.81	7.50	8.30
10	6.25	7.69	8.74	6.30	3.62	1.95	1.86	3.50	6.27	6.94	7.59	8.35
11	6.13	7.74	8.70	5.82	3.56	1.93	2.10	3.59	6.26	7.14	7.68	8.41
12	6.04	7.76	8.67	5.62	3.51	1.91	2.35	3.69	6.45	7.32	7.76	8.48
13	5.98	7.83	8.65	5.56	3.45	1.89	2.53	3.78	6.56	7.46	7.85	8.54
14	6.02	7.88	8.64	5.54	3.39	1.87	2.66	3.87	6.67	7.60	7.94	8.62
15	6.10	7.93	8.64	5.55	3.33	1.85	2.23	3.96	6.78	7.71	8.02	8.69
16	6.21	7.98	8.59	5.62	3.27	1.87	2.02	4.05	6.92	7.81	8.11	8.77
17	6.33	8.02	8.60	5.68	3.21	1.89	2.32	4.15	7.05	7.91	8.20	8.85
18	6.40	8.07	8.64	5.79	3.15	1.91	2.48	4.24	7.17	8.01	8.28	8.92
19	6.46	8.12	8.58	5.87	3.10	1.93	2.58	4.30	7.30	8.12	8.37	9.00
20	6.55	8.16	8.57	5.88	3.04	1.95	2.73	4.30	7.42	8.23	8.46	9.08
21	6.62	8.20	8.62	5.56	2.98	1.98	2.86	4.35	7.51	8.32	8.55	9.15
22	6.70	8.22	8.68	4.85	2.92	2.00	2.95	4.41	7.51	8.40	8.63	9.20
23	6.75	8.26	8.70	4.60	2.74	2.04	1.75	4.50	7.49	8.18	8.72	9.24
24	6.78	8.32	8.70	4.47	2.75	2.07	.74	4.59	7.51	8.06	8.81	9.29
25	6.83	8.39	8.73	4.45	2.71	2.11	1.28	4.67	7.58	8.08	8.90	9.34
26	6.89	8.41	8.74	4.47	2.64	2.15	1.69	4.76	7.66	7.34	8.98	9.38
27	6.95	8.42	8.75	4.46	2.57	2.18	2.00	4.85	7.76	6.99	9.07	9.41
28	6.99	8.40	8.73	4.35	2.50	2.22	2.22	4.94	7.80	6.91	9.07	9.44
29	7.05	8.45	8.74	4.24	---	2.26	2.40	5.02	7.84	6.91	8.89	9.48
30	7.15	8.50	8.74	4.14	---	2.35	2.54	5.12	7.36	6.93	8.90	9.56
31	7.18	---	8.60	4.04	---	2.12	---	5.22	---	6.94	8.95	---
MEAN	6.37	7.91	8.66	5.80	3.30	2.07	2.34	3.97	6.77	7.26	8.08	8.98
MAX	7.18	8.50	8.75	8.36	4.02	2.43	2.96	5.22	7.84	8.40	9.07	9.61
MIN	5.60	7.20	8.54	4.04	2.50	1.85	.74	2.67	5.34	6.13	6.98	8.26

WTR YR 1983 MEAN 5.98 LOW 9.61 HIGH .74

320021081124801 Local number, 36Q020.

Owner: H. J. Morrison.

AQUIFER.--Floridan aquifer system.

WELL CHARACTERISTICS.--Drilled unused domestic well, diameter 3 in., depth 365 ft, cased to 330 ft, open hole.

DATUM.--Altitude of land-surface is 13 ft, National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 3.88 ft above land-surface datum.

REMARKS.--Water levels for period of missing recorder record, June 7 to July 5, were estimated.

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

EXTREMES FOR PERIOD OF RECORD.--highest water level, 17.66 ft below land-surface datum, June 28, 1958; lowest, 49.15 ft below land-surface datum, September 6, 7, 1980.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44.50	44.10	43.85	41.43	40.45	39.70	40.95	41.50	42.50	44.82	44.79	45.70
2	44.45	43.95	43.85	41.17	40.30	39.85	40.40	41.55	42.83	44.77	44.73	45.66
3	44.30	43.35	43.30	41.13	40.45	40.00	40.50	41.50	42.98	44.90	44.65	45.82
4	44.40	43.75	43.75	41.17	40.75	40.00	40.70	41.40	43.20	44.99	44.58	45.91
5	44.45	43.95	43.65	41.05	40.75	40.00	40.75	41.40	43.43	44.95	44.62	45.95
6	44.45	44.00	43.80	41.00	40.50	39.95	40.80	41.40	43.60	44.90	44.61	45.96
7	44.40	43.95	43.90	40.94	40.55	39.95	40.80	41.40	43.63	44.88	44.61	45.97
8	44.35	43.90	43.95	40.90	40.65	39.85	40.75	41.25	43.66	44.76	44.61	45.99
9	44.30	43.90	43.85	40.80	40.60	39.90	40.80	41.20	43.69	44.60	44.61	46.04
10	44.35	43.95	43.75	40.80	40.35	39.95	40.95	41.13	43.73	44.53	44.67	46.14
11	44.40	43.90	43.55	40.70	40.30	40.00	40.85	41.10	43.88	44.54	44.69	46.19
12	44.35	43.85	43.45	40.85	40.40	40.00	40.85	41.05	44.00	44.51	44.73	46.20
13	44.25	43.95	43.70	40.85	40.10	40.00	40.90	41.05	44.05	44.42	44.73	46.18
14	44.20	43.90	43.65	40.85	39.90	40.00	40.85	41.15	44.06	44.36	44.74	46.19
15	44.25	43.95	43.40	40.65	40.05	39.90	40.90	41.20	44.11	44.31	44.75	46.22
16	44.35	43.95	43.33	40.70	39.85	39.70	40.85	41.15	44.12	44.31	44.74	46.20
17	44.40	43.35	43.33	40.70	39.70	39.45	40.95	41.32	44.14	44.48	44.73	46.27
18	44.40	43.35	43.33	40.90	39.70	39.50	40.85	41.40	44.25	44.63	44.80	46.35
19	44.35	43.95	43.20	40.95	39.70	39.80	40.85	41.35	44.31	44.78	44.91	46.38
20	44.25	44.00	43.18	40.80	39.90	39.85	40.93	41.38	44.35	44.84	44.99	46.33
21	44.20	44.02	43.23	40.55	39.90	39.80	41.10	41.40	44.37	44.87	45.18	46.22
22	44.25	44.00	43.27	40.70	39.70	40.30	41.10	41.33	44.41	44.93	45.33	46.25
23	44.25	44.00	43.25	40.65	39.55	40.35	40.80	41.35	44.43	44.95	45.50	46.26
24	44.20	44.10	43.13	40.75	39.60	40.20	40.89	41.45	44.42	44.95	45.73	46.28
25	44.20	44.35	43.05	40.75	39.85	40.50	41.15	41.50	44.53	44.94	45.89	46.22
26	44.25	44.00	42.82	40.75	40.15	40.60	41.20	41.60	44.51	44.85	45.90	46.10
27	44.25	44.20	42.55	40.65	40.00	40.45	41.25	41.75	44.60	44.79	45.86	46.02
28	44.20	44.10	42.23	40.65	39.70	40.50	41.30	41.90	44.75	44.86	45.75	45.96
29	44.15	43.90	42.10	40.65	---	40.60	41.35	42.00	44.80	44.83	45.72	45.96
30	44.15	43.90	41.73	40.55	---	40.50	41.40	42.05	44.76	44.81	45.69	45.94
31	44.15	---	41.63	40.55	---	40						

GROUND-WATER LEVELS

CHATHAM COUNTY

320122080510202 Local number, 3903.

LOCATION.--Lat 32°01'22", long 80°51'02", Hydrologic Unit 03060204, Tybee Island near Fort Screven.

Owner: U.S. Geological Survey, test well 7.

AQUIFER.--Floridan aquifer system.

WELL CHARACTERISTICS.--Drilled observation well, diameter 10 in., depth 600 ft, cased to 129 ft, open hole.

DATUM.--Altitude of land-surface is 7.0 ft, National Geodetic Vertical Datum of 1929.

Measuring point: Top of 10 in. casing, 2.0 ft above land-surface datum.

REMARKS.--Borehole geophysical survey conducted January 24, 1962. Water levels for period of missing recorder record, September 20-28, were estimated.

PERIOD OF RECORD.--May 1952 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 17.8 ft below land-surface datum, April 11, 1963; lowest, 29.65 ft below land-surface datum, July 27, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

JAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.40	26.20	26.20	25.25	24.10	23.60	23.55	24.45	24.89	26.43	27.65	27.23
2	26.35	26.10	26.25	25.15	24.05	23.80	23.45	24.45	24.95	26.63	27.73	27.04
3	26.25	25.90	26.20	25.00	24.60	23.80	23.80	24.45	25.14	26.92	27.56	27.33
4	26.35	25.75	26.05	24.95	25.00	23.95	23.90	24.45	24.24	27.36	27.40	27.55
5	26.55	26.35	25.35	25.05	24.55	23.85	23.80	24.38	24.40	26.93	27.42	27.40
6	26.60	26.15	26.05	25.10	24.15	23.80	23.80	24.45	25.30	26.84	27.53	27.38
7	26.55	25.95	26.05	25.15	24.40	23.60	23.90	24.50	25.19	26.80	27.28	27.37
8	26.50	25.95	25.80	25.00	24.55	23.65	24.05	24.60	25.15	26.38	27.32	27.42
9	26.50	26.10	25.80	24.65	24.35	23.75	23.75	24.45	25.15	26.60	27.16	27.39
10	26.35	26.20	25.70	24.60	24.10	23.80	24.00	24.55	25.13	26.74	27.26	27.35
11	26.10	26.15	25.50	24.75	24.00	23.80	23.90	24.60	24.92	26.66	27.68	27.47
12	26.15	26.10	25.75	25.25	24.35	23.80	23.70	24.65	25.08	26.75	27.78	27.47
13	25.90	26.40	25.65	25.00	23.85	23.70	23.70	24.60	25.27	26.83	27.44	27.47
14	26.30	25.90	25.70	24.85	24.10	23.70	23.70	24.80	25.45	26.91	27.22	27.59
15	26.20	26.35	25.60	24.95	24.00	23.60	23.75	24.75	25.42	26.86	27.32	27.05
16	26.30	25.50	25.90	24.85	23.80	23.15	23.85	24.75	25.35	26.80	27.26	26.93
17	26.25	25.65	25.70	24.80	23.75	22.90	23.75	24.45	25.51	27.00	27.30	27.12
18	26.35	25.70	25.60	24.80	23.55	23.25	23.80	24.35	25.74	27.21	27.40	27.27
19	26.30	25.70	25.45	24.90	23.95	23.80	23.70	24.50	25.75	27.38	27.42	27.30
20	26.30	25.70	25.70	24.25	23.95	23.35	23.80	24.75	25.83	27.59	27.59	27.22
21	26.35	25.75	25.70	23.80	23.90	23.55	24.10	24.90	25.83	27.85	27.62	27.26
22	26.25	25.75	25.55	24.35	23.75	24.25	24.20	24.90	25.89	27.99	27.58	27.29
23	25.85	25.75	25.65	24.40	23.95	23.85	23.55	25.05	25.69	27.51	27.54	27.21
24	25.85	26.15	25.75	24.60	23.80	23.60	23.95	24.85	25.93	27.40	27.66	27.18
25	26.25	26.05	25.85	24.65	23.75	23.70	24.05	24.70	26.07	27.44	27.52	27.09
26	26.40	26.25	25.90	24.50	23.70	23.70	24.05	24.75	26.15	27.07	27.43	26.92
27	26.20	26.30	25.70	24.15	23.55	23.50	24.20	24.76	26.47	27.13	27.46	26.87
28	26.10	26.15	25.60	24.20	23.10	23.85	24.25	24.70	26.35	27.07	27.52	26.77
29	26.15	26.25	25.35	24.20	---	23.90	24.35	24.81	26.58	27.13	27.44	26.60
30	26.25	26.25	25.50	24.10	---	23.60	24.40	24.91	26.48	27.14	27.42	26.76
31	26.25	---	25.10	24.20	---	23.45	---	24.92	---	27.45	27.34	---
MEAN	26.26	26.02	25.74	24.69	24.03	23.67	23.89	24.65	25.51	27.06	27.46	27.21
MAX	26.60	26.40	26.25	25.25	25.00	24.25	24.40	25.05	26.58	27.99	27.78	27.59
MIN	25.85	25.65	25.10	23.80	23.10	22.90	23.45	24.35	24.24	26.38	27.16	26.60

WTR YR 1983 MEAN 25.53 LOW 27.99 HIGH 22.90

CHATHAM COUNTY

320202080541201 Local number, 38Q2.

LOCATION.--Lat 32°02'02", long 80°54'12", Hydrologic Unit 03060204, Cockspur Island, near pilot house.

Owner: U.S. Department of the Interior, National Park Service.

AQUIFER.--Floridan aquifer system.

WELL CHARACTERISTICS.--Drilled observation well, diameter 8 in., depth 348 ft, cased to 110 ft, open hole.

DATUM.--Altitude of land-surface is 8.0 ft, National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 3.62 ft above land-surface datum.

REMARKS.--Borehole geophysical survey conducted June 16, 1961. Water levels for period of missing recorder record, July 4-6, were estimated.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 16.0 ft below land-surface datum, March 5, 1956; lowest, 35.60 ft below land-surface datum, September 2-6, 1980.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31.90	31.70	31.70	30.60	29.30	28.70	28.70	29.60	30.33	32.17	32.90	32.79
2	31.80	31.60	31.70	30.50	29.20	28.90	28.65	29.60	30.45	32.27	32.90	32.69
3	31.80	31.50	31.70	30.35	29.55	29.00	29.00	29.60	30.50	32.43	32.80	32.77
4	32.00	31.40	31.60	30.40	29.90	29.00	29.00	29.70	30.62	32.34	32.70	32.86
5	32.00	31.80	31.45	30.40	29.65	28.90	28.90	29.65	30.75	32.24	32.71	32.75
6	32.00	31.70	31.60	30.50	29.30	28.90	29.00	29.80	30.76	32.14	32.62	32.77
7	31.90	31.60	31.60	30.40	29.50	28.90	29.10	29.85	30.70	32.05	32.52	32.82
8	31.90	31.55	31.50	30.30	29.60	28.80	28.90	29.75	30.67	31.92	32.50	32.86
9	31.90	31.70	31.50	29.95	29.45	28.80	28.90	29.70	30.41	32.00	32.52	32.93
10	31.80	31.70	31.40	30.00	29.30	28.85	29.10	29.70	30.53	32.05	32.60	32.94
11	31.70	31.70	31.15	30.05	29.20	28.85	29.00	29.75	30.47	32.19	32.84	33.04
12	31.65	31.60	31.20	30.40	29.50	28.90	28.90	29.75	30.60	32.23	33.01	33.12
13	31.75	31.75	31.20	30.20	29.10	28.80	28.85	29.70	30.80	32.35	32.85	33.14
14	31.80	31.50	31.30	30.10	29.20	28.80	28.90	29.85	30.97	32.45	32.65	33.17
15	31.80	31.60	31.20	30.10	29.20	28.65	28.95	29.80	30.95	32.50	32.69	32.84
16	31.80	31.45	31.30	30.05	29.05	28.30	29.00	29.90	31.05	32.48	32.58	32.73
17	31.80	31.30	31.20	30.00	28.95	28.05	28.90	29.70	31.19	32.50	32.61	32.86
18	31.90	31.35	31.10	30.00	29.10	28.35	28.95	29.70	31.32	32.62	32.62	32.97
19	31.90	31.35	31.00	30.20	29.10	28.80	28.90	29.80	30.45	32.80	32.75	32.97
20	31.90	31.30	31.25	29.70	29.15	28.50	29.00	29.90	31.52	32.98	32.76	32.90
21	31.90	31.40	31.30	29.40	29.10	28.60	29.20	30.00	31.60	33.00	32.77	32.95
22	31.90	31.40	31.20	29.60	28.95	29.20	29.15	29.95	31.56	32.98	32.83	32.99
23	31.60	31.40	31.20	29.80	29.00	29.00	28.80	30.06	31.57	32.95	33.10	32.92
24	31.60	31.70	31.30	29.80	28.90	28.75	29.10	29.80	31.69	32.85	33.16	32.90
25	31.80	31.70	31.30	29.85	28.90	28.80	29.20	29.83	31.71	32.90	33.17	32.83
26	31.90	31.80	31.20	29.80	28.90	28.30	29.20	29.87	31.81	32.75	33.11	32.67
27	31.90	31.80	31.10	29.70	28.80	28.65	29.30	30.00	31.95	32.65	33.10	32.63
28	31.70	31.60	31.00	29.65	28.50	28.90	29.35	29.96	32.10	32.70	33.08	32.54
29	31.70	31.75	30.90	29.80	---	28.90	29.50	30.02	32.11	32.78	33.3	32.38
30	31.80	31.70	30.75	29.60	---	28.70	29.50	30.14	32.1	32.80	32.95	32.41
31	31.80	---	30.60	29.60	---	28.60	---	30.1	---	32.88	32.84	---
MEAN	31.83	31.58	31.27	30.03	29.19	28.76	29.07	29.83	31.11	32.51	32.82	32.84
MAX	32.00	31.80	31.70	30.60	29.70	29.20	29.50	30.22	32.11	33.00	33.17	33.17
MIN	31.60	31.30	30.60	29.40	28.50	28.05	28.65	29.60	30.33	31.92	32.50	32.38

WTR YR 1983 MEAN 30.91 LOW 33.17 HIGH 28.05

320530081085001 Local number. 3608.

Owner: Layne-Atlantic Co.

AQUIFER.--Floridan aquifer system.

WELL CHARACTERISTICS.--Drilled unused industrial well, diameter 4 in., depth 406 ft, cased to 250 ft, open hole.

DATUM.--Altitude of land-surface is 9.91 ft, National Geodetic Vertical Datum of 1929.

Measuring point: Top of 3 in. casing, 1.0 ft above land-surface datum.

REMARKS.--Water levels for periods of missing recorder record, November 19 to December 14, February 7-10, 16-22, August 25, and September 1-30, were estimated.

PERIOD OF RECORD.--February 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 49.17 ft below land-surface datum, July 11, 1954; lowest, 124.40 ft below land-surface datum, August 30, 1980.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103.80	103.30	107.53	88.90	96.60	95.60	102.80	101.37	105.60	109.85	101.90	112.43
2	103.75	103.20	107.02	89.10	95.25	96.06	101.64	97.64	106.50	108.55	100.10	111.84
3	103.95	103.50	106.46	90.00	96.30	96.46	101.30	95.04	106.55	105.07	99.50	111.59
4	104.40	103.80	105.39	91.60	96.12	96.66	102.30	92.20	106.75	99.70	99.68	110.98
5	104.45	104.00	106.83	92.70	95.10	96.84	103.68	91.51	105.45	96.71	99.96	112.63
6	104.60	104.20	107.77	93.30	93.70	95.06	104.20	90.50	106.14	96.28	101.34	111.08
7	104.65	102.40	108.20	93.70	93.54	94.12	104.50	89.31	107.15	94.62	102.08	111.43
8	105.05	101.90	107.14	94.70	93.88	96.05	104.24	87.89	107.05	93.24	104.30	111.66
9	105.50	104.30	106.08	93.70	92.72	96.35	103.50	88.80	107.04	91.47	106.02	112.47
10	105.25	105.50	104.01	93.90	89.56	96.87	102.20	92.66	107.27	89.39	106.30	112.86
11	104.60	106.40	102.95	94.70	88.40	97.50	102.05	95.54	107.05	88.75	106.63	112.77
12	104.70	107.20	105.39	95.50	89.60	97.70	103.80	97.30	105.70	92.00	106.15	112.48
13	104.50	107.00	104.83	95.70	90.60	97.10	104.00	96.77	105.81	96.04	105.27	112.07
14	103.90	105.10	102.26	95.60	90.67	97.96	104.40	99.74	106.95	97.55	104.62	110.46
15	104.25	106.00	101.50	95.60	91.50	98.90	104.35	99.05	107.42	99.92	106.13	110.11
16	104.70	107.70	101.50	96.00	92.16	99.16	103.90	99.20	108.77	100.05	108.06	110.32
17	104.50	108.70	101.50	96.40	92.88	96.95	102.76	101.30	109.30	99.98	108.57	110.57
18	104.25	109.40	99.90	97.00	93.74	98.43	102.70	101.60	108.85	101.42	108.40	110.70
19	104.80	109.84	97.60	97.70	94.60	98.73	104.00	101.32	107.36	103.20	108.67	110.61
20	105.20	109.97	98.20	98.30	97.20	98.95	104.10	101.63	108.21	103.42	108.92	110.70
21	105.30	109.71	97.90	98.00	97.80	100.55	104.35	101.52	102.96	105.08	107.57	109.93
22	105.60	109.65	93.20	98.10	96.40	102.00	104.60	101.02	109.47	105.91	108.37	109.96
23	103.60	110.59	88.80	98.00	95.50	103.10	102.10	101.40	109.07	104.55	110.35	110.27
24	101.20	113.02	84.80	98.10	95.55	103.20	100.76	102.36	108.87	102.38	111.33	109.96
25	101.30	112.46	80.80	98.40	95.76	102.80	102.16	103.10	107.88	103.61	111.72	109.51
26	103.60	111.40	78.20	98.40	96.00	102.40	104.65	103.50	106.88	105.57	112.10	109.38
27	103.70	110.33	77.00	98.20	95.60	101.35	104.90	103.80	107.39	106.10	112.30	110.11
28	104.70	108.27	80.70	99.10	95.25	101.30	105.40	104.10	108.90	106.25	112.50	110.48
29	104.70	108.21	85.20	98.10	---	102.65	105.70	104.15				

GROUND-WATER LEVELS

339

CLAY COUNTY

313637085032601 Local number, 5L1.

LOCATION.--Lat 31°36'37", long 85°03'26", Hydrologic Unit 03130004, between Chattahoochee River and Ft. Gaines waterplant.

Owner: U.S. Army Corps of Engineers.

AQUIFER.--Clayton Limestone.

WELL CHARACTERISTICS.--Drilled observation well, diameter 3 in., depth 120 ft, cased to 44 ft, open hole.

DATUM.--Altitude of land-surface is 146.7 ft, National Geodetic Vertical Datum of 1929.

Measuring point: Top of floor of recorder shelter, 2.7 ft above land-surface datum.

REMARKS.--Water levels for period of missing recorder record, May 18 to September 30, were estimated.

PERIOD OF RECORD.--May 23, 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 18.86 ft below land-surface datum, February 17, 1966; lowest, 35.95 ft below land-surface datum, February 14, 1961.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30.76	31.23	30.92	29.35	29.63	28.03	26.07	23.28	29.83	27.91	30.67	30.56
2	31.15	31.09	30.87	30.13	28.50	28.95	26.00	23.09	28.71	27.81	30.65	30.74
3	31.28	31.08	30.54	29.70	28.39	28.97	26.07	27.80	29.83	28.68	30.66	30.79
4	31.00	31.04	30.81	28.48	28.93	28.70	26.13	27.68	29.64	29.55	30.66	30.83
5	30.93	31.12	29.53	28.71	29.04	28.43	26.12	27.72	29.44	29.54	30.54	30.88
6	30.91	31.48	29.48	28.67	29.62	27.97	26.81	27.73	29.25	29.51	30.42	30.89
7	30.87	31.62	29.46	28.61	29.23	28.07	26.52	28.49	29.05	29.46	30.30	30.91
8	30.82	31.29	29.43	29.13	29.18	28.33	26.13	28.65	28.36	29.45	30.18	29.82
9	31.17	31.24	29.33	29.91	29.11	26.80	24.71	28.48	28.87	29.45	30.06	29.72
10	31.32	31.23	29.80	29.51	28.97	26.87	23.41	28.36	28.82	29.44	30.04	29.86
11	31.05	31.20	29.89	29.45	28.65	26.35	23.45	28.33	28.94	29.44	28.61	29.99
12	30.96	31.18	29.19	29.52	28.83	27.47	24.86	28.34	29.05	29.43	28.60	30.13
13	30.93	31.50	29.21	29.51	29.07	27.67	25.46	28.38	29.17	29.43	28.60	30.10
14	30.94	31.69	29.19	29.45	29.35	27.53	25.55	28.85	29.16	29.40	28.59	30.09
15	30.96	31.35	29.09	30.02	29.30	27.36	25.58	29.01	29.15	29.37	28.58	30.05
16	31.27	31.33	28.99	30.30	28.86	27.38	25.67	28.46	29.25	29.79	29.36	30.04
17	31.44	31.24	28.97	29.83	28.87	27.31	25.67	28.89	29.06	30.21	30.15	30.04
18	31.25	31.31	29.66	29.80	29.10	27.38	25.62	28.66	29.62	30.63	30.13	29.93
19	31.16	31.19	30.43	29.81	29.26	27.63	26.19	28.67	30.18	30.63	30.11	29.83
20	31.13	31.61	29.84	29.75	29.44	27.85	26.50	28.64	30.74	30.62	29.30	29.72
21	31.11	31.75	29.80	29.67	29.60	26.94	26.59	28.58	30.74	30.59	29.50	30.03
22	31.14	31.38	29.76	29.80	29.66	27.53	26.61	28.49	30.73	30.53	29.19	30.00
23	31.45	31.26	29.72	29.85	29.72	27.32	25.73	28.40	30.64	30.48	28.87	29.98
24	31.60	31.21	29.55	29.62	28.56	27.23	26.45	28.42	30.72	30.42	28.58	29.96
25	31.30	31.44	30.37	29.53	28.06	27.30	26.55	28.41	30.44	30.36	28.78	29.96
26	31.14	31.37	30.56	30.18	28.04	27.51	26.48	28.37	30.16	30.36	28.78	29.95
27	31.11	31.68	30.07	29.65	28.03	25.67	27.06	28.33	29.86	30.38	29.54	29.95
28	31.00	31.74	29.95	29.54	28.02	24.25	27.47	28.83	29.61	30.36	30.12	29.92
29	30.97	31.39	29.89	30.38	---	24.55	27.63	29.34	27.60	30.29	30.79	29.93
30	31.44	31.15	28.99	30.58	---	25.96	28.08	29.85	27.93	30.42	30.58	30.63
31	31.61	---	28.93	30.01	---	26.06	---	29.85	---	30.54	30.57	---
MEAN	31.13	31.35	29.76	29.63	28.99	27.29	26.05	28.53	29.50	29.82	29.74	30.17
MAX	31.61	31.75	30.92	30.58	29.82	28.97	28.08	29.85	30.74	30.63	30.79	30.91
MIN	30.76	31.04	28.93	28.48	28.02	24.25	23.41	27.68	27.60	27.81	28.58	29.72

WTR YR 1983 MEAN 29.33 LOW 31.75 HIGH 23.41

GROUND-WATER LEVELS

COOK COUNTY

310813083260301 Local number, 18H16.

LOCATION.--Lat 31°08'13", long 83°26'03", Hydrologic Unit 03110203, on West Second Street near intersection of Georgia Highways 76 and 37.

Owner: U.S. Geological Survey, Adel test well.

AQUIFER.--Floridan aquifer system.

WELL CHARACTERISTICS.--Drilled observation well, diameter 8 in., depth 865 ft, cased to 207 ft, open hole.

DATUM.--Altitude of land-surface is 241 ft, National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 2.66 ft above land-surface datum.

REMARKS.--Well pumped July 19, 1978; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted October 24, 1974. Water levels for periods of missing recorder record, October 1-17 and January 3-18, were estimated.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 163.34 ft below land-surface datum, July 5, 1966; lowest, 173.87 ft below land-surface datum, June 30, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	172.11	172.01	171.78	171.28	171.04	170.49	169.99	169.84	169.98	170.32	171.11	171.86
2	172.01	172.04	171.82	171.15	170.79	170.66	169.32	169.95	170.02	170.29	171.18	171.77
3	172.07	171.92	171.36	171.19	170.96	170.77	170.06	169.72	170.19	170.23	171.10	171.46
4	172.18	171.33	171.63	171.28	171.25	170.79	170.26	169.66	170.19	170.13	171.10	171.20
5	172.26	172.01	171.36	171.27	171.22	170.56	170.32	169.79	170.11	170.18	171.10	171.19
6	172.19	171.92	171.52	171.24	170.70	170.39	170.36	169.82	170.04	170.28	170.83	171.28
7	172.10	171.86	171.82	171.21	170.86	170.39	170.26	169.85	169.97	170.38	170.67	171.41
8	172.15	171.93	171.92	170.99	171.20	170.35	170.24	169.77	169.88	170.53	170.79	171.45
9	171.99	171.99	171.39	171.09	171.16	170.47	170.02	169.73	169.60	170.59	171.08	171.47
10	171.92	172.02	171.36	171.19	170.91	170.48	170.11	169.92	170.05	170.42	171.17	171.53
11	172.03	171.98	171.38	171.23	170.96	170.53	170.18	170.01	170.15	170.71	171.17	171.59
12	172.20	171.89	171.19	171.27	171.15	170.48	170.22	169.95	170.12	170.90	171.08	171.45
13	172.14	171.85	171.72	171.41	170.84	170.27	170.20	169.96	170.03	171.09	170.98	171.40
14	172.05	171.83	171.95	171.43	170.69	170.39	170.13	169.98	170.17	171.26	170.97	171.25
15	172.08	171.88	171.59	171.29	170.95	170.40	170.04	169.86	170.26	171.27	171.09	171.29
16	171.92	171.94	171.66	171.22	170.90	170.12	169.95	169.69	170.39	171.28	171.28	171.35
17	171.95	171.89	171.63	171.25	170.77	169.87	169.73	169.86	170.55	171.38	171.29	171.36
18	172.08	171.87	171.50	171.31	170.90	170.00	169.80	169.94	170.76	171.34	171.32	171.35
19	172.15	171.88	171.30	171.51	170.85	170.20	169.98	169.96	170.63	171.46	171.39	171.29
20	172.08	171.86	171.43	171.34	170.95	170.01	170.16	169.94	170.05	171.79	171.44	171.32
21	172.06	171.81	171.52	171.22	170.95	170.07	170.12	169.98	170.75	171.79	171.39	171.28
22	172.04	171.79	171.74	171.19	170.86	170.61	169.79	169.86	170.70	171.78	171.37	171.28
23	171.97	171.68	171.50	171.08	170.65	170.48	169.55	169.72	170.60	171.80	171.69	171.35
24	171.88	171.79	171.41	171.24	170.63	170.22	169.83	169.77	170.58	171.44	171.86	171.34
25	171.95	171.84	171.43	171.39	170.67	170.49	169.94	169.84	170.46	171.05	171.91	171.28
26	172.08	171.83	171.43	171.33	170.87	170.39	170.03	169.80	170.35	171.20	171.90	171.31
27	172.10	171.64	171.43	171.19	170.69	170.05	170.05	169.96	170.41	171.28	171.90	171.30
28	172.11	171.44	171.36	171.23	170.41	170.25	170.06	170.00	170.50	171.18	171.92	171.30
29	172.19	171.47	171.25	171.23	---	170.51	170.06	169.95	170.40	171.31	171.83	171.33
30	172.17	171.66	171.30	171.01	---	170.35	169.93	169.79	170.34	171.30	171.88	171.38
31	172.09	---	171.34	171.08	---	170.22	---	169.76	---	171.22	171.93	---
MEAN	172.07	171.85	171.58	171.24	170.88	170.36	170.04	169.35	170.27	171.01	171.35	171.38
MAX	172.26	172.04	171.95	171.51	171.25	170.79	170.36	170.01	170.76	171.80	171.93	171.86
MIN	171.88	171.44	171.19	170.99	170.41	169.87	169.55	169.64	169.60	170.13	170.67	171.19

WTR YR 1983 MEAN 170.99 LOW 172.26 HIGH 169.55

341

305736084355801 Local number, 9F520.

Owner: Graham Bolton.

Owner: Graham Bolton.

WELL CHARACTERISTICS.--Unused private irrigation well, diameter 12 in., depth 251 ft, cased to 130 ft, open hole.

Measuring point: Floor of recorder shelter, 3.50 ft above land-surface datum.

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

land-surface datum, August 20, 1981.

		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		44.88	45.31	46.69	46.48	44.79	42.04	40.19	38.73	40.71	41.57	42.97	45.06
2		44.89	45.83	46.72	46.32	44.80	42.00	40.11	38.69	40.82	41.56	43.01	45.12
3		44.93	45.86	46.73	46.21	44.83	41.97	40.12	38.66	40.90	41.51	43.06	45.17
4		44.95	45.92	46.73	46.03	44.82	41.91	40.10	38.71	40.96	41.39	43.12	45.22
5		44.99	45.97	46.75	45.84	44.73	41.86	40.06	38.77	41.00	41.32	43.15	45.26
6		45.03	45.99	46.79	45.71	44.63	41.83	40.04	38.84	41.05	41.33	43.18	45.32
7		45.03	46.01	46.81	45.59	44.62	41.70	40.01	38.88	41.08	41.31	43.27	45.35
8		45.04	46.03	46.82	45.48	44.54	41.58	39.98	38.90	41.08	41.24	43.35	45.41
9		45.06	46.06	46.81	45.39	44.44	41.47	39.99	38.97	41.06	41.24	43.45	45.45
10		45.09	46.09	46.79	45.30	44.34	41.32	40.00	41.30	41.08	41.31	43.51	45.48
11		45.13	46.10	46.74	45.23	44.36	41.18	39.94	40.92	41.03	41.41	43.57	45.53
12		45.15	46.12	46.79	45.24	44.34	41.04	39.88	41.70	41.04	41.52	43.62	45.54
13		45.17	46.17	46.82	45.21	44.25	40.92	39.83	40.98	41.08	41.55	43.70	45.62
14		45.21	46.18	46.79	45.17	44.12	40.82	39.76	39.39	41.13	41.59	43.78	45.68
15		45.22	46.23	46.72	45.16	43.86	40.71	39.64	39.45	41.21	41.67	43.86	45.71
16		45.26	46.24	46.73	45.15	43.53	40.62	39.48	39.47	41.31	41.76	43.93	45.76
17		45.30	46.27	46.72	45.15	43.36	40.56	39.25	39.54	41.38	41.82	44.03	45.81
18		45.34	46.31	46.68	45.18	43.13	40.63	39.01	39.59	41.47	41.94	44.13	45.86
19		45.36	46.34	46.62	45.18	42.91	40.65	38.95	39.65	41.57	42.04	44.22	45.87
20		45.39	46.37	46.59	45.13	42.75	40.55	38.90	39.71	41.63	42.11	44.27	45.91
21		45.42	46.39	46.57	45.14	42.55	40.61	38.86	39.77	41.68	42.17	44.34	45.98
22		45.46	46.42	46.55	45.16	42.37	40.63	38.76	39.81	41.70	42.26	44.41	46.03
23		45.50	46.45	46.54	45.16	42.31	40.54	38.63	39.88	41.72	42.31	44.50	46.08
24		45.52	46.52	46.55	45.17	42.23	40.49	38.70	39.96	41.66	42.39	44.56	46.10
25		45.56	46.55	46.58	45.14	42.22	40.57	38.73	40.01	41.63	42.47	44.64	46.13
26		45.60	46.57	46.60	45.06	42.20	40.52	38.72	40.07	41.68	42.60	44.70	46.15
27		45.66	46.58	46.61	44.95	42.09	40.44	38.69	40.19	41.67	42.71	44.75	46.19
28		45.69	46.59	46.63	44.96	41.97	40.60	38.67	40.28	41.65	42.80	44.81	46.22
29		45.72	46.63	46.66	44.90	---	40.43	38.69	40.32	41.65	42.83	44.90	46.26
30		45.76	46.66	46.65	44.88	---	40.35	38.71	40.37	41.64	42.88		

WTR YR 1983 MEAN 43.35 LOW 46.82 HIGH 38.63

DOUGHERTY COUNTY

313554084062601 Local number, 13L2.

LOCATION.--Lat 31°35'54", long 84°06'25", Hydrologic Unit 03130008, Malone and Gardner Avenue near main entrance to Turner Field, Albany.

Owner: City of Albany, Turner City.

AQUIFER.--Clayton Limestone.

WELL CHARACTERISTICS.--Drilled unused supply well, diameter 12 in. and 8 in., depth 760 ft, cased to 713 ft, open hole.

DATUM.--Altitude of land-surface is 212.84 ft, National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 3.2 ft above land-surface datum.

REMARKS.--Well pumped and sounded to a depth of 760 ft, June 21, 1978: water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted March 17, 1977. Water levels for period of missing recorder record, January 1-2, were estimated.

PERIOD OF RECORD.--December 1957 to December 1959, January 1962 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 38.19 ft below land-surface datum, April 1, 1959; lowest, 153.04 ft below land-surface datum, August 1, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1952 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	135.27	133.36	130.43	122.69	125.57	117.23	110.74	115.13	118.75	125.79	135.71	140.10
2	135.92	133.59	131.36	121.92	125.53	117.12	110.57	116.29	119.53	125.55	134.61	139.59
3	136.49	137.93	132.10	120.97	125.78	116.49	110.52	115.49	120.10	123.78	134.18	140.69
4	136.54	138.90	132.27	120.39	126.02	116.75	110.06	114.93	121.67	125.67	133.99	140.18
5	135.05	137.17	132.23	122.75	123.20	117.91	109.57	115.68	121.08	125.72	134.37	137.56
6	136.57	137.12	132.52	124.39	120.98	117.55	109.74	116.45	121.12	125.73	134.51	138.73
7	137.47	136.13	131.18	123.74	119.54	117.83	109.93	116.97	120.96	124.49	134.52	139.57
8	137.82	134.69	131.00	123.63	118.60	117.90	110.17	116.50	121.69	124.60	134.35	140.07
9	137.54	134.99	131.04	121.47	120.45	117.41	110.57	116.50	123.04	125.97	134.83	140.26
10	137.52	136.65	131.94	122.85	122.29	117.98	110.80	118.09	122.60	126.56	135.38	139.95
11	137.10	136.21	131.96	123.35	120.65	118.29	110.40	117.99	123.00	126.51	135.74	139.45
12	135.96	137.27	129.96	125.43	119.48	118.78	110.28	117.40	123.12	126.98	135.44	139.25
13	136.54	135.75	129.25	125.65	118.23	118.79	110.75	118.56	122.52	127.43	135.23	139.48
14	136.04	135.20	131.48	124.33	118.25	118.46	114.20	117.56	123.25	128.16	134.43	139.19
15	137.15	135.73	132.15	123.46	119.53	116.45	115.57	118.54	124.15	128.81	134.62	139.19
16	136.77	135.91	132.51	125.77	118.86	115.00	116.28	116.32	124.81	129.23	134.33	138.71
17	137.26	135.62	131.63	126.05	118.04	114.41	116.85	116.63	124.79	129.79	134.59	138.24
18	136.96	136.37	130.58	126.48	118.05	115.49	117.00	116.62	125.97	130.44	135.56	137.63
19	136.65	136.85	130.79	126.66	118.19	117.03	115.83	116.77	126.23	131.26	135.97	136.37
20	136.59	136.88	129.83	126.63	117.73	115.81	116.94	117.90	126.10	131.86	136.21	136.21
21	136.77	136.73	130.40	124.62	116.64	116.76	116.58	118.12	126.14	130.85	136.39	136.67
22	137.11	136.47	128.30	126.32	117.44	115.88	115.64	118.24	124.58	132.34	136.66	136.12
23	137.60	136.23	128.53	126.68	117.64	114.88	114.83	118.29	125.13	133.51	137.15	136.24
24	137.39	136.17	128.23	127.08	118.20	112.67	113.79	118.26	126.22	134.18	137.28	136.95
25	137.17	135.80	128.59	127.51	119.15	112.43	112.38	119.18	126.90	134.40	137.64	135.21
26	137.29	132.47	128.66	127.97	119.99	112.22	115.11	118.36	126.66	134.93	137.91	135.90
27	137.36	130.66	126.41	127.90	119.51	111.47	114.53	118.64	125.04	134.51	138.84	134.07
28	139.47	129.27	128.06	127.65	117.90	110.82	114.59	119.00	125.34	135.58	139.25	134.16
29	137.23	128.56	127.66	127.18	---	110.34	115.29	118.73	124.86	135.12	138.78	134.43
30	138.13	128.76	126.08	126.77	---	110.29	115.72	118.36	125.64	135.64	139.40	135.30
31	139.43	---	124.10	126.09	---	110.47	---	118.59	---	135.93	139.14	---
MEAN	137.01	135.45	130.04	124.96	120.05	115.52	113.17	117.44	123.70	129.72	136.03	137.85
MAX	138.47	138.90	132.52	127.97	126.02	118.79	117.00	119.18	126.90	135.93	139.40	140.69
MIN	135.05	128.56	124.10	120.89	116.64	110.29	109.57	114.93	118.75	123.78	133.99	134.07

WTR YR 1983 MEAN 126.79 LOW 140.69 HIGH 109.57

DOUGHERTY COUNTY

313748084002901 Local number, 13L3.

LOCATION (REVISED).--Lat 31°33'13", long 84°00'21", Hydrologic Unit 03130008, near northeast corner of Marine Corps Supply Center, Acree, Ga.

Owner: City of Albany and Dougherty County.

AQUIFER.--Floridan aquifer system.

WELL CHARACTERISTICS.--Drilled unused supply well, diameter 6 in., depth 259 ft, cased to 206 ft, open hole.

DATUM.--Altitude of land-surface is 225 ft, National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 4.10 ft above land-surface datum.

REMARKS.--Well pumped and sounded June 21, 1978; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted March 17, 1977.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 17.41 ft below land-surface datum, April 2, 1965; lowest, 44.89 ft below land-surface datum, December 13, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.75	37.63	33.27	35.75	32.66	27.29	23.08	22.02	24.93	26.69	29.73	32.17
2	36.76	37.63	33.37	35.07	32.35	27.45	22.90	22.17	25.15	26.73	29.77	32.14
3	36.80	37.91	32.33	34.66	32.31	27.49	23.03	22.22	25.27	26.80	29.80	32.19
4	36.85	37.91	32.10	34.58	32.23	27.45	23.18	22.35	25.23	26.93	29.85	32.22
5	36.95	37.92	32.29	34.35	31.82	27.30	23.29	22.52	25.40	26.80	29.92	32.23
6	37.04	37.93	33.39	34.08	31.52	26.51	23.43	22.72	25.50	26.85	29.96	32.30
7	36.98	37.32	33.43	33.35	31.32	25.60	23.53	22.84	25.49	26.99	29.95	32.28
8	36.99	37.91	33.47	33.60	31.37	25.29	23.53	22.86	25.42	27.10	30.03	32.48
9	37.00	37.94	33.38	33.47	31.23	24.95	23.53	23.04	25.49	27.22	30.02	32.56
10	37.03	37.98	33.33	33.41	30.87	24.62	23.40	23.30	25.62	27.30	30.12	32.62
11	37.11	37.93	33.11	33.50	31.03	24.50	23.18	23.48	25.67	27.45	30.25	32.69
12	37.13	37.99	33.07	33.67	31.37	24.42	23.00	23.56	25.67	27.63	30.32	32.76
13	37.14	38.11	33.12	33.80	31.00	24.34	22.93	23.66	25.79	27.76	30.38	32.70
14	37.22	38.28	37.98	33.77	29.92	24.32	22.55	23.76	25.37	27.82	30.45	32.62
15	37.15	38.15	37.98	33.72	28.90	24.32	22.17	23.85	25.95	27.91	30.53	32.65
16	37.16	38.15	37.72	33.79	28.35	24.30	21.87	23.83	26.07	28.02	30.61	32.92
17	37.35	38.13	37.54	33.54	28.00	24.19	21.70	23.79	26.21	28.14	30.68	33.03
18	37.35	38.14	37.34	33.97	27.82	24.17	21.53	23.83	26.32	28.27	30.78	33.16
19	37.35	38.16	37.17	34.05	27.64	24.17	21.67	23.83	26.40	28.43	30.90	33.22
20	37.35	38.13	37.22	33.92	27.64	23.87	21.85	23.78	26.50	28.63	31.03	33.22
21	37.40	38.12	37.32	33.78	27.54	23.85	22.02	23.81	26.58	28.79	31.11	33.23
22	37.41	38.11	37.45	33.80	27.33	24.03	22.05	23.82	26.52	28.87	31.22	33.34
23	37.49	38.13	37.50	33.73	27.29	23.83	21.82	23.87	26.63	28.93	31.39	33.41
24	37.52	38.23	37.54	33.70	27.29	23.65	21.77	24.00	26.48	28.96	31.54	33.46
25	37.57	38.31	37.62	33.62	27.37	23.83	21.93	24.02	26.42	29.08	31.64	33.48
26	37.63	38.27	37.64	33.52	27.52	23.73	22.02	24.07	26.51	29.22	31.75	33.48
27	37.69	38.25	37.67	33.38	27.33	23.52	22.03	24.18	26.58	29.36	31.83	33.52
28	37.71	38.20	37.64	33.33	27.12	23.45	22.05	24.27	26.58	29.44	31.82	33.58
29	37.76	38.27	36.35	33.15	---	23.35	22.00	24.32	26.58	29.52	31.87	33.66
30	37.81	38.33	35.93	33.04	---	23.10	22.02	24.42	26.65	29.60	31.98	33.71
31	37.86	---	35.57	32.99	---	23.11	---	24.68	---	29.67	32.12	---
MEAN	37.27	38.08	37.71	33.84	29.58	24.71	22.50	23.51	25.99	28.09	30.75	32.90
MAX	37.86	38.33	38.47	35.75	32.66	27.49	23.53	24.68	26.65	29.67	32.12	33.71
MIN	36.75	37.98	35.57	32.99	27.12	23.10	21.53	22.08	24.93	26.69	29.73	32.14

WTR YR 1983 MEAN 30.42 LOW 38.47 HIGH 21.53

345

FULTON COUNTY

334207084254801 Local number, 10DD2.

LOCATION.--Lat 33°42'07", long 84°25'48", Hydrologic Unit 03130002, 0.25 mi south of main entrance, 260 ft west of Roosevelt Highway.

Owner: U.S. Army, Ft. McPherson.

AQUIFER.--Biotite gneiss.

WELL CHARACTERISTICS.--Drilled unused supply well, diameter 12 in., depth 338 ft, cased to 41 ft, open hole.

DATUM.--Altitude of land-surface datum is 1,013 ft, from topographic map.

Measuring point: At land-surface datum

REMARKS.--Well pumped and sounded February 14, 1976, to a depth of 338 ft. Borehole geophysical survey conducted November 19, 1974.

PERIOD OF RECORD.--November 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--highest water level, 0.10 ft below land-surface datum, March 30, 1980; lowest, 8.09 ft below land-surface datum, September 1-2, 1983.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.16	5.76	5.52	5.06	4.74	4.43	4.09	4.55	5.26	6.11	7.29	8.09
2	6.06	5.70	5.46	4.72	4.38	4.52	4.00	4.54	5.35	6.12	7.30	8.09
3	6.09	5.68	5.46	4.45	4.32	4.57	4.04	4.48	5.36	6.14	7.26	8.02
4	6.14	5.72	5.40	4.64	4.60	4.55	4.18	4.52	5.34	6.17	7.16	7.91
5	6.27	5.85	5.15	4.72	4.70	4.44	4.23	4.61	5.38	6.16	7.14	7.83
6	6.37	5.94	4.97	4.72	4.58	4.20	4.22	4.69	5.40	6.16	7.14	7.80
7	6.31	5.93	5.13	4.72	4.52	4.07	4.18	4.70	5.41	6.27	7.12	7.79
8	6.08	5.93	5.26	4.75	4.59	4.18	3.94	4.64	5.44	6.36	7.15	7.78
9	5.95	5.94	5.26	4.75	4.58	4.22	3.64	4.72	5.51	6.31	7.20	7.76
10	5.91	5.98	5.22	4.74	4.48	4.38	3.76	4.80	5.61	6.29	7.32	7.75
11	5.94	5.96	5.02	4.72	4.56	4.45	3.90	4.84	5.64	6.34	7.47	7.73
12	5.92	5.86	4.74	4.86	4.72	4.48	4.01	4.83	5.64	6.39	7.52	7.68
13	5.73	5.96	4.92	4.92	4.70	4.48	4.09	4.82	5.55	6.43	7.60	7.65
14	5.52	5.99	5.05	4.86	4.55	4.46	4.12	4.84	5.67	6.46	7.70	7.65
15	5.44	6.00	5.00	4.82	4.58	4.46	4.16	4.84	5.66	6.52	7.72	7.71
16	5.46	6.03	4.96	4.86	4.58	4.44	4.26	4.79	5.70	6.67	7.62	7.72
17	5.59	5.99	4.99	4.96	4.56	4.40	4.28	4.92	5.77	6.78	7.57	7.70
18	5.63	5.96	5.00	4.96	4.62	4.42	4.18	4.98	5.79	6.85	7.56	7.71
19	5.64	5.96	4.92	5.02	4.63	4.51	4.27	4.96	5.82	6.88	7.58	7.73
20	5.61	5.96	4.98	4.95	4.72	4.46	4.38	4.94	5.84	6.90	7.62	7.68
21	5.60	5.93	5.04	4.85	4.73	4.34	4.42	4.94	5.87	6.94	7.74	7.51
22	5.62	5.86	5.06	4.86	4.52	4.50	4.42	4.90	5.88	6.94	7.66	7.46
23	5.65	5.81	5.10	4.82	4.27	4.54	4.28	4.93	5.93	6.96	7.93	7.55
24	5.67	5.89	5.08	4.87	4.34	4.42	4.26	5.00	5.92	6.99	7.98	7.53
25	5.65	6.02	5.12	4.88	4.50	4.34	4.45	5.06	5.90	7.01	8.05	7.58
26	5.72	6.02	5.13	4.88	4.64	4.20	4.54	5.07	5.96	7.08	8.01	7.53
27	5.76	5.94	5.13	4.82	4.62	3.89	4.56	5.11	6.02	7.18	8.00	7.51
28	5.76	5.94	5.05	4.85	4.47	3.94	4.55	5.16	6.04	7.27	7.99	7.51
29	5.74	5.68	5.01	4.85	---	4.12	4.56	5.12	6.04	7.30	8.00	7.54
30	5.77	5.66	5.07	4.80	---	4.16	4.57	5.11	6.08	7.32	8.04	7.54
31	5.78	---	5.08	4.84	---	4.09	---	5.15	---	7.31	8.06	---
MEAN	5.82	5.89	5.10	4.82	4.56	4.35	4.22	4.86	5.70	6.66	7.60	7.70
MAX	6.37	6.03	5.52	5.06	4.74	4.57	4.57	5.16	6.08	7.32	8.06	8.09
MIN	5.44	5.66	4.74	4.45	4.27	3.89	3.64	4.48	5.26	6.11	7.12	7.49

WTR YR 1983 MEAN 5.61 LOW 3.09 HIGH 3.64

GLYNN COUNTY

310726081285801 Local number, 34G1.

LOCATION.--Lat 31°07'26", long 81°28'58", Hydrologic Unit 03070203, Babcock and Wilcox yards near Newcastle Street and King Shrimp Co. in Brunswick.

Owner: Babcock and Wilcox Co.

AQUIFER.--Floridan aquifer system.

WELL CHARACTERISTICS.--Drilled unused industrial well, diameter 18 in., depth 1,006 ft, cased to 589 ft, open hole.

DATUM.--Altitude of land-surface is 9 ft, National Geodetic Vertical Datum of 1929.

Measuring point: Center of recorder, 2.0 ft above land-surface datum.

REMARKS.--Borehole geophysical survey conducted May 28, 1964. Water levels for periods of missing recorder record, April 7-13, July 1, 11, and September 5, were estimated.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 24.93 ft above land-surface datum, December 12, 1960; lowest, 3.47 ft above land-surface datum, July 21, 1977.

WATER LEVEL, IN FEET ABOVE LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.10	11.20	10.40	12.50	11.60	12.00	12.60	12.70	11.50	11.96	11.90	11.00
2	14.50	11.10	10.40	12.50	12.00	11.90	13.00	12.60	11.40	12.00	11.70	11.25
3	14.90	11.20	10.50	12.40	11.60	11.90	13.00	12.50	11.40	12.00	11.68	11.75
4	15.00	11.10	10.60	11.90	11.00	11.50	12.80	12.40	11.50	12.15	11.75	11.90
5	14.20	10.70	11.10	12.20	11.20	12.00	12.60	12.50	11.50	12.30	11.60	11.65
6	13.70	10.60	10.90	12.10	11.80	12.00	12.60	12.30	12.10	12.20	11.75	11.40
7	13.20	11.10	10.70	12.10	11.50	11.90	12.64	12.50	12.50	12.30	11.86	11.23
8	13.30	11.00	10.80	12.10	11.30	12.10	12.65	12.60	13.10	12.30	11.97	11.25
9	13.10	10.90	10.80	12.30	11.50	12.20	12.71	12.30	13.40	12.30	12.00	10.96
10	12.90	10.80	10.70	12.40	12.00	12.10	12.75	12.20	13.60	12.20	11.99	11.11
11	12.40	11.00	11.30	12.10	11.80	12.10	12.79	12.20	13.70	12.10	11.96	11.01
12	12.10	11.10	11.50	11.50	11.50	12.20	12.82	11.70	13.30	11.80	11.92	11.10
13	12.10	11.00	10.70	11.60	12.00	12.10	12.86	12.00	12.80	11.60	11.87	10.56
14	11.90	11.10	10.80	11.60	12.00	12.20	12.90	12.00	12.40	11.50	11.65	10.52
15	11.80	11.00	11.20	12.20	11.90	12.50	12.90	11.80	12.30	11.40	11.35	10.54
16	11.70	11.10	11.20	12.10	12.10	13.00	13.00	11.90	12.00	11.60	11.15	10.82
17	11.80	11.20	11.00	11.90	12.50	13.00	13.00	12.00	11.90	11.80	11.20	10.97
18	11.40	11.20	11.20	11.30	12.00	12.80	13.10	12.10	12.00	11.60	11.43	11.04
19	11.30	11.00	11.50	11.20	12.00	12.50	13.00	11.80	12.10	11.40	12.03	11.16
20	11.40	11.20	11.60	11.40	12.10	12.60	13.00	11.90	11.90	11.30	12.10	11.12
21	11.40	11.50	11.60	11.90	11.90	12.60	12.90	11.90	11.80	11.30	11.95	11.25
22	11.30	11.50	11.70	11.90	12.10	12.10	13.10	11.90	12.00	11.30	11.70	11.35
23	11.30	11.40	11.90	11.90	12.30	12.20	13.60	11.80	12.10	11.60	11.40	11.42
24	11.50	11.40	12.30	11.40	12.20	12.60	13.60	11.70	12.20	11.60	11.38	11.60
25	11.10	11.30	13.20	11.20	12.20	12.20	13.40	11.70	12.30	11.80	11.42	11.64
26	11.10	11.30	14.00	11.20	11.80	12.10	13.10	11.50	12.30	11.70	11.45	11.77
27	11.20	11.10	14.70	11.20	12.00	12.50	13.10	11.50	12.00	11.80	11.45	11.55
28	11.00	11.20	14.00	11.30	12.20	12.20	13.00	11.70	11.80	12.00	11.40	11.70
29	11.10	11.10	13.20	11.20	---	12.00	12.80	11.90	11.90	11.90	11.35	11.60
30	11.20	10.80	12.70	11.70	---	12.00	12.70	12.00	11.93	12.00	11.20	11.70
31	11.30	---	12.60	11.50	---	12.10	---	11.70	---	12.20	11.00	---
MEAN	12.27	11.11	11.63	11.80	11.86	12.24	12.94	12.04	12.22	11.84	11.63	11.26
MAX	15.00	11.50	14.30	12.50	12.50	13.00	13.60	12.70	13.70	12.30	12.10	11.90
MIN	11.00	10.70	10.40	11.20	11.00	11.80	12.60	11.50	11.40	11.30	11.00	10.52
WTR YR 1983	MEAN 11.90		MAX 15.00		MIN 10.40							

GLYNN COUNTY

311007081301702 Local number, 33H133.

LOCATION.--Lat 31°10'07", long 81°30'17", Hydrologic Unit 03070203, near the intersection of Newcastle and Oak Streets to the south of the cemetery in Brunswick.

Owner: U.S. Geological Survey, test well 6.

AQUIFER.--Floridan aquifer system.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 790 ft, cased to 520 ft, open hole.

DATUM.--Altitude of land-surface is 7 ft, National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 3.0 ft above land-surface datum.

REMARKS.--Well pumped monthly; water-quality samples collected at conclusion of pumping. Borehole geophysical survey conducted September 26, 1977. Water levels for periods of missing recorder records, October 5-11, December 3-25, 28-31, February 27, March 1-2, and June 12-28, were estimated. Well was flowing October 1-4, December 26-27, and June 7-11.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 9.07 ft above land-surface datum, December 26, 1965; lowest, 21.87 ft below land-surface datum, July 22, 1977.

WATER LEVEL, IN FEET ABOVE OR BELOW (-) LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	-9.80	-9.15	-6.50	-9.50	-8.70	-6.90	-5.27	-8.88	-6.27	-6.57	-8.80
2	---	-9.32	-8.73	-7.52	-9.42	-9.23	-6.27	-8.45	-8.40	-6.63	-6.42	-9.07
3	---	-9.10	-9.00	-5.85	-9.72	-9.56	-5.84	-7.86	-8.18	-6.25	-7.00	-9.14
4	---	-9.16	-5.91	-5.32	-10.40	-9.50	-5.55	-8.66	-3.66	-5.81	-7.44	-8.91
5	.19	-9.55	-8.66	-6.78	-10.04	-9.65	-5.32	-8.38	-6.00	-5.72	-7.24	-8.82
6	.31	-9.14	-8.50	-8.30	-9.41	-9.19	-6.00	-8.80	-2.05	-6.78	-7.36	-9.30
7	-4.37	-9.54	-5.92	-9.14	-9.16	-9.32	-6.58	-8.57	---	-6.16	-7.48	-9.43
8	-6.13	-9.24	-9.40	-9.25	-9.18	-8.18	-6.43	-3.66	---	-7.32	-7.05	-9.74
9	-7.24	-8.97	-10.17	-8.22	-9.37	-7.42	-6.72	-3.54	---	-6.99	-7.75	-10.38
10	-7.78	-9.60	-10.24	-8.01	-9.13	-8.15	-6.62	-8.10	---	-7.56	-8.64	-10.91
11	-7.89	-8.95	-9.67	-7.88	-9.98	-8.12	-6.98	-8.18	---	-7.72	-8.35	-10.72
12	-7.78	-9.59	-9.70	-6.71	-10.08	-7.87	-6.59	-8.14	-1.40	-7.66	-7.92	-11.16
13	-7.80	-9.16	-9.76	-7.93	-9.52	-8.12	-7.08	-8.18	-3.55	-8.40	-6.94	-11.27
14	-8.35	-8.56	-9.32	-7.56	-8.91	-8.69	-6.84	-9.10	-3.93	-8.63	-7.02	-11.32
15	-8.66	-8.03	-9.97	-7.75	-8.38	-8.70	-5.91	-9.14	-4.71	-8.69	-8.08	-10.92
16	-8.97	-7.75	-8.93	-8.94	-5.02	-3.32	-6.84	-9.10	-6.66	-8.04	-7.89	-10.94
17	-9.06	-8.19	-8.71	-9.42	-3.08	-8.09	-6.76	-8.60	-8.60	-7.99	-8.36	-10.47
18	-8.84	-8.90	-8.59	-8.51	-8.59	-7.36	-7.00	-5.89	-8.29	-8.47	-9.05	-10.17
19	-8.42	-8.42	-7.92	-8.60	-8.22	-7.80	-6.58	-9.02	-7.81	-7.88	-9.36	-9.61
20	-7.76	-9.33	-7.72	-8.64	-8.54	-8.02	-6.39	-3.62	-8.14	-8.19	-9.30	-9.08
21	-8.61	-8.13	-7.80	-9.17	-8.58	-7.63	-6.78	-9.00	-8.11	-8.51	-9.02	-9.08
22	-9.08	-3.46	-8.53	-9.76	-7.31	-7.30	-6.54	-9.04	-7.33	-8.43	-9.00	-8.90
23	-9.03	-8.52	-3.39	-9.52	-8.21	-7.46	-6.04	-9.04	-7.18	-8.19	-9.82	-8.99
24	-9.36	-8.22	-3.30	-9.95	-8.64	-8.22	-5.10	-8.30	-6.52	-7.35	-10.00	-9.00
25	-9.00	-8.54	.66	-9.76	-8.81	-8.51	-5.90	-8.94	-6.78	-7.24	-10.44	-8.27
26	-8.03	-7.34	---	-9.50	-8.94	-8.73	-6.24	-8.92	-7.48	-6.43	-10.39	-8.67
27	-9.04	-8.53	---	-9.20	-8.98	-8.58	-6.26	-8.18	-8.06	-6.60	-9.95	-8.18
28	-9.78	-7.13	-1.20	-9.42	-9.06	-8.21	-7.06	-7.32	-7.64	-6.13	-9.69	-8.23
29	-9.54	-8.49	-3.40	-9.53	---	-8.52	-7.53	-7.82	-7.39	-5.95	-9.36	-7.27
30	-9.50	-9.23	-4.41	-9.23	---	-8.74	-8.23	-7.98	-6.45	-6.12	-9.15	-7.84
31	-9.56	---	-5.71	-9.42	---	-7.44	---	-7.80	---	-5.77	-9.26	---
MEAN	---	-8.75	---	-8.41	-9.02	-8.37	-6.54	-8.52	---	-7.22	-8.43	-9.49
MAX	---	-7.19	---	-5.32	-7.31	-7.30	-5.32	-7.60	---	-5.72	-6.42	-7.27
MIN	---	-9.90	---	-9.95	-10.40	-9.66	-3.23	-9.14	---	-8.69	-10.44	-11.32

GROUND-WATER LEVELS

LAMAR COUNTY

330858084122901 Local number, 1221.

LOCATION.--Lat 33°08'58", long 84°12'29", Hydrologic Unit 03130005, north of Milner, Ga., at the gas storage center.

Owner: Dixie Pipeline Co.

AQUIFER.--Residuum.

WELL CHARACTERISTICS.--Bored observation well, diameter 24 in., depth 31 ft, cased to 31 ft.

DATUM.--Altitude of land-surface is 852 ft, National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 2.0 ft above land-surface datum.

REMARKS.--Water levels for periods of missing recorder record, November 29 to December 4, December 18 to January 6, May 21-22, 28-30, June 4-5, 25-26, July 2-4, 9-10, 14-15, August 13-14, 20-21, 27-28, September 3-5, 10-11, 17-18, and 24-25, were estimated.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.37 ft below land-surface datum, April 9, 1973; lowest, 15.20 ft below land-surface datum, December 1, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.46	12.82	11.76	9.09	8.41	7.37	5.12	6.71	8.48	9.79	10.90	11.55
2	12.48	12.84	11.56	8.96	8.20	7.40	6.04	6.76	8.52	9.68	10.88	11.58
3	12.52	12.86	11.33	8.87	8.05	7.44	6.12	6.78	8.64	9.58	10.89	11.61
4	12.56	12.88	11.12	8.77	8.00	7.46	6.28	6.54	8.58	9.46	10.93	11.63
5	12.60	12.76	10.96	8.59	7.94	7.42	6.35	6.94	8.56	9.32	10.96	11.64
6	12.63	12.71	10.78	8.47	7.82	7.34	6.37	7.04	8.68	9.89	10.98	11.65
7	12.66	12.65	10.62	8.39	7.76	7.18	6.36	7.12	8.66	9.93	10.88	11.69
8	12.68	12.65	10.48	8.39	7.80	7.04	6.15	7.14	8.74	10.03	10.75	11.73
9	12.70	12.65	10.40	8.42	7.83	7.04	5.72	7.22	8.76	10.01	10.68	11.77
10	12.74	12.68	10.36	8.47	7.81	7.03	5.50	7.31	8.80	10.03	10.64	11.77
11	12.75	12.72	10.21	8.52	7.86	7.16	5.48	7.37	8.84	10.09	10.69	11.78
12	12.76	12.74	10.02	8.59	8.00	7.23	5.54	7.41	8.86	10.14	10.89	11.78
13	12.70	12.74	9.83	8.70	8.06	7.28	5.62	7.46	8.90	10.18	10.92	11.72
14	12.58	12.70	9.68	8.80	7.94	7.34	5.68	7.52	8.94	10.19	10.94	11.80
15	12.47	12.65	9.53	8.83	7.80	7.40	5.76	7.56	8.98	10.19	10.95	11.84
16	12.37	12.63	9.43	8.87	7.70	7.44	5.88	7.59	9.04	10.21	10.99	11.94
17	12.33	12.62	9.47	8.94	7.62	7.43	5.96	7.68	9.10	10.32	11.02	11.93
18	12.32	12.58	9.36	9.01	7.52	7.40	6.29	7.75	9.14	10.36	11.60	11.95
19	12.33	12.52	9.24	9.10	7.67	7.45	6.23	7.73	9.18	10.40	11.20	11.95
20	12.35	12.48	9.21	9.16	7.74	7.40	6.12	7.80	9.22	10.42	11.20	11.76
21	12.38	12.43	9.21	9.20	7.80	7.31	6.22	7.85	9.26	10.45	11.20	11.60
22	12.44	12.36	9.19	9.20	7.70	7.26	6.34	7.89	9.28	10.42	11.21	11.37
23	12.48	12.30	9.15	9.14	7.58	7.15	6.44	7.97	9.29	10.52	11.25	11.21
24	12.53	12.32	9.13	9.00	7.51	7.02	6.36	8.02	9.50	10.57	11.29	11.22
25	12.57	12.35	9.16	8.90	7.47	6.92	6.28	8.07	9.47	10.61	11.33	11.22
26	12.62	12.36	9.14	8.84	7.52	6.76	6.37	8.20	9.51	10.65	11.42	11.22
27	12.66	12.36	9.13	8.72	7.52	6.42	6.48	8.32	9.53	10.70	11.44	11.49
28	12.68	12.32	9.13	8.66	7.42	6.26	6.56	8.34	9.59	10.75	11.43	11.32
29	12.72	12.30	9.12	8.63	---	6.32	6.61	8.40	9.60	10.80	11.46	11.38
30	12.76	11.98	9.14	8.53	---	6.29	6.66	8.42	9.64	10.83	11.49	11.56
31	12.80	---	9.13	8.52	---	6.21	---	8.39	---	10.87	11.51	---
MEAN	12.57	12.56	9.67	9.79	7.79	7.10	6.13	7.60	9.04	10.24	11.09	11.62
MAX	12.80	12.96	11.76	9.20	8.41	7.46	6.66	8.42	9.64	10.87	11.60	11.95
MIN	12.32	11.98	9.12	8.39	7.42	6.21	5.48	6.71	8.48	9.32	10.64	11.21

WTR YR 1983 MEAN 9.55 LOW 12.86 HIGH 5.48

LAURENS COUNTY

322652083033001 Local number, 21T1.

LOCATION.--Lat 32°26'52", long 83°03'30", Hydrologic Unit 03070102, approximately 1.8 mi northeast of Dexter, Ga.

Owner: Danny Hogan.

AQUIFER.--Floridan aquifer system.

WELL CHARACTERISTICS.--Drilled unused domestic well, diameter 4 in., depth 123 ft, cased to 89 ft, open hole.

DATUM.--Altitude of land-surface datum is 252 ft, from barometric levels.

Measuring point: Floor of recorder shelter, 2.57 ft above land-surface datum.

REMARKS.--Borehole geophysical survey conducted November 1973. Water levels for period of missing recorder record, March 2-22, were estimated.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 24.04 ft below land-surface datum, February 17, 18, 1983; lowest, 39.58 ft below land-surface datum, November 12, 1968.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31.48	30.86	29.68	26.28	25.15	24.08	24.25	26.00	29.84	31.90	34.17	32.17
2	31.52	30.83	29.72	25.90	24.98	24.09	24.24	26.09	30.02	31.75	33.69	32.21
3	31.62	30.91	29.76	25.55	24.94	24.11	24.32	26.15	30.15	31.67	32.65	32.18
4	31.71	30.91	29.76	25.37	24.95	24.12	24.48	26.23	30.26	31.63	31.61	32.17
5	31.83	31.01	29.73	25.21	24.98	24.14	24.59	26.38	30.39	31.59	30.87	32.14
6	31.95	31.08	29.77	25.09	24.38	24.15	24.66	26.54	30.51	31.53	30.35	32.02
7	32.03	31.13	29.88	25.03	24.86	24.17	24.72	26.69	30.57	31.54	29.96	31.87
8	32.07	31.18	29.98	25.01	24.91	24.18	24.75	26.79	30.54	31.61	29.70	31.79
9	32.09	31.24	30.01	25.00	24.95	24.19	24.75	26.91	30.56	31.66	29.54	31.77
10	32.12	31.27	30.02	25.00	24.94	24.21	24.72	27.09	30.63	31.70	29.45	31.77
11	31.71	31.31	29.92	25.00	24.92	24.22	24.69	27.24	30.71	31.81	29.41	31.77
12	31.12	31.31	29.57	25.06	25.03	24.34	24.69	27.37	30.79	31.94	29.39	31.79
13	30.67	31.32	29.17	25.16	25.02	24.25	24.72	27.50	30.85	32.08	29.39	31.74
14	30.39	31.37	28.77	25.21	24.60	24.27	24.75	27.63	30.95	32.19	29.47	31.50
15	30.22	31.41	28.41	25.22	24.30	24.28	24.75	27.75	31.04	32.28	29.59	31.20
16	30.10	31.46	28.15	25.29	24.15	24.30	24.76	27.84	31.16	32.38	29.73	30.93
17	30.10	31.47	27.90	25.35	24.04	24.31	24.82	27.98	31.30	32.50	29.89	30.75
18	30.12	31.39	27.76	25.47	24.04	24.32	24.83	28.15	31.41	32.63	30.04	30.64
19	30.12	31.12	27.59	25.60	24.06	24.34	24.88	28.28	31.52	32.77	30.21	30.59
20	30.10	30.79	27.51	25.66	24.14	24.35	25.00	28.37	31.60	32.90	30.40	30.55
21	30.09	30.49	27.48	25.59	24.19	24.37	25.11	28.47	31.68	33.03	30.58	30.47
22	30.13	30.22	27.49	25.52	24.16	24.38	25.21	28.54	31.72	33.13	30.77	30.48
23	30.19	30.02	27.49	25.41	24.11	24.38	25.16	28.63	31.79	33.23	30.96	30.57
24	30.26	29.92	27.48	25.35	24.24	24.33	25.15	28.76	31.84	33.33	31.15	30.66
25	30.33	29.92	27.52	25.32	24.42	24.39	25.31	28.85	31.89	33.45	31.33	30.72
26	30.43	29.69	27.56	25.31	24.48	24.49	25.47	29.00	32.02	33.57	31.47	30.77
27	30.53	29.80	27.60	25.27	24.52	24.37	25.59	29.18	32.12	33.70	31.59	30.93
28	30.61	29.70	27.61	25.28	24.11	24.31	25.69	29.32	32.13	33.85	31.68	30.90
29	30.67	29.62	27.46	25.33	---	24.32	25.80	29.44	32.12	33.96	31.80	31.01
30	30.75	29.64	27.10	25.28	---	24.33	25.90	29.54	32.05	34.06	31.95	31.11
31	30.83	---	26.66	25.24	---	24.26	---	29.66	---	34.15	32.11	---
MEAN	30.90	30.75	28.53	25.33	24.57	24.27	24.93	27.82	31.14	32.57	30.80	31.30
MAX	32.12	31.47	30.02	26.28	25.15	24.49	25.90	29.66	32.13	34.15	34.17	32.21
MIN	30.09	29.62	26.66	25.00	24.04	24.08	24.24	26.00	29.84	31.53	29.39	30.47

WTR YR 1983 MEAN 28.60 LOW 34.17 HIGH 24.04

GROUND-WATER LEVELS

LIBERTY COUNTY

314343081251901 Local number, 34M54.

LOCATION.--Lat 31°43'43", long 81°25'19", Hydrologic Unit 03060204, Riceboro, Ga., near entrance to Interstate Paper Co.

Owner: U.S. Geological Survey, test well 2.

AQUIFER.--Floridan aquifer system.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 802 ft, cased to 467 ft, open hole.

DATUM.--Altitude of land-surface is 19 ft, National Geodetic Vertical Datum of 1929.

REMARKS: --Well pumped July 11, 1979; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted June 15, 1976. Water levels for periods of missing recorder record, January 1-3 and August 6-8, were estimated.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.85 ft below land-surface datum, February 5, 1967; lowest, 24.30 ft below land-surface datum, December 20, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1932 TO SEPTEMBER 1983
MEAN VALUES

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.05	21.25	21.25	18.04	18.30	18.75	19.15	19.25	19.39	19.74	20.08	20.16
2	19.05	21.00	21.35	18.02	18.15	18.95	18.95	19.25	19.52	19.35	19.88	20.06
3	19.05	20.90	21.35	18.09	18.50	19.00	19.00	18.65	19.56	19.95	19.96	20.18
4	19.05	20.88	21.25	18.25	18.65	18.95	19.13	18.35	19.54	19.95	19.92	20.41
5	19.40	21.20	21.18	18.60	18.70	18.95	19.25	18.85	19.52	19.39	19.87	20.64
6	19.95	21.35	21.18	18.80	18.55	18.95	19.35	19.10	19.51	19.78	19.90	20.66
7	20.08	21.20	21.30	18.83	18.60	18.73	19.10	19.20	19.56	19.72	19.99	20.72
8	20.20	21.33	21.50	18.82	18.65	18.35	19.10	19.15	19.56	19.43	19.94	20.74
9	20.30	21.32	21.45	18.83	18.55	18.60	19.10	19.15	19.60	19.71	20.01	20.90
10	20.30	21.33	21.25	18.78	18.35	18.63	19.10	19.45	19.64	19.63	20.03	20.93
11	20.50	21.28	21.00	18.75	18.45	18.65	19.15	19.35	19.64	19.66	20.09	20.92
12	20.57	21.20	21.05	18.90	18.70	18.70	19.15	19.35	19.66	19.86	19.99	20.93
13	20.62	21.28	21.32	18.95	18.50	18.90	19.20	19.45	19.70	19.92	19.93	20.94
14	20.60	21.23	21.32	18.95	18.40	18.82	19.17	19.55	19.70	19.94	20.01	20.83
15	20.50	21.35	21.15	18.85	18.60	18.85	19.15	19.55	19.72	19.90	19.71	20.89
16	20.65	21.50	21.10	18.85	18.55	18.70	19.10	19.50	19.82	19.88	20.05	20.84
17	20.55	21.50	21.05	18.80	18.45	18.50	19.18	19.50	19.91	19.90	20.00	20.74
18	21.00	21.52	21.10	18.95	18.60	18.45	19.05	19.50	19.86	19.74	20.00	20.75
19	21.02	21.48	20.35	19.10	18.70	18.63	18.55	19.45	19.90	19.34	19.99	20.78
20	20.95	21.50	19.67	19.05	18.75	18.65	18.35	19.28	19.26	19.95	19.95	20.71
21	20.97	21.45	19.15	18.85	18.82	18.70	19.10	19.39	19.42	19.80	19.97	20.68
22	20.97	21.30	18.87	18.85	18.75	19.05	19.15	19.32	18.04	19.88	20.06	20.71
23	20.90	21.30	18.73	18.83	18.70	19.05	18.45	19.30	17.70	19.93	20.17	20.77
24	20.35	21.25	18.43	18.84	18.70	18.75	18.10	19.28	18.76	19.38	20.13	20.80
25	21.05	21.45	18.27	18.89	18.70	19.20	18.75	19.31	19.32	19.85	20.45	20.80
26	21.10	21.45	18.11	18.80	18.95	19.30	18.88	19.24	19.57	19.76	20.50	20.73
27	21.15	21.40	18.07	18.60	18.95	19.05	18.10	19.28	19.77	19.84	20.38	20.78
28	21.08	21.27	18.00	18.60	18.70	19.10	19.10	19.39	20.04	19.92	20.27	20.78
29	21.03	21.20	18.00	18.60	---	19.20	19.20	19.30	19.72	20.04	20.20	20.83
30	21.10	21.22	18.00	18.50	---	19.25	19.25	19.25	19.84	20.06	20.20	20.82
31	21.20	---	18.00	18.55	---	19.10	---	19.26	---	20.04	20.22	

WTR YR 1983 MEAN 19.71 LOW 21.52 HIGH 17.70

LIBERTY COUNTY

315214081235301 Local number, 34N89.

LOCATION.--Lat 31°52'14", long 81°23'53", Hydrologic Unit 03060204, north of Midway, Ga., near intersection of Georgia Highway 196 and U.S. Highway 17.

Owner: U.S. Geological Survey, test well 1.

AQUIFER.--Floridan aquifer system.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4 in., depth 789 ft, cased to 410 ft, open hole.

DATUM.--Altitude of land-surface is 17 ft, National Geodetic Vertical Datum of 1929.

Measuring point: Top of 4 in. casing, 1.33 ft above land-surface datum.

REMARKS.--Well pumped July 11, 1979; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted June 15, 1976. Water levels for period of missing recorder record, December 30-31, were estimated.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.34 ft below land-surface datum, March 6, 1967; lowest, 22.28 ft below land-surface datum, August 10, 11, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1952 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.75	18.30	18.95	17.70	16.50	16.10	16.45	16.52	17.03	17.80	18.14	18.45
2	18.65	18.75	19.00	17.43	16.35	16.25	16.30	16.50	17.19	17.51	18.13	18.42
3	18.60	18.65	18.95	17.39	16.45	16.35	16.30	16.40	17.23	17.83	18.09	18.48
4	18.55	18.70	18.90	17.47	16.65	16.40	16.50	16.38	17.21	17.83	18.08	18.58
5	18.60	18.35	18.85	17.35	16.65	16.35	16.55	16.45	17.23	17.78	18.08	18.61
6	18.60	18.95	18.90	17.28	16.45	16.28	16.53	16.55	17.24	17.82	18.06	18.65
7	18.55	18.95	19.00	17.22	16.50	16.20	16.50	16.62	17.22	17.92	18.02	18.67
8	18.50	18.95	19.05	17.16	16.60	16.10	16.45	16.55	17.23	17.96	18.00	18.70
9	18.50	18.95	18.98	17.10	16.60	16.10	16.40	16.60	17.31	17.90	18.05	18.75
10	18.50	19.00	18.90	17.07	16.40	16.15	16.43	16.70	17.42	17.36	18.02	18.76
11	18.55	18.95	18.70	16.95	16.45	16.25	16.45	16.75	17.48	17.93	18.03	18.73
12	18.60	18.85	18.75	17.05	16.65	16.25	16.50	16.73	17.47	17.95	17.99	18.79
13	18.55	18.90	18.95	17.15	16.45	16.30	16.55	16.75	17.49	17.95	18.02	18.78
14	18.55	18.93	18.90	17.10	16.25	16.30	16.50	16.73	17.54	17.96	18.08	18.76
15	18.55	18.98	18.85	16.90	16.45	16.25	16.40	16.75	17.57	17.94	18.13	18.85
16	18.65	19.00	18.70	16.95	16.35	16.10	16.40	16.70	17.67	17.97	18.18	18.86
17	18.60	18.90	18.70	16.90	16.25	15.90	16.42	16.60	17.75	18.02	18.17	18.87
18	18.90	18.92	18.72	17.00	16.35	15.85	16.30	16.95	17.79	18.10	18.19	18.90
19	18.85	18.95	18.61	17.08	16.40	16.10	16.35	16.95	17.83	18.11	18.19	18.93
20	18.80	18.98	18.58	17.00	16.50	16.10	16.45	16.91	17.87	18.18	18.21	18.86
21	18.80	18.95	18.61	16.75	16.55	16.15	16.48	16.87	17.85	18.20	18.27	18.72
22	18.80	18.90	18.64	16.75	16.35	16.45	16.48	16.81	17.79	18.12	18.35	18.86
23	18.35	18.90	18.53	16.70	16.15	16.43	16.22	16.81	17.77	18.10	18.43	18.94
24	18.80	18.95	18.43	16.80	16.15	16.20	16.05	16.80	17.69	18.06	18.54	18.97
25	18.80	19.15	18.41	16.80	16.25	16.50	16.25	16.83	17.68	18.06	18.58	18.94
26	18.90	19.10	18.32	16.78	16.50	16.60	16.40	16.83	17.70	18.03	18.55	18.88
27	18.90	19.05	18.21	16.60	16.45	16.43	16.45	16.37	17.75	18.08	18.50	18.81
28	18.90	18.93	18.02	16.70	16.20	16.48	16.45	16.97	17.79	18.13	18.45	18.79
29	18.85	18.85	17.89	16.75	---	16.60	16.52	16.93	17.77	18.15	18.40	18.78
30	18.90	18.95	17.33	16.65	---	16.55	16.52	16.88	17.80	18.15	18.44	18.75
31	18.90	---	17.77	16.65	---	16.42	---	16.90	---	18.14	18.45	---
MEAN	18.71	18.92	18.64	17.01	16.42	16.27	16.42	16.74	17.55	18.00	18.22	18.76
MAX	18.90	19.15	19.05	17.70	16.65	16.60	16.55	16.97	17.87	18.20	18.58	18.97
MIN	18.50	18.65	17.77	16.60	16.15	15.85	16.05	16.38	17.03	17.72	17.99	18.42

WTR YR 1983 MEAN 17.64 LOW 19.15 HIGH 15.85

LONG COUNTY

Owner: U.S. Geological Survey, test well 3.

WELL CHARACTERISTICS.--Drilled observation well, diameter 4-3 in, depth 872 ft, cased to 538 ft, open hole.

DATUM.--Altitude of land-surface is 61.2 ft, National Geodetic Vertical Datum of 1929.

Measuring point: Top of recorder shelter, 3.5 ft above land-surface datum.

REMARKS.--Well pumped and sounded June 17, 1976, to depth of 861 ft; water-quality sample collected. Borehole geophysical survey conducted July 28, 1976. Water levels for period of missing recorder record, December 19-31, were estimated.

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

EXTREMES FOR PERIOD OF RECORD.--highest water level, 34.04 ft below land-surface datum, January 14, 1968; lowest, 53.22 ft below land-surface datum, July 27, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49.06	49.63	49.14	45.30	46.02	46.70	46.99	47.33	47.82	47.18	47.50	48.46
2	49.02	49.56	49.14	45.12	45.88	46.87	46.87	47.35	47.92	47.18	47.50	48.47
3	49.07	49.52	49.10	45.02	46.00	46.96	46.94	47.27	47.94	47.22	47.50	48.56
4	49.10	49.55	48.98	45.02	46.22	47.04	47.12	47.24	47.83	47.24	47.52	48.70
5	49.18	49.72	48.35	44.92	46.28	47.02	47.20	47.32	47.83	47.14	47.54	48.70
6	49.22	49.82	48.66	44.80	46.09	46.98	47.20	47.46	47.78	47.11	47.53	48.71
7	49.22	49.85	48.95	44.77	46.15	46.94	47.20	47.52	47.70	47.18	47.48	48.63
8	49.13	49.84	49.00	44.78	46.30	46.83	47.16	47.43	47.66	47.26	47.49	48.54
9	49.14	49.86	48.62	44.75	46.30	46.88	47.10	47.46	47.68	47.19	47.52	48.42
10	49.16	49.90	48.78	44.80	46.18	46.91	47.16	47.56	47.74	47.15	47.59	48.25
11	49.23	49.88	48.48	44.84	46.26	46.98	47.20	47.60	47.74	47.19	47.63	48.05
12	49.28	49.79	48.32	45.00	46.54	47.04	47.24	47.53	47.68	47.23	47.63	47.85
13	49.24	49.34	48.56	45.24	46.34	47.10	47.30	47.58	47.62	47.26	47.70	47.65
14	49.24	49.90	48.51	45.28	46.24	47.12	47.28	47.58	47.57	47.23	47.81	47.45
15	49.25	49.93	48.25	45.22	46.46	47.10	47.18	47.54	47.49	47.19	47.90	47.52
16	49.31	49.96	47.95	45.31	46.44	46.98	47.20	47.48	47.47	47.20	47.94	47.53
17	49.46	49.86	47.82	45.38	46.38	46.81	47.22	47.60	47.48	47.23	47.96	47.56
18	49.56	49.79	47.74	45.54	46.55	46.84	47.11	47.74	47.44	47.26	48.02	47.61
19	49.55	49.78	47.35	45.72	46.66	47.03	47.10	47.76	47.42	47.30	48.05	47.63
20	49.51	49.72	47.09	45.70	46.82	47.02	47.20	47.74	47.38	47.36	48.69	47.68
21	49.48	49.62	46.92	45.54	46.88	47.07	47.26	47.72	47.37	47.39	48.15	47.59
22	49.52	49.50	46.73	45.62	46.72	47.29	47.26	47.75	47.33	47.34	48.21	47.70
23	49.54	49.40	46.56	45.65	46.55	47.30	46.97	47.65	47.33	47.32	48.30	47.85
24	49.52	49.44	46.34	45.80	46.59	47.06	46.84	47.64	47.27	47.30	48.38	47.91
25	49.57	49.56	46.20	45.90	46.74	47.24	47.02	47.68	47.20	47.29	48.42	47.92
26	49.65	49.50	46.02	45.95	46.96	47.30	47.18	47.63	47.24	47.27	48.44	47.84
27	49.71	49.39	45.83	45.86	46.99	47.10	47.28	47.74	47.28	47.37	48.42	47.80
28	49.71	49.24	45.65	46.02	46.74	47.06	47.30	47.83	47.24	47.46	48.36	47.80
29	49.67	49.10	45.52	46.10	---	47.16	47.34	47.76	47.20	47.50	48.36	47.82
30	49.63	49.14	45.53	46.08	---	47.10	47.38	47.72	47.20	47.49	48.40	47.86
31	49.69	---	45.43	46.12	---	46.95	---	47.72	---	47.50	48.44	---
MEAN	49.38	49.65	47.63	45.39	46.44	47.03	47.16	47.58	47.53	47.28	47.93	48.00
MAX	49.71	49.96	49.14	46.12	46.99	47.30	47.38	47.83	47.94	47.50	48.44	48.71
MIN	49.02	49.10	45.43	44.75	45.88	46.70	46.84	47.24	47.20	47.11	47.48	47.45
WTR YR 1983 MEAN 47.59 LOW 49.96 HIGH 44.75												

GROUND-WATER LEVELS

353

LOWNDES COUNTY

304949083165301 Local number, 19E9.

LOCATION.--Lat 30°49'49", long 83°16'53", Hydrologic Unit 03110202, N. Oak Street, one block north of intersection with U.S. Highway 84, Valdosta, Ga.

Owner: City of Valdosta.

AQUIFER.--Floridan aquifer system.

WELL CHARACTERISTICS.--Drilled unused municipal supply well, diameter 20 in., depth 342 ft, cased to 200 ft, open hole.

DATUM.--Altitude of land-surface datum is 217 ft, from topographic map.

Measuring point: Top of casing, 1.7 ft above land-surface datum.

REMARKS.--Well pumped July 18, 1978; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted April 11, 1963.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 112.69 ft below land-surface datum, March 9, 1964; lowest, 146.60 ft below land-surface datum, July 18, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131.94	138.09	135.53	131.32	123.51	123.48	121.08	120.30	126.05	125.91	129.11	133.38
2	131.64	137.73	135.79	130.78	128.61	124.07	120.39	120.82	125.60	125.76	128.70	132.54
3	131.37	133.61	135.53	130.97	127.93	123.93	121.12	120.86	126.03	125.37	128.90	131.83
4	131.69	137.83	135.66	131.15	127.52	123.58	121.25	121.68	126.31	124.96	126.51	131.80
5	132.07	136.89	135.27	131.24	127.16	123.80	121.42	121.75	125.71	125.66	128.29	131.02
6	132.69	135.77	134.91	130.67	126.52	123.30	122.24	121.98	125.63	126.30	123.80	130.81
7	133.27	135.54	134.74	130.20	126.86	122.91	122.04	122.21	124.86	126.47	128.73	131.26
8	132.94	135.65	134.85	129.80	127.30	123.00	121.76	122.17	125.22	126.27	128.58	131.38
9	133.03	135.96	134.80	129.33	126.95	123.34	122.20	122.35	125.13	126.67	128.64	133.95
10	133.02	137.00	134.13	128.72	126.83	123.46	121.27	122.55	125.12	126.35	128.94	134.81
11	133.00	136.71	133.56	129.09	126.50	122.63	121.76	123.43	125.01	126.75	129.25	133.81
12	133.39	136.59	133.16	129.35	126.13	122.00	121.73	122.95	124.87	127.31	129.07	133.87
13	134.34	136.88	133.07	129.58	125.56	121.85	122.14	123.20	125.39	128.95	129.20	133.04
14	134.24	135.95	132.88	129.91	125.74	122.13	122.08	123.31	125.45	129.09	129.19	132.37
15	134.39	136.18	133.61	129.26	126.13	121.85	121.13	122.94	125.86	128.48	129.10	131.88
16	135.11	136.39	133.25	128.86	126.00	121.88	121.13	123.17	125.85	129.10	128.86	131.52
17	134.92	136.83	132.36	129.32	126.23	121.95	120.55	123.76	126.21	129.57	129.57	131.83
18	135.19	136.58	133.10	131.68	125.54	121.63	120.25	124.00	126.82	130.15	129.29	131.80
19	135.67	136.60	132.49	130.02	124.95	121.29	120.70	124.03	126.60	131.07	129.55	132.14
20	136.60	135.51	132.61	129.71	124.75	120.96	121.19	124.12	126.37	132.25	130.05	131.99
21	136.62	135.69	132.73	131.40	124.56	120.81	120.45	124.30	126.09	131.77	130.32	132.06
22	136.28	135.59	133.05	130.89	124.23	121.41	120.40	124.16	126.94	132.41	130.66	132.11
23	136.29	135.54	132.79	128.54	124.85	121.89	120.44	124.33	126.61	131.91	131.61	131.74
24	136.16	136.22	133.06	128.60	124.33	120.90	119.89	124.41	126.14	130.57	133.39	131.76
25	136.32	135.50	132.94	127.96	124.71	121.17	120.08	124.91	126.16	129.80	133.10	131.89
26	136.71	135.22	132.59	129.02	124.34	121.15	119.96	124.56	125.51	130.34	132.70	132.31
27	137.51	135.40	133.05	128.55	123.57	120.86	120.91	124.58	125.59	130.03	132.91	131.36
28	137.33	134.81	132.23	128.05	123.47	121.24	120.48	124.53	126.35	129.57	133.31	132.62
29	137.25	134.86	132.25	128.37	---	121.23	120.39	124.16	126.25	129.69	132.88	131.86
30	137.78	134.87	131.63	128.11	---	121.59	120.61	124.27	125.73	129.59	133.39	132.64
31	137.50	---	131.70	128.37	---	121.22	---	125.06	---	129.64	134.13	---
MEAN	134.72	136.25	133.53	129.64	125.92	122.15	121.03	123.26	125.95	128.65	130.28	132.24
MAX	137.78	138.61	135.79	131.68	128.61	124.07	122.24	125.06	126.94	132.41	134.13	134.81
MIN	131.37	134.81	131.63	127.96	123.47	120.81	119.89	120.30	124.86	124.96	128.29	130.81

WTR YR 1983 MEAN 128.65 LOW 138.61 HIGH 119.89

GROUND-WATER LEVELS

MCINTOSH COUNTY

313826081152601 Local number, 35M13.

LOCATION.--Lat 31°38'26", long 81°15'26", Hydrologic Unit 03060204, 8.5 mi east of U.S. Highway 17 at Harris Neck Wildlife Refuge.

Owner: U.S. Department of the Interior, Fish and Wildlife Service.

AQUIFER.--Floridan aquifer system.

WELL CHARACTERISTICS.--Drilled unused supply well, diameter 10 in., depth 553 ft, cased to 376 ft, open hole.

DATUM.--Altitude of land-surface is 16.3 ft, National Geodetic Vertical Datum of 1929.

Measuring point: Floor of recorder shelter, 3.2 ft above land-surface datum.

REMARKS.--Well pumped August 3, 1978; water-quality sample collected at conclusion of pumping. Borehole geophysical survey conducted June 16, 1976.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.35 ft below land-surface datum, October 4, 1966; lowest, 20.45 ft below land-surface datum, December 19, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.65	17.60	17.75	17.13	16.18	15.85	15.85	16.08	16.05	16.46	16.83	16.63
2	17.58	17.50	17.80	16.93	16.05	16.10	15.75	16.10	16.15	16.49	16.82	16.55
3	17.52	17.45	17.73	16.95	16.35	16.23	16.00	16.03	16.14	16.52	16.79	16.68
4	17.52	17.35	17.70	17.03	16.65	16.25	15.15	16.00	16.20	16.56	16.71	16.76
5	17.60	17.75	17.60	16.94	16.55	16.18	16.15	16.03	16.21	16.46	16.62	16.72
6	17.65	17.70	17.75	16.99	16.20	16.15	16.12	16.15	16.13	16.37	16.60	16.75
7	17.55	17.65	17.80	16.94	16.35	16.12	16.15	16.12	16.08	16.31	16.54	16.83
8	17.52	17.65	17.75	16.85	16.47	16.00	15.05	16.00	16.02	16.24	16.50	16.86
9	17.50	17.70	17.75	16.69	16.37	15.03	16.00	15.95	15.88	16.24	16.37	16.92
10	17.43	17.80	17.70	16.64	16.05	16.00	16.08	15.97	15.91	16.26	16.42	16.96
11	17.45	17.75	17.55	16.60	16.12	16.05	16.00	16.00	15.93	16.30	16.62	17.03
12	17.47	17.70	17.50	16.90	16.40	16.05	15.90	15.96	15.92	16.38	16.59	17.06
13	17.46	17.65	17.63	16.80	15.90	16.00	15.92	15.89	16.04	16.44	16.65	17.06
14	17.54	17.65	17.70	16.75	15.35	16.00	15.88	16.00	16.05	16.46	16.52	17.12
15	17.54	17.73	17.65	16.65	16.16	15.88	15.90	15.96	16.10	16.44	16.58	17.00
16	17.55	17.65	17.65	16.68	16.05	15.50	15.95	15.98	16.07	16.46	16.56	16.95
17	17.60	17.55	17.71	16.63	16.00	15.30	15.93	15.96	16.19	16.50	16.52	17.09
18	17.75	17.58	17.76	16.65	16.10	15.40	15.95	15.92	16.24	16.53	16.58	17.19
19	17.75	17.60	17.63	16.75	15.13	15.30	15.83	16.01	16.26	16.62	16.66	17.17
20	17.72	17.60	17.82	16.35	16.23	15.90	15.95	16.10	16.24	16.76	16.64	17.12
21	17.70	17.65	17.73	16.10	16.17	15.75	16.00	16.14	16.24	16.79	16.62	17.11
22	17.65	17.60	17.74	16.33	15.94	16.32	16.00	16.03	16.20	16.74	16.66	17.14
23	17.50	17.60	17.67	16.30	16.00	16.15	15.65	16.01	16.19	16.64	16.76	17.18
24	17.46	17.85	17.70	16.48	15.95	15.85	15.75	15.98	16.24	16.57	16.73	17.20
25	17.65	17.90	17.80	16.50	15.90	16.00	15.88	15.96	16.28	16.55	16.76	17.18
26	17.75	17.90	17.73	16.45	16.10	16.03	15.92	15.90	16.32	16.49	16.74	17.06
27	17.75	17.90	17.60	16.25	16.00	15.90	16.00	15.99	16.42	16.52	16.73	17.06
28	17.65	17.70	17.47	16.20	15.68	16.08	16.02	15.98	16.48	16.59	16.70	17.02
29	17.60	17.65	17.35	16.27	---	16.05	16.10	15.90	16.46	16.60	16.66	16.96
30	17.60	17.75	17.20	16.15	---	15.95	16.10	15.94	16.46	16.66	16.64	17.00
31	17.65	---	17.15	16.25	---	15.32	---	15.98	---	16.76	16.61	---
MEAN	17.59	17.68	17.65	16.62	16.14	15.96	15.96	16.00	16.17	16.51	16.64	16.98
MAX	17.75	17.90	17.82	17.13	16.65	16.32	16.15	16.15	16.48	16.79	16.83	17.20
MIN	17.45	17.35	17.15	16.10	15.68	15.30	15.65	15.89	15.88	16.24	16.37	16.55

WTR YR 1983 MEAN 16.66 LOW 17.90 HIGH 15.30

355

310651084404501 Local number, 8G1.

LOCATION.--Lat 31°06'51", long 84°40'45", Hydrologic Unit 03130010, 1 mi northeast of Boykin, Ga.

Owner: Jack Fleet.

AQUIFER.--Floridan aquifer system.

WELL CHARACTERISTICS.--Drilled unused irrigation well, diameter 12 in., depth 255 ft, cased to 130 ft), open hole.

DATUM.--Altitude of land-surface datum is 150 ft, from topographic map.

Measuring point: Top front edge of recorder shelter, 3.0 ft above land-surface datum.

REMARKS.--None.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 13.62 ft below land-surface datum, February 16, 1983; lowest, 43.88 ft below land-surface datum, July 17, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30.28	34.32	35.98	20.04	19.33	15.22	16.57	14.82	20.07	21.32	28.90	34.32
2	30.50	34.39	36.03	19.32	18.85	15.38	16.48	14.94	20.18	21.17	28.38	33.10
3	30.20	34.43	36.03	17.18	18.25	15.53	16.43	15.03	20.88	21.04	28.23	32.82
4	30.35	34.56	36.03	16.47	17.58	15.64	16.49	15.22	21.48	20.94	28.15	32.80
5	30.53	34.73	36.05	16.14	17.03	15.76	16.55	15.38	20.97	20.88	28.10	32.62
6	30.86	34.72	35.76	16.10	16.70	15.54	16.63	15.78	20.94	20.95	28.10	32.60
7	30.92	34.73	35.32	16.18	16.67	15.16	16.68	16.04	20.96	21.76	28.12	32.68
8	30.98	34.75	34.95	16.34	16.70	14.95	16.70	15.92	20.86	23.20	28.25	32.75
9	31.14	34.80	34.48	16.55	16.73	14.55	16.75	16.02	20.66	23.85	28.48	32.87
10	31.30	34.86	34.04	16.32	16.78	14.77	16.60	16.34	20.48	23.08	29.50	33.23
11	31.50	34.86	33.40	17.08	17.00	14.80	16.33	16.43	20.32	22.85	30.75	33.35
12	32.06	34.88	32.00	17.40	17.20	14.85	16.06	16.47	20.17	23.20	30.85	33.38
13	32.33	35.02	29.62	17.72	17.25	14.94	15.86	16.62	20.73	23.47	30.95	33.16
14	32.14	35.07	27.23	17.95	15.96	15.07	15.72	16.74	21.14	24.90	30.40	32.85
15	32.20	35.17	25.62	18.24	14.24	15.16	15.45	16.83	20.74	25.95	31.45	32.46
16	32.34	35.22	24.94	18.55	13.62	15.24	15.02	16.98	21.23	24.83	32.92	32.10
17	32.54	35.20	24.80	18.86	13.68	15.34	14.65	17.18	21.67	24.36	32.33	31.85
18	32.68	35.30	24.93	19.22	13.65	15.53	14.43	17.35	22.40	24.40	32.48	31.78
19	32.80	35.57	24.87	19.55	13.74	15.70	14.45	17.50	22.15	25.20	32.76	31.75
20	32.94	35.58	25.12	19.80	13.87	15.75	14.50	17.63	22.17	26.22	34.35	31.75
21	33.08	35.53	25.40	20.06	13.96	15.92	14.60	17.78	22.12	26.90	34.17	31.78
22	33.27	35.65	25.73	20.34	14.04	16.08	14.68	17.95	21.96	27.64	32.56	31.95
23	33.35	35.68	25.94	20.57	14.20	16.24	14.63	18.08	21.77	27.55	31.92	32.05
24	33.44	35.77	26.20	20.82	14.38	16.15	14.68	18.56	21.84	27.34	31.90	32.10
25	33.53	35.84	26.57	21.00	14.64	16.40	14.60	18.53	21.53	27.58	31.75	32.15
26	33.77	35.82	26.86	21.12	14.35	16.46	14.46	18.65	21.50	29.08	31.96	32.17
27	33.94	35.30	27.10	21.16	14.95	16.48	14.38	19.33	21.48	28.50	33.06	32.20
28	34.04	35.74	27.28	21.13	15.02	16.55	14.51	19.65	21.48	28.37	33.10	32.35
29	34.08	35.81	26.92	20.66	---	16.55	14.60	20.37	21.48	28.37	33.04	32.55
30	34.16	35.93	25.14	20.20	---	16.44	14.70	20.37	21.50	29.70	33.97	32.75
31	34.26	---	22.44	19.78	---	16.60	---	19.95	---	29.70	34.04	---
MEAN	32.31	35.19	29.44	18.75	15.75	15.65	15.47	17.24	21.22	24.98	31.13	32.54
MAX	34.26	35.93	36.05	21.16	19.33	16.60	16.75	20.37	22.40	29.70	34.35	34.32
MIN	30.20	34.32	22.44	16.10	13.62	14.77	14.38	14.82	20.07	20.88	28.10	31.75

WTR YR 1983 MEAN 24.19 LOW 36.05 HIGH 13.62

GROUND-WATER LEVELS

RANDOLPH COUNTY

314602084473701 Local number, 7N1.

LOCATION.--Lat 31°46'02", long 84°47'37", Hydrologic Unit 03110204, south of intersection of College and Andrew Streets, near electric substation.

Owner: City of Cuthbert.

AQUIFER.--Clayton Limestone.

WELL CHARACTERISTICS.--Drilled unused municipal well, diameter 8 in., depth 372 ft, casing depth unknown.

DATUM.--Altitude of land-surface datum is 460 ft, from topographic map.

Measuring point: Floor of recorder shelter, 3.30 ft above land-surface datum.

REMARKS.--Well pumped and sounded June 22, 1978, to a depth of 372 ft; water-quality sample collected at conclusion of pumping. Well near city wells. Water levels for period of missing recorder record, January 7 to March 7, were estimated.

PERIOD OF RECORD.--January 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 132.0 ft below land-surface datum, December 10, 1967; lowest, 156.26 ft below land-surface datum, September 5, 1983.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150.66	149.01	147.62	147.03	147.17	144.39	145.27	145.49	149.47	148.84	151.11	155.47
2	150.49	148.79	147.03	146.70	147.04	144.17	145.13	145.80	149.89	150.03	151.60	155.00
3	150.46	148.53	147.23	147.28	147.63	143.79	145.00	145.46	150.24	149.16	152.34	153.79
4	150.70	148.52	146.95	147.73	147.50	143.86	145.61	145.58	150.07	149.15	152.42	155.36
5	150.67	148.57	146.89	147.85	147.46	143.97	145.49	145.91	149.22	151.79	152.19	156.26
6	150.21	148.19	147.37	147.68	147.26	143.93	145.60	146.27	149.71	152.62	152.32	153.54
7	149.75	147.95	147.40	147.98	147.42	143.95	146.13	146.31	149.99	152.36	150.14	154.22
8	149.98	150.17	147.40	148.25	147.72	144.18	144.47	145.91	149.85	149.58	151.64	154.35
9	150.28	148.87	147.40	147.96	147.16	145.62	143.71	146.33	148.95	149.25	152.51	154.35
10	149.94	148.39	147.17	147.92	146.26	145.70	144.40	146.15	149.03	148.84	152.54	154.37
11	150.82	148.11	146.98	148.43	146.37	146.42	145.25	146.04	149.02	150.01	151.96	153.67
12	149.87	148.33	146.59	148.44	146.62	145.59	145.58	146.54	148.39	150.33	151.98	154.40
13	149.42	147.89	147.72	148.16	145.70	145.13	145.53	147.44	150.09	151.82	152.09	152.91
14	149.49	147.49	147.95	148.42	145.65	145.25	145.24	149.39	150.37	151.75	151.61	155.00
15	147.27	147.87	147.54	148.30	146.26	145.40	144.51	149.14	151.78	150.72	152.87	154.80
16	148.63	148.04	147.63	147.65	145.34	145.32	145.39	146.24	152.64	150.05	153.48	153.54
17	148.44	148.13	147.44	147.27	145.38	143.55	145.31	146.57	151.76	150.72	153.53	153.40
18	149.69	147.80	147.42	147.39	145.32	143.44	145.12	146.58	151.52	151.43	153.60	152.76
19	149.61	147.90	147.08	147.92	145.33	144.13	145.38	147.26	151.41	151.34	153.89	152.56
20	149.13	148.06	147.62	147.62	145.05	144.48	145.57	146.69	151.96	151.46	153.95	153.09
21	148.89	147.34	147.67	147.52	144.94	145.20	145.46	146.62	151.11	151.27	151.95	152.93
22	149.00	148.44	147.57	147.59	144.78	145.70	145.51	146.37	150.05	151.50	151.62	155.21
23	148.11	148.35	147.43	147.06	144.83	145.70	144.63	147.06	150.48	150.51	153.42	153.41
24	147.34	148.10	147.47	146.77	145.05	145.14	144.68	147.08	150.41	150.73	153.18	152.34
25	143.74	147.89	147.25	147.00	145.47	145.73	145.58	147.35	148.73	152.60	152.88	151.71
26	143.79	147.95	147.16	147.05	145.83	145.43	145.54	147.55	149.84	152.71	153.33	152.05
27	148.76	147.47	147.28	147.35	145.53	144.78	145.45	147.34	150.13	152.18	153.81	151.88
28	148.56	147.20	147.76	148.08	144.67	145.20	145.47	147.92	148.64	151.69	154.01	152.16
29	148.92	147.43	147.52	147.99	---	145.64	145.65	147.88	150.13	153.08	154.87	152.04
30	148.53	143.21	147.19	147.04	---	145.78	145.79	148.60	149.11	152.83	155.90	151.89
31	148.19	---	147.19	146.90	---	145.66	---	148.14	---	150.96	156.11	---
MEAN	149.35	148.13	147.36	147.63	146.14	144.91	145.25	146.86	150.15	151.03	152.87	153.62
MAX	150.82	150.17	147.85	148.44	147.72	146.42	145.13	149.39	152.64	153.09	156.11	156.26
MIN	147.27	147.20	146.89	146.70	144.67	143.44	143.71	145.46	148.64	148.84	150.14	151.71

WTR YR 1983 MEAN 148.62 LOW 156.26 HIGH 143.44

SPALDING COUNTY

331507084171801 Local number, 11AAL.

LOCATION.--Lat 33°15'07", long 84°17'18", Hydrologic Unit 03070103, University of Georgia Experiment Station, Experiment, Ga.

Owner: University of Georgia.

AQUIFER.--Residuum.

WELL CHARACTERISTICS.--Dug unused water-table well, size 4 x 4 ft, depth 30 ft, open hole.

DATUM.--Altitude of land-surface datum is 960 ft, from topographic map.

Measuring point: Hole in floor of recorder shelter, 3.1 ft above land-surface datum.

REMARKS.--None.

PERIOD OF RECORD.--October 1943 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.26 ft below land-surface datum, March 19, 1948; lowest, 21.78 ft below land-surface datum, December 13, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.45	19.61	19.66	16.38	15.15	13.61	11.29	11.13	12.67	14.27	16.11	17.57
2	19.49	19.62	19.51	16.23	14.89	13.66	11.18	11.15	12.96	14.31	16.17	17.60
3	19.55	19.64	19.34	16.12	14.85	13.67	11.35	11.14	12.97	14.37	16.22	17.64
4	19.59	19.69	19.20	15.99	14.78	13.63	11.48	11.26	13.01	14.40	16.27	17.67
5	19.65	19.76	19.36	15.79	14.65	13.58	11.48	11.38	13.08	14.42	16.33	17.69
6	19.70	19.78	18.94	15.65	14.43	13.49	11.50	11.47	13.13	14.49	16.37	17.71
7	19.73	19.79	18.80	15.55	14.43	13.31	11.48	11.49	13.18	14.59	16.38	17.73
8	19.75	19.80	18.66	15.48	14.41	13.21	10.89	11.48	13.21	14.64	16.43	17.74
9	19.78	19.82	18.50	15.43	14.32	13.20	9.74	11.59	13.29	14.65	16.49	17.77
10	19.81	19.84	18.36	15.37	14.21	13.17	9.43	11.69	13.37	14.69	16.54	17.79
11	19.84	19.85	18.15	15.33	14.28	13.19	9.45	11.73	13.40	14.78	16.58	17.82
12	19.86	19.84	17.99	15.41	14.36	13.18	9.61	11.75	13.44	14.84	16.62	17.84
13	19.80	19.89	17.95	15.39	14.28	13.19	9.76	11.79	13.49	14.91	16.69	17.86
14	19.71	19.89	17.83	15.33	14.13	13.18	9.87	11.85	13.54	14.96	16.76	17.91
15	19.61	19.90	17.36	15.32	14.14	13.19	9.99	11.89	13.58	15.00	16.81	17.96
16	19.55	19.92	17.21	15.33	14.07	13.15	10.16	11.92	13.66	15.06	16.86	17.98
17	19.53	19.91	17.09	15.33	14.03	13.11	10.24	12.07	13.74	15.14	16.91	18.00
18	19.51	19.93	16.95	15.43	14.03	13.16	10.22	12.12	13.78	15.20	16.95	18.04
19	19.48	19.93	16.81	15.47	14.01	13.27	10.42	12.14	13.85	15.26	17.00	18.07
20	19.44	19.93	16.76	15.42	14.08	13.18	10.58	12.19	13.90	15.33	17.06	18.08
21	19.42	19.92	16.73	15.37	14.03	13.07	10.71	12.22	13.95	15.38	17.11	18.05
22	19.43	19.90	16.69	15.42	13.97	13.05	10.77	12.24	13.99	15.43	17.18	18.09
23	19.44	19.90	16.63	15.37	13.81	12.92	10.62	12.31	13.97	15.49	17.24	18.11
24	19.44	19.93	16.59	15.36	13.75	12.74	10.66	12.40	13.95	15.56	17.31	18.12
25	19.45	19.98	16.60	15.34	13.77	12.69	10.82	12.44	13.96	15.62	17.34	18.13
26	19.49	19.96	16.56	15.31	13.61	12.44	10.89	12.50	14.04	15.70	17.35	18.13
27	19.51	19.95	16.53	15.27	13.73	11.73	10.92	12.59	14.10	15.80	17.38	18.15
28	19.52	19.92	16.50	15.30	13.56	11.54	10.97	12.63	14.12	15.87	17.39	18.18
29	19.54	19.87	16.47	15.25	---	11.48	11.03	12.64	14.16	15.93	17.43	18.21
30	19.58	19.82	16.47	15.22	---	11.40	11.07	12.68	14.22	15.99	17.48	18.23
31	19.60	---	16.44	15.25	---	11.29	---	12.77	---	16.04	17.52	---
MEAN	19.59	19.85	17.61	15.49	14.21	12.92	10.62	11.96	13.60	15.10	16.85	17.93
MAX	19.86	19.98	19.66	16.38	15.15	13.67	11.50	12.77	14.22	16.04	17.52	18.23
MIN	19.42	19.61	16.44	15.22	13.56	11.29	9.43	11.13	12.57	14.27	16.11	17.57

WTR YR 1983 MEAN 15.49 LOW 19.98 HIGH 9.43

GROUND-WATER LEVELS

WAYNE COUNTY

313055081521901 Local number, 3111.

LOCATION.--Lat 31°30'55", long 81°52'19", Hydrologic Unit 03070106, about 6 mi south of Jesup near Penholoway Creek on Walker Creek.

Owner: Brunswick Pulp and Paper, Justice Mears 2.

AQUIFER.--Floridan aquifer system.

WELL CHARACTERISTICS.--Drilled unused oil test well, diameter 6 in., depth 691 ft, cased to 587 ft, open hole.

DATUM.--Altitude of land-surface datum is 55 ft, from topographic map.

Measuring point: Top of 6 in. casing at land-surface datum.

REMARKS.--Well pumped and water quality sampled, August 2, 1978.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 15.30 ft below land-surface datum, December 16, 1977; lowest, 29.23 ft below land-surface datum, June 29, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.58	24.98	23.30	17.48	21.02	21.98	21.60	21.34	22.28	21.26	22.01	23.67
2	24.60	24.92	23.26	17.32	20.35	22.13	21.58	21.33	22.24	21.36	22.04	23.72
3	24.67	24.88	23.21	17.25	20.94	22.19	21.66	21.76	22.14	21.46	22.07	23.84
4	24.70	24.92	23.09	17.43	21.18	22.16	21.36	21.74	21.96	21.46	22.11	23.99
5	24.77	25.09	22.94	17.80	21.25	22.14	21.92	21.81	21.79	21.42	22.16	23.60
6	24.32	25.19	22.95	18.19	21.07	22.10	21.90	21.76	21.66	21.33	22.13	22.63
7	24.82	25.20	23.02	18.57	21.18	22.08	21.91	21.31	21.52	21.38	22.07	21.93
8	24.77	25.17	23.06	18.88	21.41	22.02	21.84	21.32	21.46	21.46	22.06	21.60
9	24.73	25.23	22.92	19.10	21.54	22.11	21.76	21.37	21.50	21.40	22.23	21.10
10	24.74	25.28	22.60	19.30	21.70	22.12	21.77	22.04	21.58	21.34	22.45	20.69
11	24.76	25.26	22.06	19.46	21.51	22.10	21.72	22.08	21.56	21.42	22.59	20.31
12	24.82	25.17	21.58	19.75	21.79	22.15	21.82	22.01	21.48	21.46	22.62	19.93
13	24.77	25.22	21.60	20.05	21.72	22.23	21.89	21.98	21.42	21.49	22.94	20.03
14	24.73	25.24	21.25	20.12	21.66	22.32	21.58	21.97	21.39	21.48	22.76	20.46
15	24.75	25.14	20.66	20.11	21.91	22.28	21.78	22.01	21.30	21.52	22.89	20.97
16	24.74	24.94	20.12	20.20	21.96	22.12	21.75	21.92	21.28	21.58	22.99	21.31
17	24.91	24.62	19.80	20.27	21.94	21.92	21.75	22.05	21.30	21.62	23.10	21.54
18	25.06	24.36	19.56	20.48	22.06	21.91	21.62	22.26	21.24	21.71	23.13	21.76
19	25.07	24.18	19.20	20.19	22.12	22.07	21.62	22.31	21.20	21.80	23.26	21.97
20	25.05	24.03	18.96	20.64	22.26	21.97	21.70	22.22	21.19	21.90	23.31	22.02
21	24.98	23.91	18.82	20.46	22.24	21.89	21.68	22.20	21.15	21.94	23.25	21.85
22	25.02	23.79	18.70	20.60	21.94	21.90	21.63	22.16	21.17	21.92	23.27	21.99
23	25.02	23.68	18.51	20.68	21.78	21.70	21.33	22.22	21.24	21.82	23.34	20.17
24	24.98	23.73	18.31	20.96	21.88	21.34	21.22	22.26	21.25	21.78	23.52	22.27
25	25.04	23.93	18.20	21.12	22.04	21.39	21.46	22.33	21.20	21.79	23.54	22.29
26	25.12	23.74	18.04	21.16	22.24	21.35	21.62	22.33	21.29	21.80	23.55	22.23
27	25.15	23.58	17.88	21.07	22.22	21.16	21.71	22.45	21.37	21.90	23.55	22.36
28	25.07	23.42	17.73	21.20	21.99	21.20	21.77	22.56	21.27	22.02	23.47	22.32
29	24.94	23.31	17.62	21.22	---	21.93	21.83	22.52	21.15	22.02	23.48	22.30
30	24.98	23.32	17.66	21.12	---	21.32	21.62	22.44	21.21	21.99	23.54	22.33
31	25.02	---	17.58	21.13	---	21.50	---	22.30	---	21.98	23.62	---
MEAN	24.88	24.51	20.46	19.73	21.69	21.90	21.71	22.09	21.46	21.64	22.86	21.97
MAX	25.15	25.28	23.30	21.22	22.26	22.32	21.92	22.56	22.28	22.02	23.62	23.99
MIN	24.58	23.31	17.58	17.25	20.35	21.16	21.22	21.74	21.15	21.26	22.01	19.93

WTR YR 1983 MEAN 22.08 LOW 25.28 HIGH 17.25

359

313701081543501 Local number, 30L3.

Qumran. Master. Lebanon.

Owner: Homer Johnson.

AQUIFER.--Floridan aquifer system.

WELL CHARACTERISTICS.--Drilled unused domestic well, diameter 4 in., depth 584 ft, cased to 472 ft, open hole.

DATUM.--Altitude of land-surface datum is 107 ft, from topographic map.

Measuring point: Floor of recorder shelter, 2.88 ft above land-surface datum.

REMARKS.--Borehole geophysical survey conducted August 19, 1963. Water levels for period of missing recorder record, December 26 to January 3, were estimated.

PERIOD OF RECORD.--January 1964 to March 1967. February 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 59.98 ft below land-surface datum, April 19, 1964; lowest 85.27 ft below land-surface datum, June 29, 1981.

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80.32	80.71	77.90	70.93	75.83	77.35	77.02	77.44	77.46	76.02	76.75	79.16
2	80.32	80.64	77.34	70.82	75.55	77.46	77.04	77.45	77.34	76.20	76.85	79.24
3	80.43	80.64	77.30	70.80	75.59	77.52	77.10	77.43	77.10	76.30	76.97	79.39
4	80.48	80.68	77.67	71.03	75.88	77.52	77.34	77.44	76.23	76.28	77.01	79.45
5	80.50	80.66	77.49	71.51	76.00	77.44	77.26	77.30	76.56	76.24	77.04	78.63
6	80.62	80.95	77.44	72.16	75.86	77.54	77.36	77.16	76.37	76.03	77.02	77.38
7	80.62	80.94	77.52	72.76	76.04	77.76	77.39	77.34	76.18	76.00	76.94	76.25
8	80.58	80.94	77.52	73.16	76.38	77.82	77.31	77.41	76.09	76.13	76.94	75.43
9	80.54	81.02	77.32	73.42	76.56	77.88	77.19	77.53	76.16	76.12	77.26	74.84
10	80.50	81.04	76.75	73.70	76.56	77.78	77.14	77.69	76.24	76.04	77.63	74.37
11	80.58	81.03	76.01	73.93	76.50	77.60	77.10	77.69	76.28	76.12	77.80	73.82
12	80.64	80.94	75.54	74.26	76.90	77.80	77.26	77.58	76.16	76.16	77.81	73.58
13	80.54	80.99	75.44	74.58	76.98	77.94	77.44	77.54	76.06	76.18	77.84	73.85
14	80.47	80.99	74.91	74.68	76.91	78.00	77.46	77.56	76.02	76.18	77.99	74.65
15	80.49	80.67	74.13	74.69	77.24	77.88	77.34	77.70	75.92	76.15	78.16	75.25
16	80.39	80.16	73.56	74.80	77.34	77.69	77.24	77.67	75.86	76.22	78.32	75.64
17	80.60	79.63	73.18	74.92	77.33	77.42	77.28	77.79	75.80	76.36	78.56	76.00
18	80.60	79.22	72.35	75.18	77.40	77.36	77.15	77.99	75.75	76.47	78.51	76.32
19	80.55	78.92	72.45	75.36	77.42	77.50	77.15	77.86	75.70	76.60	78.65	76.53
20	80.78	78.72	72.14	75.30	77.58	77.34	77.19	77.73	75.66	76.69	78.66	76.50
21	80.80	78.66	71.96	75.13	77.45	77.10	77.11	77.72	75.61	76.76	78.59	76.33
22	80.82	78.58	71.78	75.34	77.02	76.84	77.06	77.73	75.70	76.74	78.43	76.37
23	80.75	78.48	71.55	75.61	76.99	76.54	76.77	77.76	75.83	76.62	78.62	76.67
24	80.71	78.47	71.35	75.88	77.20	76.20	76.70	77.82	75.92	76.56	78.85	76.80
25	80.72	78.55	71.29	76.03	77.32	76.13	76.98	77.86	75.90	76.58	78.92	76.85
26	80.36	78.44	71.15	76.10	77.52	76.16	77.16	77.90	75.97	76.58	78.92	76.95
27	80.50	78.26	71.07	76.02	77.54	75.77	77.26	78.00	76.03	76.76	78.90	76.95
28	80.62	78.11	70.97	76.08	77.35	76.12	77.57	78.07	75.82	76.78	78.84	76.95
29	80.44	77.99	70.91	76.04	---	76.53	77.39	78.06	75.64	76.75	78.83	76.95
30	80.64	77.96	71.01	75.88	---	76.80	77.34	77.92	75.84	76.70	78.99	76.96
31	80.70	---	70.98	75.88	---	76.8						

GROUND-WATER LEVELS

WORTH COUNTY

313146083491601 Local number, 15L20.

LOCATION.--Lat 31°31'46", long 83°49'16", Hydrologic Unit 03110204, near water tank, behind VFW on U.S. Highway 82 east, Sylvester, Ga.

Owner: City of Sylvester.

AQUIFER.--Floridan aquifer system.

WELL CHARACTERISTICS.--Drilled unused municipal well, diameter 18 in., depth 450 ft, cased to 212 ft, open hole.

DATUM.--Altitude of land-surface datum is 433 ft, from topographic map.

Measuring point: Floor of recorder shelter, 2.90 ft above land-surface datum.

REMARKS.--Well pumped and sounded July 19, 1978. Borehole geophysical survey conducted June 5, 1975.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 191.50 ft below land-surface datum, May 17, 1973; lowest, 201.59 ft below land-surface datum, July 31, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	199.74	199.93	198.75	198.69	193.09	197.81	197.42	197.34	197.33	197.94	198.88	199.20
2	199.68	193.36	198.92	198.49	197.92	197.93	197.20	197.26	197.53	197.95	198.91	199.20
3	198.71	198.76	198.80	198.57	198.19	198.00	197.33	197.14	197.56	197.96	198.85	199.20
4	198.74	198.73	198.70	198.75	198.43	197.95	197.49	197.17	197.55	197.95	198.82	199.30
5	198.81	198.99	198.59	198.71	198.39	197.73	197.51	197.27	197.56	197.86	198.81	199.30
6	198.85	199.05	198.73	198.65	198.09	197.75	197.50	197.37	197.58	197.88	198.75	199.30
7	198.83	199.05	198.89	198.56	198.23	197.67	197.44	197.36	197.53	197.94	198.63	199.30
8	198.75	199.02	198.99	198.47	198.35	197.62	197.31	197.25	197.54	198.00	198.60	199.30
9	198.70	199.02	198.94	198.38	198.26	197.87	197.27	197.32	197.53	197.93	198.64	199.30
10	198.70	199.05	198.34	198.33	197.98	197.69	197.37	197.43	197.75	197.85	198.70	199.30
11	198.78	198.99	198.52	198.28	198.17	197.73	197.36	197.44	197.77	197.90	198.65	199.30
12	198.82	198.95	198.46	198.41	198.38	197.74	197.39	197.38	197.74	197.98	198.56	199.20
13	198.77	198.92	198.80	198.51	197.95	197.72	197.37	197.37	197.72	198.08	198.56	199.10
14	198.79	198.93	198.88	198.45	198.01	197.68	197.27	197.36	197.71	198.10	198.69	199.10
15	198.79	198.94	198.74	198.29	198.12	197.53	197.25	197.30	197.67	198.10	198.79	199.20
16	198.77	198.98	198.67	198.29	198.00	197.28	197.33	197.27	197.71	198.16	198.80	199.20
17	198.91	198.88	198.71	198.24	198.02	197.06	197.26	197.45	197.80	198.24	198.78	199.20
18	198.99	198.83	198.72	198.37	198.11	197.33	197.04	197.52	197.84	198.28	198.76	199.20
19	198.98	198.87	198.57	198.50	198.14	197.51	197.12	197.55	197.89	198.34	198.76	199.20
20	198.91	198.88	198.62	198.35	198.30	197.33	197.23	197.55	197.92	198.42	198.73	199.20
21	198.85	198.86	198.70	198.15	198.24	197.46	197.29	197.48	197.92	198.50	198.80	199.00
22	198.85	198.78	198.78	198.25	197.94	197.73	197.19	197.38	197.91	198.50	198.88	199.10
23	198.86	198.71	198.76	198.27	197.88	197.72	197.30	197.30	197.97	198.52	198.93	199.20
24	198.87	198.81	198.71	198.39	197.85	197.42	196.99	197.29	197.94	198.52	199.00	199.30
25	198.90	199.02	198.80	198.43	197.98	197.70	197.26	197.27	197.89	198.55	199.03	199.20
26	198.98	199.02	198.80	198.40	198.17	197.74	197.36	197.23	197.94	198.59	199.03	199.20
27	199.07	198.90	198.74	198.27	198.04	197.49	197.39	197.29	197.98	198.70	199.02	199.10
28	199.09	198.73	198.64	198.41	197.65	197.59	197.38	197.31	197.96	198.80	198.97	199.00
29	199.09	198.64	198.56	198.39	---	197.74	197.38	197.25	197.92	198.86	198.91	199.01
30	199.12	198.74	198.65	198.31	---	197.66	197.36	197.16	197.93	198.87	199.00	199.01
31	199.11	---	198.72	198.33	---	197.45	---	197.19	---	198.87	199.10	---
MEAN	198.87	198.89	198.73	198.42	198.10	197.63	197.30	197.33	197.76	198.26	198.82	199.19
MAX	199.12	199.05	198.99	198.75	198.43	198.00	197.51	197.55	197.98	198.87	199.10	199.30
MIN	198.68	198.64	198.46	198.15	197.65	197.06	196.80	197.14	197.33	197.85	198.56	199.00

WTR YR 1983 MEAN 198.26 LOW 199.30 HIGH 196.80

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

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

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

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